California Energy Commission Alternative and Renewable Fuel and Vehicle Technology Program FINAL PROJECT REPORT

Central Coast Go-Zero: Zero Emission Vehicle Readiness Implementation Plan

Encompassing the Counties of: San Luis Obispo, Santa Barbara, and Ventura Prepared for: California Energy Commission

Prepared by: San Luis Obispo County Air Pollution Control District



Air Pollution Control District San Luis Obispo County

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PREFACE

Assembly Bill (AB) 118 (Nùñez, Chapter 750, Statutes of 2007), created the Alternative and Renewable Fuel and Vehicle Technology Program (ARFVTP). The statute authorizes the California Energy Commission (Energy Commission) to develop and deploy alternative and renewable fuels and advanced transportation technologies to help attain the state's climate change policies. AB 8 (Perea, Chapter 401, Statutes of 2013) reauthorizes the ARFVTP through January 1, 2024, and specifies that the Energy Commission allocate up to \$20 million per year (or up to 20 percent of each fiscal year's funds) in funding for hydrogen station development until at least 100 stations are operational.

The ARFVTP has an annual budget of approximately \$100 million and provides financial support for projects that:

- Reduce California's use and dependence on petroleum transportation fuels and increase the use of alternative and renewable fuels and advanced vehicle technologies.
- Produce sustainable alternative and renewable low-carbon fuels in California.
- Expand alternative fueling infrastructure and fueling stations.
- Improve the efficiency, performance and market viability of alternative light-, medium-, and heavy-duty vehicle technologies.
- Retrofit medium- and heavy-duty on-road and non-road vehicle fleets to alternative technologies or fuel use.
- Expand the alternative fueling infrastructure available to existing fleets, public transit, and transportation corridors.
- Establish workforce training programs and conduct public outreach on the benefits of alternative transportation fuels and vehicle technologies.

To be eligible for funding under the ARFVTP, a project must be consistent with the Energy Commission's ARFVTP Investment Plan, updated annually. The Energy Commission issued GFO-16-601 to fund projects that support new and existing planning efforts for zero-emission vehicles (battery-electric vehicles and hydrogen fuel cell electric vehicles and including plug-in hybrid electric vehicles). In response to GFO-16-601, the recipient submitted an application which was proposed for funding in the Energy Commission's Notice of Proposed Awards January 12, 2017 and the agreement was executed as ARV-16-015 on May 5th, 2017.

ABSTRACT

This report is a zero-emission readiness implementation plan prepared for the Tri-Counties region of San Luis Obispo, Santa Barbara, and Ventura. This plan aims to tackle the challenge of how best to accelerate regional zero-emission vehicle (ZEV) adoption and infrastructure deployment in the Tri-Counties region. The plan illustrates the approach, outcome, challenges, lessons learned and next steps of each task.

To implement zero-emission readiness in the Tri-Counties, the plan first describes the steps of establishing a ZEV Ombudsman to work with local and regional agencies, infrastructure service providers, site hosts, and consumers to implement and increase adoption of ZEVs. Using mobile device and other key data sources, the plan then describes how to identify key strategic siting opportunities for EV charging stations as well as priority sites for each of the three counties and priority sites in disadvantaged and low-income communities. Concurrently, to accelerate deployment of electrifying fleets, the plan describes the process of reaching out to major fleets to explain the benefits of electrifying trucks, buses and light-duty vehicles. Using the identified strategic siting analysis and recognizing the most interested fleets, the plan then explains how to coordinate EVSE site assessments to begin the process of installing EV charging stations. To promote zero emission transportation awareness to key demographics and stakeholders, the plan describes engagement tactics such as green car shows for both EVs and hydrogen vehicles, community and EV charging installation workshops. Also, the plan focuses on increasing competency to first responders in the case of fuel cell electric vehicles (FCEVs) accidents as well as assess local hydrogen fueling station infrastructure.

Keywords: California Energy Commission, Central Coast, San Luis Obispo County, Santa Barbara County, Ventura County, Zero-Emission Vehicle, Plug-in Electric Vehicles, Fuel Cell Electric Vehicles, Electric Vehicle Supply Equipment, Low-Income Communities, Disadvantaged Communities, First Responders, Hydrogen Infrastructure

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TABLE OF CONTENTS

Acknowledgements	i
Preface	ii
Abstract	iii
Table of Contents	iv
List of Figures	vii
List of Tables	viii
List of Abbreviations	ix
Executive Summary	
CHAPTER 1: Introduction	
Project Objectives and Supporting Contractors	
CHAPTER 2: ZEV Ombudsman & Electric Drive 805	
Approach	
Electric Drive 805 Rebranding	
ZEV Resource Clearing House	
Utility EVSE Incentive Programs	
EV Charging Demand Surveys	
Identifying New Local & Regional ZEV Incentive Opportunities	
AB 1236 Implementation Tracking & Support	
Outcomes	
Challenges	
Lessons Learned	
Next Steps	
-	
CHAPTER 3: Strategic EVSE Siting Analysis	
Approach	
Step 1: Data Collection and Collation	
Step 2: Traffic Analysis Zone Development	
Step 3: Develop List of Travel Behavior Metrics	
Step 4: Develop Weighted Scoring Criteria	
Step 5: Develop Final Scores for Each Use Case	
Outcome	
Regional Combined Use Score of Four Use Cases	
Top 30 Rankings for Each County	50
Top 5 Low-Income or Disadvantaged Community Rankings for Each County	51

Challenges	52
Lessons Learned	53
Next Steps	54
CHAPTER 4: Electric Vehicle Fleet Accelerator	56
Approach and Outcome	
Fleet Outreach	
Presentations	
Fleet Transition Plans	
Site Identification	
Challenges	59
Overcoming Barriers to Fleet Electrification	
Lessons Learned and Next Steps	
Public versus private fleets	
School Bus, Transit, Paratransit and County Fleets should be prioritized	
Workplace charging for the "employee fleet"	
CHAPTER 5: EVSE Site Assessments	
Approach	66
Outcome	
Challenges	73
Lessons Learned	
Next Steps	
CHAPTER 6: Zero Emission Vehicle Awareness	81
Approach	
General Community Outreach	
Targeted Community Engagement	
Direct Stakeholder Engagement	
Multilingual Outreach Material Development	
Outcomes	87
ZEV Green Car Showcases, Test Drives, and Workshops	
Challenges	
Lessons Learned	
Next Steps	
CHAPTER 7: ZEV Safety Training for First Responders	
Approach	
Hydrogen Safety Emergency Response Manuals	
Safety Trainings – Initial Approach	
Safety Trainings – Revised Approach	
Outcome	

Hydrogen Safety Emergency Response Manuals	
Safety Training - San Luis Obispo	
Safety Training – Santa Barbara	
Lessons Learned	102
Next Steps	103
CHAPTER 8: Hydrogen Readiness Station Siting	104
Approach	104
Outcome	107
Lessons Learned	
Next Steps	107
References and Resources	109
APPENDIX A-1: Project Tasks & Products with Supporting Contractors	
APPENDIX B-1: IOU EVSE Programs	114
Rebates and Incentives	114
Rates	
Charging Infrastructure	115
Vehicle-Grid Integration	117
Pilot Programs	117
Regulatory History	118
Resources	119
APPENDIX B-2: ZEV Resources	121
EVSE Service Providers List	121
EV Charging Demand Surveys	121
APPENDIX B-3: AB 1236 Implementation	122
AB 1236 Local Government Implementation Matrix	123
AB 1236 Implementation Resources	123
Full AB 1236 Legislative Text	
AB 1236 Legislative Intent	
AB 1236 Key Requirements	
AB 1236 Definitions	
Other Relevant Legislation	126
APPENDIX C-1: Task 3 Results and Technical Memorandum	127
APPENDIX C-2: PG&E Fast Charger Information	128
APPENDIX D-1: Summary of Task 4 Key Conclusions	129
Project Purpose	129
Overcoming Barriers to Fleet Electrification	
Impact of Model Availability	

Lessons Learned and Next Steps	130
APPENDIX D-2: Fleet Sheet Copy	132
APPENDIX E-1: Expanded Table of Completed Site Assessments	133
APPENDIX E-2: SLO County Hospital Permit-Ready Documents	134
APPENDIX E-3: EVSE Accessibility Requirements	135
APPENDIX F-1: Summary of Task 6 Outreach Activities	136
APPENDIX F-2: Multilingual Outreach Materials	137
APPENDIX F-3: Sample Workshop Presentation	138
APPENDIX F-4: Direct Stakeholder Engagement Impact by City & County	139
APPENDIX G-1: Compiled Emergency Response Manuals	140
APPENDIX G-2: Training Materials Used and Course Reports	141
APPENDIX H: List of Interested Station Owners and Installers Expressing Interest of	
Hydrogen Infrastructure	142

LIST OF FIGURES

Figure 1: Electric Drive 805 Brand Logo and Tagline
Figure 2: 2018 EVSE Siting Analysis for Travelers
Figure 3: 2018 EVSE Siting Analysis for Travelers – Zone 117
Figure 4: 2018 EVSE Siting Analysis for Travelers – PG&E Substation Attribute
Figure 5: 2018 EVSE Siting Analysis for Combined Use Score
Figure 6: 2018 EVSE Siting Analysis for Travelers by County Rankings
Figure 7: 2018 EVSE Analysis for Renters - Top 5 Low-Income or Disadvantaged Community Zones by County Rankings
Figure 8: Effects of Spatial Resolution
Figure 9: Location of Site Assessments and Low-Income and Disadvantaged Communities
Figure 10: Location of Site Assessments and Tri-County Top 25 Scoring Zones from Task 3 EVSE Siting Analysis
Figure 11: Location of Site Assessments and County Specific Top Scoring Zones from Task 3 EVSE Siting Analysis

Figure 12: Typical ADA-Compliant Electric Vehicle Charging Parking Space	. 78
Figure 13: 2018 Ventura 4 th of July Street Fair ZEV Showcase	. 89
Figure 14: Hydrogen Ride and Drive at SLOCPACD	. 90
Figure 15: Electric Bus Workshop and Ride and Drive	. 91
Figure 16: Earth Day San Luis Obispo 2018 -Solar Car	. 92
Figure 17: UC Santa Barbara Facilities Management Workshop and ZEV Showcase	. 93

LIST OF TABLES

Table 1: Project Objectives and Supporting Contractors	. 17
Table 2: Mobile Device Data Advantaged and Limitations	. 33
Table 3: Key Assumptions for EVSE Siting Analysis	. 36
Table 4: Weighted Scoring	. 43
Table 5: Level 2 and Fast Charger Site Lists	. 59
Table 6: Completed EVSE Site Assessment Locations	. 67
Table 7: Minimum Requirements for Accessible EV Charging Station Spaces	. 71
Table 8: 2016 California Building Code EVSE Accessibility Requirement Sections	. 73
Table 9: Multilingual Outreach Materials	. 87
Table 10: Summary of ZEV Awareness Events	. 88

LIST OF ABBREVIATIONS

- AB Assembly Bill
- ADA Americans with Disabilities Act
- AFDC US Department of Energy's Alternative Fuels Data Center
- AIChE American Institute of Chemical Engineers
- ARFVTP Alternative and Renewable Fuel and Vehicle Technology Program
- BEV Battery Electric Vehicle
- CaFCP California Fuel Cell Partnership
- CALeVIP California Electric Vehicle Infrastructure Project
- CAUSE Central Coast Alliance United for a Sustainable Economy
- CEC Community Environmental Council
- CPA Clean Power Alliance
- CSE Center for Sustainable Energy
- CVAP Clean Vehicle Assistance Program
- CVC- California Vehicle Codes
- CVRP Clean Vehicle Rebate Program
- DAC Disadvantaged Community
- DCFC Direct Current Fast Charger
- DOE U.S. Department of Energy
- Energy Commission California Energy Commission
- EPIC Electric Program Investment Charge
- **ERM Emergency Response Manuals**
- EV Electric Vehicle
- EVSE Electric Vehicle Supply Equipment
- FCEV Fuel Cell Electric Vehicle
- FERC Federal Energy Regulatory Commission
- GHG Greenhouse Gases
- GOBiz- California Governor's Office of Business and Economic Development
- HVIP Hybrid and Zero-Emission Truck and Bus Voucher Incentive Project

- ICT Innovative Clean Transit
- IOU investor owned utility
- L2 Charger Level 2 Charger
- LCFS Low Carbon Fuel Standard
- LIC Low-income Community
- MBCP Monterey Bay Community Power
- MICOP Mixteco/Indígena Community Organizing Project
- MUD multi-dwelling unit
- MUTCD Manual on Uniform Traffic Control Devices
- OEHHA California Office of Environmental Health Hazard Assessment
- OEM Original Equipment Manufactures
- PG&E Pacific Gas and Electric
- PHEV- Plug-in hybrid electric vehicle
- PIA Plug-in America
- SB Senate Bill
- SBCAPCD Santa Barbara County Air Pollution Control District
- SBCAG Santa Barbara County Association of Governments
- SLOCAPCD San Luis Obispo County Air Pollution Control District
- SLOCOG San Luis Obispo Council of Governments
- SoCal Edison Southern California Edison
- TAZ Traffic Analysis Zone
- THRP Tri-Counties Hydrogen Readiness Plan
- V2G Vehicle to Grid
- VCAPCD Ventura County Air Pollution Control District
- VCREA Ventura County Regional Energy Alliance
- VCTC- Ventura County Transportation Commission
- VGI vehicle-grid integration
- ZEV zero emission vehicle

EXECUTIVE SUMMARY

The goal of this Plan is to implement and build upon key recommendations from the Electric Vehicle Readiness Plan for Ventura, Santa Barbara, and San Luis Obispo Counties (CEC-ARV-11-002 - completed 2014), the Alternative Fuel Vehicle Readiness Plan (CEC-ARV-13-017 completed 2016), and the Hydrogen Readiness Plan (CEC-ARV-14-038 – completed in 2017) to accelerate the region's deployment of zero emission vehicle (ZEV) infrastructure and expand the regional adoption of ZEVs among both consumers and fleet operators. Key implementation tasks for this project include: (1) creation of a ZEV ombudsman position; (2) analysis of strategic EVSE siting opportunities using mobile device data; (3) acceleration of medium- and heavy-duty ZEV adoption by regional fleet operators; (4) coordination of site assessments for EV charging stations; (5) promotion of increased ZEV awareness through test-drive events, demonstrations, workshops, and green car shows; (6) ZEV safety training for first responders; and (7) site assessments for hydrogen refueling stations. The project activities placed special emphasis on disadvantaged communities, as defined by CalEPA's CalEnviroScreen3.0, and lowincome communities, as defined by Assembly Bill 1550. This emphasis was to support a more equitable distribution of ZEV adoption, infrastructure development, and benefits from increased all-electric vehicle travel in the region.

The California Southern Central Coast region includes San Luis Obispo, Santa Barbara, and Ventura counties, heretofore referred to as the Tri-Counties. The San Luis Obispo County Air Pollution Control District was the project manager responsible for completing this Plan. Subcontractors that were responsible for completing the activities listed above included Community Environmental Council, Santa Barbara County APCD, Ventura County APCD, Fehr and Peers, EV Alliance, ABM Inc., the Central Coast Clean Cities Coalition, and Ivor John & Associates.

The funding for this Plan was awarded by the California Energy Commission to help meet California greenhouse gas emissions reduction targets specified under Senate Bill 32 and meet state goals of having 1.5 million ZEVs on California's roads by 2025 and 5 million by 2030. In recent years, ZEVs have become common kitchen table conversation topics and have become a reliable and realistic transportation option with about 45 light-duty models, 30 medium and heavy-duty van and truck, and 55 transit and school bus models. Major vehicle manufactures, such as Toyota, BMW, Ford, General Motors, and Volvo have declared an end to the creation of vehicles powered by combustion engines and will migrate to electric only models.

While this Plan was prepared for the Tri-Counties region, the identified approach, outcomes, challenges, lessons learned, and next steps for each task listed above are transferable to other areas of California and beyond. The Plan aims to tackle the challenge of how best to accelerate infrastructure deployment and ZEV adoption in the Tri-Counties region.

To achieve these overarching goals, the following details the activities within the Plan:

- In the ZEV Ombudsman role, CEC served as the main point of contact for ZEV stakeholders and helped the SLOCAPCD coordinate ZEV implementation activities for the Plan. The role of the ZEV Ombudsman was to work with local governments, Metropolitan Planning Organizations, Air Pollution Control Districts, ZEV infrastructure service providers, site hosts, and ZEV consumers to map out a plan for expanded ZEV infrastructure implementation and increase ZEV use in the region. The ZEV Ombudsman also facilitated and guided the process to rebrand Plug-in Central Coast, the region's existing plug-in electric vehicle collaborative, to Electric Drive 805 (named for the 805-area code), which included design and development of the Electric Drive 805 website. The website has multilingual information for drivers, workplaces and employers, property managers, and local governments in the region.
- With the help of the mobility data company Streetlight Data, Fehr and Peers conducted a strategic EVSE siting analysis using anonymized mobile device data to identify 25 key areas for deployment of electric vehicle (EV) charging stations, including priority sites for each of the three Counties, and in disadvantaged or low-income communities. The results are displayed online in a user-friendly mapping format and are available for all to view on the SLOCAPCD's webpage: slocleanair.org/community/zev.php.
- To accelerate fleet electrification, EV Alliance reached out to many employers with fleets in the Tri-Counties area to encourage electrification and explain the benefits of electrifying trucks, buses and light-duty vehicles. The outreach efforts resulted in increased awareness and understanding and aided another objective of this grant – conducting site assessments for EVSE.
- Using the identified strategic siting analysis and recognizing the most interested fleets, the project team coordinated 18 EVSE site assessments for EV chargers for various businesses and entities including school districts, government agencies and private businesses. Nine of these assessments were located in low-income (or would serve low-income) or disadvantaged communities. Five recipients of a site assessment moved forward and applied for air district funding and are on their way to installing an EV charger.
- The ZEV Ombudsman and the Central Coast Clean Cities Coalition (C5) increased ZEV awareness among key demographics and stakeholders by displaying green cars at showcases, conducting test drives, and hosting workshops which focus on the benefits of ZEVs and the process of installing chargers. Outreach activities focused on general community outreach, targeted community engagement and direct stakeholder engagement. The activities elevated the general awareness of ZEVs in the Tri-Counties region.
- Ivor John & Associates hosted two trainings in San Luis Obispo and Santa Barbara County to inform first responders on how best to respond to accidents involving hydrogen fuel cell electric vehicles (FCEVs). The team worked to ensure the trainings for first responders would be delivered using stat-of-the-art resources by compiling emergency response manuals and materials from the U.S. Department of Energy (DOE)

Pacific Northwest National Laboratory. Additionally, Ivor John & Associates engaged with station owners to identify suitable retail stations interested in connecting with hydrogen station developers and maintained contact with both station owners and installers to monitor progress and determine if preliminary commitments and agreements could be reached.

The work performed to accomplish these objectives will be furthered through the Electric Drive 805 coalition. The ElectricDrive805.org website will serve as a ZEV resource clearing house. Many of the partners who worked on this report are members of the coalition including the CEC, San Luis Obispo, Santa Barbara & Ventura County APCDs and C5. The members of the coalition are motivated to advance the objectives of this grant, continue to aid state goals, and bring truth to their tagline – "the future of clean driving is now."

CHAPTER 1: Introduction

Project Objectives and Supporting Contractors

The report was prepared for the Tri-Counties region of San Luis Obispo, Santa Barbara, and Ventura but the identified approach, outcome, challenges, lessons learned, and next steps for each of the eight project tasks are implementable to other areas of California and are provided in each chapter. The goal of this Plan is to implement and build upon key recommendations from the Electric Vehicle Readiness Plan for Ventura, Santa Barbara, and San Luis Obispo Counties (CEC-ARV-11-002 - completed 2014), the Alternative Fuel Vehicle Readiness Plan (CEC-ARV-13-017 - completed 2016), and the Hydrogen Readiness Plan (CEC-ARV-14-038 – completed in 2017) to accelerate the region's deployment of zero emission vehicle (ZEV) infrastructure and expand the regional adoption of ZEVs among both consumers and fleet operators. The SLOCAPCD was the administrator of this grant. Several subcontractors supported the SLOCAPCD in accelerating ZEV adoption and accomplishing the objectives outlined in Table 1 below. In addition, the project tasks and products outlined to accomplish the below stated objectives are identified in Appendix A.

Several challenges and lessons learned surfaced while administering this grant. One main issue included a lack of specific identification of responsibilities within each task. For example, Task 5 was not clear on who would be responsible for identifying potential site hosts for the electric vehicle supply equipment (EVSE) site assessments. The team that developed the grant application assumed the contractor would accomplish this subtask, but ABM had not anticipated this work in the quote they provided for the application. As such, the air districts and CEC absorbed this responsibility and since they were not versed in identifying potential site hosts, the process was not efficient. To help streamline their efforts, the SLOCAPCD recommends the following to other potential project managers: 1) ensure that subtask responsibilities are well defined in Energy Commission project applications; 2) consider narrowing your project scope; and 3) consider minimizing the number of project subcontractors. More challenges and lessons learned are included in the chapters for each task.

As for next steps, the work performed to accomplish the project objectives will be furthered through the ElectricDrive805 coalition that was refined as part of the work for this project. The ElectricDrive805.org website will serve as a ZEV resource clearing house. Many of the partners who worked on this report are members of the coalition including Community Environmental Council in Santa Barbara, San Luis Obispo, Santa Barbara & Ventura County APCDs and C5. The members of the coalition are motivated to advance the objectives of this grant, continue to aid state goals, and bring truth to their tagline – "the future of clean driving is now."

Supporting Contractor(s)	Objectives and Supporting Contractors
CEC	Establish a ZEV Ombudsman that will work with local governments, Coalition of Governments, APCDs, infrastructure service providers, site hosts, and ZEV consumers to implement Electric Vehicle Supply Equipment (EVSE) and hydrogen fueling station siting and build out and increase ZEV adoption in the region.
Fehr & Peers, CEC, SBCAPCD & VCAPCD	Conduct an analysis using empirical mobile device data to identify and evaluate key locations for EVSE infrastructure installations.
Fehr & Peers, CEC, SBCAPCD & VCAPCD	Identify and prioritize at least 25 key strategic siting opportunities for EV charging stations, including priority EVSE sites identified for each of the three Counties, priority EVSE sites identified in disadvantaged communities or within % mile of their geographic boundaries, and priority EVSE sites identified in low-income census tracts.
EV Alliance, SBCAPCD & VCAPCD	Accelerate deployment of PHEVs in major fleets and increase fleet access to EV charging infrastructure, with an emphasis on medium- and heavy-duty EVs.
ABM Inc., CEC, SBCAPCD & VCAPCD	Coordinate at least 18 EVSE site assessments, including site assessments for each county, site assessments for disadvantaged communities, and site assessments for low-income census tracts in the region.
CEC, C5, SBCAPCD & VCAPCD	Promote increased ZEV awareness among key demographics and stakeholders, including regional fleet operators, political leaders, first responders, potential ZEV drivers, and businesses and multi-family dwellings in disadvantages communities.
Ivor John & Associates	Conduct 2 or 3 one-day, safety trainings for First Responders. Trainings will ideally be hosted at a centrally located fire department in each county.
Ivor John & Associates	Facilitate agreements between hydrogen infrastructure providers and regional fueling station owners.

Table 1: Project Objectives and Supporting Contractors

Source: SLOCAPCD

CHAPTER 2: ZEV Ombudsman & Electric Drive 805

Task 2 was intended to create a ZEV Ombudsman for the region covering the 805-area code who could serve as the main point of contact for ZEV stakeholders and support Central Coast ZEV Readiness Implementation activities. SLOCAPCD convened the project team and Plug-In Central Coast partners to appoint the ZEV Ombudsman after the ZEVRI grant agreement was executed with the California Energy Commission and the kick-off meeting for grant-funded activities was completed. CEC was selected to serve as the region's ZEV Ombudsman and led Task 2 activities in collaboration with the grant project partners and members of the Electric Drive 805 collaborative (formerly Plug-in Central Coast).

In the ZEV Ombudsman role, CEC served as the main point of contact for ZEV stakeholders and helped SLOCAPCD coordinate ZEV implementation activities for the grant-funded project. The main goals for the ZEV Ombudsman under the scope of work for Task 2 included:

- Building collaboration and engagement with a wide range of ZEV stakeholders, including local governments, Municipal Planning Organizations, large workplaces, property managers, commercial businesses, fleet operators, and drivers in the region
- Supporting ZEV stakeholders with EVSE infrastructure development to expand access to electric vehicle charging at key locations
- Coordinating ZEV outreach and engagement activities with the grant-funded project partners (see Task 6)
- Developing and maintaining a clearing house of ZEV resources, contacts, incentive program information, and ZEV readiness implementation data to assist project partners and ZEV stakeholders

To meet the regional needs for ZEV Readiness Implementation support and achieve these goals, CEC led work to provide targeted ZEV Ombudsman support with a variety of activities. These activities included:

- Facilitating and guiding the process to rebrand Plug-in Central Coast, the region's existing plug-in electric vehicle collaborative, to Electric Drive 805 (named for the 805-area code)
- Designing and developing the Electric Drive 805 website with targeted information for key stakeholders in the region
- Tracking and supporting implementation of (AB) 1236 in the region, which requires local governments to provide streamlined permitting processes for residential and non-residential EV charging stations
- Surveying and cataloging information about incentives for ZEV stakeholders, including utility EVSE incentives, infrastructure programs, and rates (see the report in Appendix B-1)

- Compiling existing resources and developing new resources to support EVSE infrastructure development at key locations
- Identifying EV infrastructure service providers in the region (see Appendix B-2)
- Facilitating access to incentives for new, leased, and used EVs, with special emphasis on low-to-moderate income households that are eligible for increased rebates from the Clean Vehicle Rebate Program (CVRP) or down payment grants from the Clean Vehicle Assistance Program pilot (CVAP)
- Providing resources and guidance for EV charging demand surveys at workplaces and Multi-Unit Dwellings (MUDs)
- Convening project partners and stakeholders to explore opportunities for new local or regional ZEV incentive programs
- Updating ZEV resources as needed

Approach

A wide range of stakeholders need to collaborate and take coordinated action to achieve statewide goals for ZEV adoption and infrastructure development. Building collaboration across key ZEV stakeholders at the local and regional levels will help each county and municipality in California do its fair share to achieve the statewide target for 5 million ZEVs on California roads by 2030, deploy 250,000 EV charging stations, and build 200 hydrogen fueling stations. The ZEV Ombudsman helped anchor, expand, and coordinate regional collaboration in support of these state ZEV targets.

To support collaboration with project partners and grant subcontractors, CEC used Google Drive for file sharing. Shared Google documents and spreadsheets were used for collaborative resource development, meeting coordination, and data collection and collation. Meetings were convened with Electric Drive 805 stakeholders, grant subcontractors, and regional stakeholders to identify key needs related to ZEV infrastructure development, incentives, and outreach and education activities. These stakeholders included CalTrans District 5 staff in San Luis Obispo County, sustainability staff from local governments, non-profit housing corporations, property management companies, fleet managers, transit operators, investor-owned utility staff, statewide incentive program administrators, and community-based organizations serving the region's disadvantaged, low-income, and rural communities.

Electric Drive 805 Rebranding

After being appointed as the project's ZEV Ombudsman, the CEC led the process to rebrand Plug-in Central Coast, the region's plug-in electric vehicle collaboration, as Electric Drive 805. The rebranding effort was initiated to support the Task 6 goal for more inclusive ZEV outreach and engagement since the Plug-in Central Coast brand was not representative of many noncoastal communities in the project region. There is also a lack of widespread agreement about geographic regions that make up California's Central Coast. For example, some residents in Ventura County identify as being part of the Southern California region while others describe their region as the Central Coast. The project team's rebranding was intended to create a more inclusive and geographically targeted brand identity that would strongly resonate with the region's diverse stakeholders.

CEC used a collaborative process to develop the new brand for the Plug-in Central Coast coalition. Best practices on marketing and brand development from Patagonia were applied to guide the rebranding process.1 After collecting input from partners and conducting collaborative working group meetings, the project team developed a brand positioning statement that clearly and concisely articulated who the coalition was and why we were working to support the transition to ZEVs:

Brand Positioning Statement: We are a coalition dedicated to achieving a rapid, equitable transition to electric vehicles. We lead local action to increase access to the cleaner, more efficient electric vehicles available today. Our goal is to reduce emissions from the largest source of pollution in the 805 regions, the cars and trucks we drive.

CEC and project partners used the brand position statement to develop ideas for new brand identities. CEC collected input on new brand identity concepts from Plug-In Central Coast coalition members, ZEV stakeholders, and community-based organizations serving Disadvantaged and Low-Income Communities and Spanish-speaking residents. Numerous ideas for the new brand identity were collected and input on the different concepts was solicited from project partners and regional stakeholders. Based on the input from partners, the project team and Plug-in Central Coast, members selected Electric Drive 805 as the new brand identity for the coalition. The project team selected the Electric Drive 805 brand identity because they felt residents of the region strongly identified with the 805-area code, which also represents a distinct geographic area covering the three counties. Stakeholders with community-based organization serving Spanish-speaking community members also felt the brand identity could function well across multiple languages, which was aligned with the coalition's focus on multilingual ZEV awareness and education.

After the Electric Drive 805 brand was selected, CEC worked with their inhouse graphic design and communications team to develop the brand logo and a multilingual tagline. Concepts for the logo and tagline were refined with project partners to create the final versions (Figure 1).

¹ Tools for Grassroots Activists. Patagonia. Edited by Nora Gallageher and Lisa Myers. 2016.



The future of clean driving is now

El futuro de conducir limpio es hoy

Source: CEC & Pharos Creative LLC Website Development

The new Electric Drive 805 branding was used for the regional ZEV website, ElectricDrive805.org. The Electric Drive 805 website was designed to provide targeted information to four key ZEV stakeholders groups: drivers, workplaces, property managers, and local governments. CEC created a site map to outline the ElectricDrive805.org webpages and develop the navigation structure for the website. After the preliminary site map was developed, draft text was developed for each webpage and iterative updates to site map were made as necessary. The clearing house of ZEV resources, incentive program information, and ZEV readiness implementation guidance that CEC assembled was used to develop content for the ElectricDrive805.org webpages. A temporary landing page was created and launched while full content for the website was developed. The temporary landing page announced that the full webpage was forthcoming and allowed website visitors to sign-up for email notifications from the Electric Drive 805 coalition. The MailChimp platform was used on the backend of the Electric Drive 805 website to manage the mailing list and send custom email notifications.

Project partners had the opportunity to review draft versions of webpages as they were developed and were asked to share inputs and edits. CEC moved forward with coding and design for webpages as the text for each webpage was finalized. The first iteration of the full website was developed at the end of 2018. The full website launched on January 23, 2019, after beta testing was completed with project partners. Each Electric Drive 805 member issued a press release announcing the website launch in their region between January 23 and January 29, 2019.

ZEV Resource Clearing House

Resources were also compiled or developed to support ZEV awareness and adoption among the region's drivers, with special emphasis on low-to-moderate income households that were eligible for increased incentives from the CVRP or down-payment grants from the Clean Vehicle Assistance Grant Program. These resources focused on ZEV options, their benefits, current incentives, and the charging/fueling options available to drivers in the region.

Additional resources were compiled or developed to support EVSE infrastructure development at key locations, including large workplaces, multifamily housing developments, and public destinations in the region. The project team complied information about 2016 California Building Code requirements for accessible EV charging infrastructure, so stakeholders could easily access this information and install EV charging stations in conformance with the Americans with Disabilities Act (see Appendix E-3). A list of EV infrastructure service providers in the region was developed, so the project team could help stakeholders connect with EVSE hardware vendors, network service providers, and electrical contractors that have experience with EV charging station planning, design, and installation (see Appendix B-2).

Utility EVSE Incentive Programs

Two investor-owned utility (IOU) EVSE incentive pilot programs were operating in the region during the ZEVRI project, including SCE's Charge Ready Pilot Program and PG&E's EV Charge Network Program. The IOU EVSE incentive pilot programs cover the full cost of electrical infrastructure upgrades that are required for EV charging station installations. PG&E and SCE also provide rebates for EVSE hardware to further reduce the upfront costs of EV charging station installations. The rebate amount depends on the location, type, and number of charging station that an eligible site host elects to install. Larger rebates are available for EV charging stations projects located in Disadvantaged Communities or at MUD locations.

To support regional awareness and access to new utility incentive programs for EV infrastructure development, CEC, aided by Air District partners engaged utility staff managing PG&E's EV Charge Network and SCE's Charge Ready pilot programs.²

A special meeting was conducted with PG&E's EV Charge Network and local government staff within the utilities service territory on December 12, 2017. The meeting took place shortly before the full launch of the EV Charge Network. During the meeting, PG&E staff shared information about EV Charge Network pilot program eligibility, EVSE project requirements, and guidance to facilitate successful applications. PG&E staff encouraged stakeholders to give special attention to Americans with Disabilities Act (ADA) accessibility requirements for EVSE, as outlined in the 2016 California Building Code.

SCE's Charge Ready Program staff were also engaged to support coordination and information sharing about their utility EVSE incentive programs with regional stakeholders in the utilities service territory. CEC participated in Charge Ready Pilot Advisory Board meetings to track pilot program updates. SCE staff also shared information and resources to help facilitate access to the Charge Ready program for eligible sites in the ZEVRI project region.

The project team asked the SCE and PG&E utilities about the best approaches to share information about their respective EVSE incentive pilot programs. In response, utility staff

² The project region is split across PG&E and SCE utility service territories. San Luis Obispo County and the northern half of Santa Barbara County are located in PG&E service territory, while Ventura County and the southern half of Santa Babara County are located in SCE service territory.

encouraged CEC and the ZEVRI project team to direct regional stakeholders to their utility EVSE incentive program websites since these would have the most up-to-date information. CEC and Air District partners directly notified large entities in their region that could potentially meet the significant minimum project size required by these IOU programs. This proved to be an effective approach with several large entities completing projects through the IOU programs.

EV Charging Demand Surveys

CEC also developed online survey templates to assess EV charging demand at workplaces and MUDs. The online surveys templates were developed in Google forms. Survey piping and question logic were used to skip respondents over any questions that did not apply to them. A respondent's answers to previous survey items were used to determine the subsequent survey items that would not be applicable to them, which helped provide a streamlined experience and reduced the time required to respond. With this survey design approach, most respondents could complete the EV charging demand surveys in less than 5 minutes.

Both online surveys to assess workplace and MUD charging demand were developed to collect data on current EV ownership rates and current charging access at the residence/workplace location. For non-EV drivers, survey questionnaire items were designed to assess the level of interest in future EV ownership and how access to EV charging would influence respondents' consideration of an EV as their next automobile. Respondents who indicated that they were not considering an EV as their next automobile, were directed to an open-ended question asking the respondent to describe their reason(s) for not considering a plug-in electric vehicle as their next automobile.

Each of the survey templates also included questions to collect targeted information. The workplace charging demand survey collected targeted information about travel behaviors related to workplace commuting, including mode choice(s), commute distance, the number of days respondents' drove to work during a typical week, parking availability/access, and vehicle dwell times. The MUD charging demand survey collected targeted information about the number of vehicles in respondents' households, mode choice(s), parking access at their multifamily residence, commuting habits to work/school, and the location(s) of their workplace/school.

The survey templates that CEC developed were shared with SLOCAPCD and project partners, so they could be adapted into surveys for specific workplace/MUD locations. Links to the Google Forms for workplace and MUD EV charging demand survey templates are included in Appendix B-2.

Identifying New Local & Regional ZEV Incentive Opportunities

CEC coordinated 3 meetings with SLOCAPCD and local government members of the rebranded Electric Drive 805 coalition (formerly Plug-in Central Coast) to explore opportunities for new regional ZEV incentive programs. Before facilitating the 3 incentive meetings, CEC identified local and regional EV rebates and charging infrastructure development incentives launched by local governments outside of the ZEVRI project region. SLOCAPCD and the project partners discussed different EV incentive programs from outside the region during the first meeting.

The last two meetings were used to identify EV incentive models that seemed more aligned with the 805 region's needs, develop new incentive program concepts for the region, and explore potential funding sources. The project team identified two main opportunities to expand EV charging infrastructure incentives for the region, including 1) securing block grant funding for a regional CALeVIP project that could support public EV charging infrastructure development and 2) building collaboration with Community Choice Aggregation programs that expanded into the region.

AB 1236 Implementation Tracking & Support

CEC also tracked and supported local government implementation of AB 1236 in the region. Building officials at municipal and county governments were contacted to determine if the requirements of AB 1236 were being met and evaluate how local governments were meeting the AB 1236 mandates.

CEC conducted outreach from December 2017 to October 2018 to assess local government implementation of AB 1236 in the counties of San Luis Obispo, Santa Barbara, and Ventura. Building and permitting officials for a total of 12 local governments (4 in each county) were contacted via phone and email to assess the status of AB 1236 implementation. CEC worked with engaged local government staff to determine if their municipality or county had met 4 key requirements of AB 1236:

- 1. Passed an AB 1236 ordinance to streamline permitting for both residential and non-residential EV charging station projects
- 2. Provided a checklist of all the requirements that residential and non-residential EV charging station projects must meet to receive expedited permit application processing
- 3. Posted all EV charging station checklists and required permitting documents to a publicly accessible webpage on the local government's website
- 4. Allowed for electronic submittal (via email, internet, or fax) of the permit application and associated documents

AB 1236 outlines additional requirements for streamlined local government permitting. However, CEC focused on these key requirements because they are among the strongest and most broadly applicable requirements in AB 1236. Few if any conditional clauses apply to the above requirements, which are binding for all local governments in the state (except for the rare few that do not currently have a local government website).

All local governments in California were required to implement streamlined permitting in conformance with AB 1236 no later than September 30, 2017. However, only 4 of the 12 local governments had met the key requirements outlined above when their staff were initially engaged. 7 of the 12 local governments had partially implemented streamlined permitting for EV charging station projects. For example, 2 of the 4 local governments contacted in Ventura

County had passed the required ordinance and streamlined permitting for single-family residential EV charging stations but did not have a streamlined permitting process in place for multi-family residential and/or commercial charging station installations.

Since two-thirds of the local governments that CEC engaged were not in conformance with key requirements of AB 1236, CEC provided guidance and support to help local governments implement streamlined permitting processes for residential and non-residential EV charging stations. The guidance document that CEC developed to support local government implementation of AB 1236 included model ordinances and permitting checklists (see Appendix B-3).

Based on CEC's engagement with local governments, the main factors contributing to incomplete implementation of streamlined permitting requirements set forth in AB 1236 include:

- No enforcement: there is currently no state agency mandated to track, support, or enforce local government implementation of AB 1236, so many cities and counties have not prioritized implementation of streamlined permitting
- Limited awareness: in some cases, local government staff indicated that they were not aware AB 1236 requirements, which highlights the need for improved information sharing between state authorities and local government building officials.
- Lack of local government capacity: many local governments were open about staff capacity limitations and budget constraints that prevented them from devoting time and resources to AB 1236 implementation.

In many cases, local governments serving disadvantaged, low-income, and/or rural areas had the least staff capacity for AB 1236 implementation. As a general rule, the local governments that serve disadvantaged, low-income, and rural communities bring in less revenue from property, sales, and income taxes. This lack of revenue can reinforce a cycle of under investment in these areas of need, which is reflected in both the implementation of AB 1236 and regional charging infrastructure development.

It is important to note that CEC did not assess the permitting fees for residential and nonresidential charging stations, but the cost to receiving permits and approval for charging station installations can present significant barriers. For example, the City of Fresno required traffic impact studies as part of their non-residential charging station approval process. These traffic impact studies cost several thousand dollars and a significant investment of time to complete. When the first CALeVIP incentives program launched in the City of Fresno in 2018, the traffic study requirement for permitting and approval presented a significant barrier to the timely dispersal of CALeVIP incentive funding for charging infrastructure development.

Future outreach and engagement with local government building officials should be conducted to ensure that the fees and approval processes for EV charging station permitting are affordable and do not present barriers to EV infrastructure development or investment in the region.

Outcomes

The first full iteration of the Electric Drive 805 website launched on January 23, 2019, and can be accessed at <u>ElectricDrive805.org</u>. The press releases issued by Electric Drive 805 coalition members generated significant media coverage across the ZEVRI project region, including news reports that ran on local television stations, radio interviews, and published news articles.³ 4 ⁵ Some coalition members issued their press releases in both Spanish and English.⁶ More than 450 people have requested to sign-up for Electric Drive 805 notifications so they can receive updates about electric vehicle events, incentives programs, infrastructure development opportunities, and EV policies.

CEC used the clearing house of ZEV resources to develop the Electric Drive 805 website. Online ZEV resources are linked throughout the website on webpages that are targeted to the four specific stakeholder groups that the Electric Drive 805 is focused on engaging, including drivers, workplaces, property managers, and local governments. Some of the clearing house resources developed for the ZEVRI project were not made available on the Electric Drive 805 website due to insufficient funding, coalition member concerns, and/or related challenges described in the following section. The list of EV infrastructure service providers that the project team developed is available in Appendix B-2.

The Santa Barbara County Association of Governments (SBCAG) incorporated key questions from the workplace EV charging demand survey template into a broader commuting survey. The survey was distributed to all local government employees at the City of Santa Barbara and County of Santa Barbara. The Ventura County Regional Energy Alliance (VCREA) also used the MUD and workplace EV charging demand survey templates to develop surveys and collect data on EV charging demand for the Ventura County EV Ready Blueprint.⁷ 8

^{3 &}quot;New Coalition hopes to bring more electric cares to the Central Coast." *KEYT*. Nathlie Vera. January 29, 2019. Available at: https://www.keyt.com/news/environment/new-coalition-hopes-to-bring-more-electric-cars-to-the-centralcoast/994889490

^{4 &}quot;Electric cars cost less than you think." *Santa Barbara Independent*. Amelia Buckley. February 1, 2019. <u>http://m.independent.com/news/2019/feb/01/tri-county-initiative-aims-increase-electric-vehic/</u>

^{5 &}quot;Electric Drive 805 coalition aims to increase EV access in Santa Barbara, SLO, Ventura counties." *Santa Maria Times*. Mike Hodgson. January 28, 2019. <u>https://santamariatimes.com/news/local/electric-drive-coalition-aims-to-increase-ev-access-in-santa/article_39457904-c005-5a99-871c-f4f24351701d.html</u>

^{6 &}quot;Bilingual report: Effort launched to transition county drivers to electric vehicles." *Amigos805.com*. January 23, 2019. Available at: <u>https://amigos805.com/bilingual-report-effort-launched-to-transition-county-drivers-to-electric-vehicles/</u>

⁷ As of August 16, 2019, the draft version of the Ventura County Electric Vehicle Blueprint was available at: https://www.vcenergy.org/electric-vehicle-blueprint/

⁸ VCREA collected more than 1,200 responses from employees at 3 of Ventura County's largest workplaces and 47 response from residents at one MUD. VCREA also collected 350 comments about perceived or actual barriers to ZEV adoption from people who indicated that they were not considering an EV as their next automobile. This work was funded with a separate California Energy Commission grant (AVR-17-046).

This effort collected a total of 1,200 employee responses from three workplace surveys and 47 resident responses from one multifamily housing development survey. Also collected were about 350 comments about perceived or actual barriers among people that are not considering an electric vehicle currently.

Building and permitting officials for a total of 12 local governments (4 in each county) were contacted via phone and email to assess the status of AB 1236 implementation. CEC found relatively low rates of implementation for AB 1236 among local governments in the region. Two-thirds of the 12 local governments that CEC engaged had EV charging permitting practices that did not meet the streamlining requirements of AB 1236.

Given the low rates of conformance among the contacted local governments, Community Environmental Council provided guidance and support for AB 1236 implementation. As a result of these efforts to encourage local government implementation of streamlined permitting, 2 out of the 8 local governments that did not meet AB 1236 requirements initially were in full conformance as of 2019. The local governments that moved from non-conformance to full conformance included the City of Oxnard and City of Moorpark.

The 3 meetings to explore opportunities for new regional ZEV incentive programs sparked continued conversation about a regional CALeVIP project for the 805 region. As a result of continued dialogue with Electric Drive 805 members, a meeting with CALeVIP administrators from the Center for Sustainable Energy (CSE) was scheduled for August 27, 2019. Staff from Monterey Bay Community Power and the Clean Power Alliance are anticipated to participate in the CALeVIP meeting with CSE and Electric Drive 805 members since their Community Choice Aggregation programs recently expanded into the 805 region.

Challenges

Issues related to scoping and funding presented challenges for Task 2 implementation. Numerous activities were scoped under Task 2 and the funding allocation for was not sufficient to cover all of CEC's work for the scoped activities. In particular, the amount of time that would need to be devoted to web development was underestimated.

Funding constraints limited CEC's ability to host all ZEV clearing house resources on the Electric Drive 805 website. CEC did not publish the list of EVSE service providers due to concerns among some local government members of Electric Drive 805. The main concern was that public agencies could be misperceived as endorsing private EVSE infrastructure companies.

CEC had difficulty engaging local governments to assess AB 1236 implementation. In many cases, building official were slow to respond to inquiries and share documents related to AB 1236 implementation. This highlighted issues with local government capacity and resourcing that also affected Task 6 activities. Local governments serving disadvantaged communities, low-income communities, and rural areas were often slower to respond or more difficult to engage.

Lessons Learned

Based on CEC's engagement with local governments, the main factors contributing to incomplete implementation of streamlined permitting requirements set forth in AB 1236 include:

- No enforcement: there is currently no state agency mandated to track, support, or enforce local government implementation of AB 1236, so many cities and counties have not prioritized implementation of streamlined permitting
- Limited awareness: in some cases, local government staff indicated that they were not aware of AB 1236 requirements, highlighting the need for improved information sharing between state authorities and local government building officials.
- Lack of local government capacity: many local governments were open about staff capacity limitations and budget constraints that prevented them from devoting time and resources to AB 1236 implementation.

In the absence of state regulations to enforce AB 1236, more resources and support will be needed to accelerate local government implementation of streamlined EV charging station permitting requirements.

The California Governor's Office of Business and Economic Development (GOBiz) released the EV Charging Station Permitting Guidebook in July 2019 to help meet this need and is providing increased leadership for local government implementation of AB 1236.9 In tandem with the guidebook's recent release, GOBiz also provided a Permitting Electric Vehicle Charging Stations Scorecard and launched a dedicated ZEV Readiness site to track EV charging station permit streamlining for each local government in the state.10 The website includes a map that will display the Permitting EV Charging Station Scorecard results for local government jurisdictions, which could help create greater transparency and accountability for AB 1236 implementation.

As of this report, the GOBiz ZEV team is in the beginning stages of evaluating the streamlining status of jurisdictions throughout California. The scored map will be populated with additional information over the coming weeks and months.

Next Steps

CEC and grant partners should also reach out to GOBiz to share information about local government implementation of AB 1236 in the 805 regions, so their agency can more readily score local governments in the region on their streamlined EV charging station permitting. Streamlined permitting policies and checklists can accelerate the EV charging station siting and

⁹ California Governor's Office of Business & Economic Development (GOBiz). "Electric Vehicle Charging Station Permitting Guidebook". July 2019. Available at: <u>http://businessportal.ca.gov/wp-content/uploads/2019/07/GoBIZ-EVCharging-Guidebook.pdf</u>

¹⁰ The Permtting Electric Vehicle Charging Station Scorecard and California EV Charging Station Permit Streamlining Map are available at: <u>http://www.business.ca.gov/zevreadiness</u>

installation process, reduce costs, and ensure that installed EVSE operates effectively and safely. Recommended permit streamlining initiatives are described below:

- 1. Streamline EVSE permitting processes by 1) approving all zoning and land use classifications for electric vehicle charging in local ordinance; 2) providing digital and online permit submission options; 3) establishing and communicating standard permit approval times by building type; 4) identifying a point of contact for the EVSE permitting process; 5) clearly defining required materials for permit application; 6) including Permit Process Language in local ordinance; 7) maintaining reasonable and flat charger permit fees; 8) waiving plan requirements for simple installations such as single-family residential charging; and 9) establishing phone and online inspection request systems.
- 2. Integrate CALGreen language in local ordinance to bring local communities into compliance with AB 1236, so that all municipalities in Ventura County will see increased deployment of electric vehicle charging stations in new construction.
- 3. Develop a countywide initiative to implement Reach codes that increase EVSE requirements for new buildings and major remodels. Ventura County can build on the multi-county Reach Code effort ongoing in Alameda, Santa Clara, and San Mateo Counties, coordinated by TRC.
- 4. Develop an interactive, map-based Electric Vehicle Planning tool that will assist in public and private EVSE development and that can be used to locate existing electric vehicle charging infrastructure, largest MUDs and workplaces, major public destinations, and Disadvantaged and Low-income Communities.
- 5. Track private and public sector funding opportunities to bring electric vehicle charging infrastructure to areas where it is needed most. Utilize Electric Drive 805 website to present up to date funding information for stakeholders to consider in their EVSE planning.
- 6. Prioritize public charging development strategically to increase overall electric vehicle adoption and serve communities throughout the Ventura County region. EVSE siting should focus on 1) locations with heavy vehicle turnover, including grocery stores and shopping centers; 2) locations with longer vehicle dwell time such as multi-unit apartments, workplaces, airports, and transit hubs; 3) site proximity in disadvantaged or low-income communities as identified by CARB for AB 1550; and 4) site distance from existing electric vehicle charging stations.

Bringing local communities into compliance with AB 1236 to ensure streamlined EV charging station permitting will 1) support increased deployment of residential and non-residential EV charging stations, 2) facilitate quick delivery of incentive funding for EV charging stations to applicants; and 3) support timely EV charging infrastructure development for new construction or retrofits that are subject to CALGreen or Reach Code requirements for EV charging.

It is important to note that CEC did not assess the permitting fees for residential and nonresidential charging stations, but the cost to receiving permits and approval for charging station installations can present significant barriers. For example, the City of Fresno required traffic impact studies as part of their non-residential charging station approval process. These traffic impact studies cost several thousand dollars and a significant investment of time to complete. When the first CALeVIP incentives program launched in the City of Fresno in 2018, the traffic study requirement for permitting and approval presented a significant barrier to the timely dispersal of CALeVIP incentive funding for charging infrastructure development. Future outreach and engagement with local government building officials should be conducted to ensure that the fees and approval processes for EV charging station permitting are affordable and do not present barriers to EV infrastructure development or investment in the region.

CEC will continue to work with partners and Electric Drive 805 coalition members to identify funding sources that can sustain ZEV Ombudsman activities, including web design and resource development for the Electric Drive 805 collaborative. If additional funding is secured for ZEV Ombudsman support, CEC could work with Electric Drive 805 coalition members and ZEV stakeholders to implement the following recommendations:

- If the state budget allows, engage the California Energy Commission and the Center for Sustainable Energy to launch a regional CALeVIP incentive project serving Ventura County before the end of 2020. Santa Barbara and San Luis Obispo County could also choose to participate depending on the discussions with CALeVIP representatives. A regional CALeVIP project would offer incentives for the purchase and installation of electric vehicle charging infrastructure at publicly accessible sites.
- Create and launch online applications and an expedited review process for local Air District EV charging station incentive programs, which will facilitate quick dispersal of grant funding that can be stacked with other electric vehicle infrastructure development incentives (such as CALeVIP) to reduce upfront cost barriers.
- Build greater collaboration with the region's IOUs and CCA programs, including the Clean Power Alliance (CPA) and Monterey Bay Community Power (MBCP), to establish new electric vehicle pilot projects and incentive programs.
- Seek strategic partnerships with SCE, CPA, PG&E, and MBCP that can help fund coordinated electric vehicle marketing, outreach, and education activities throughout the region.
- Develop lists of the region's 300 largest workplaces, 300 largest MUDs, and 100 high priority locations in disadvantaged/low-income communities so they can be targeted for ZEV outreach and infrastructure development.
- Connect workplaces with an Electric Vehicle Coach (see the 'Next Steps' section of Chapter 6), so they can receive one-on-one support with EV infrastructure development, access EV infrastructure incentive programs, and apply for grant funding opportunities with an emphasis on dual use opportunities for electric vehicle fleets, employees, and the public.
- Create an Electric Vehicle Champion recognition program to increase electric vehicle awareness among employers and acknowledge leadership in advancing California's clean transportation and climate goals.
- Explore innovative "charging as a service" financing models that reduce upfront costs and operational risks for site hosts.

- Encourage deployment of lower-cost Level 1 charging where feasible and appropriate for sites where vehicles are parked for more than six to eight hours each day (i.e. long-dwell scenarios).
- Prioritize outreach, education, and support for workplaces and MUD charging infrastructure development that will meet the electric vehicle charging needs of multiple users (e.g. employees and fleet operators, or residents and public users).
- Educate MUD residents on the "electric experience" to create demand for MUD charging.
- Focus programs on new MUD construction and areas with gaps in public charging infrastructure development.
- Deploy public charging at or near larger clusters of apartments and condos
- Convene utility, industry, and funding partners to coordinate MUD electric vehicle charging deployment.
- Focus investment on electric vehicle infrastructure that will serve residents in the region's disadvantaged, low-income, and rural communities.
- Target MUD outreach to properties with 17 or more units that are subject to the 2013 California Building Code for electric vehicle charging infrastructure development. (As of January 2, 2014, the California Building Code requires that all MUDs with 17 or more units shall set aside three percent of the total number of parking spaces, but no less than one parking space, to be charging station capable, i.e., have stub-outs and sufficient panel capacity to accommodate EVSE).

CHAPTER 3: Strategic EVSE Siting Analysis

The purpose of the Strategic EVSE Siting Analysis was to conduct an analysis using empirical mobile device data to identify key locations for the development of electric vehicle charging stations, referred to as EVSE in this report. The results were used to identify strategic EVSE siting opportunities for the counties of Ventura, Santa Barbara, and San Luis Obispo that were not included in the 2014 Central Coast EV Readiness Plan's11 recommended site maps. The identified EVSE siting opportunities from the analysis were used to prioritize locations for the site assessments described in Chapter 5.

In addition to empirical mobile device data, Fehr & Peers incorporated utility grid infrastructure data from Pacific Gas & Electric (PG&E) and Southern California Edison (SoCal Edison) into the analysis. To increase equitable access to EV charging, data from the California Office of Environmental Health Hazard Assessment's (OEHHA) CalEnviroScreen 3.0 tool and AB 1550 were used to identify high-priority locations for EVSE infrastructure in the region's disadvantaged and low-income communities.12 13

The project team was not aware of any other assessments that incorporated empirical mobile device data to help identify and prioritize geographic areas for EV infrastructure development upon completion of the Strategic EVSE Siting Analysis. However, empirical mobile device data has been used for broader analysis of travel demand. For example, the 2016 Central Coast Origin-Destination Survey used empirical mobile device data to gather information on the travel behavior of people who make regional and inter-regional trips on US 101 in the Central Coast region.¹⁴ Empirical mobile device data provides a new basis for prioritizing EVSE infrastructure development based on observed travel behaviors at the regional level. There are both advantages and disadvantages of using mobile device data represented in the Table 2 below.

^{11 &}lt;u>https://www.c-5.org/altfuel-readiness.php;</u> Central Coast from this plan represents Ventura, Santa Barbara, and San Luis Obispo Counties of California. This area is also consistent with the Tri-County region described in this ZEV Readiness Implementation Plan.

¹² California OEHHA. *CalEnviroScreen 3.0 (updated June 2018)*. Last accessed July 16, 2019. Available at: https://oehha.ca.gov/calenviroscreen/report/calenviroscreen-30

¹³ CARB. *California Climate Investments: Priority Population Investments*. Last access July 16, 2019. Available at: https://ww3.arb.ca.gov/cc/capandtrade/auctionproceeds/communityinvestments.htm/

¹⁴ SBCAG, SLOCOG, VCTC, and Fehr & Peers. *Central Coast Origin-Destination Survey*. July 8, 2016. Last accessed July 16, 2019. Available at: <u>http://www.sbcag.org/uploads/2/4/5/4/24540302/central_coast_o-d_survey_final_report_7-8-2016.pdf</u>

Advantages	Disadvantages
 Very large sample size able to provide information regarding all types of trips that occur. Provides true origin-destination data rather than observed or vehicle registration location. Provides origin-destination data in a format more suitable for comparison and integration with travel demand models. Data can be queried, aggregated and disaggregated to match desired level of analysis. Data collection method does not require set up time or human transcribing of observed field data. 	 Unable to directly measure information regarding trip purpose, frequency, characteristics of travel or demographics. However, much of this information can be inferred or supplemented with information from other sources. Collection and aggregation of data can be costly but provides a significantly larger sample size than other methods.

Table 2: Mobile Device Data Advantaged and Limitations

Source: CEC

For the Strategic EVSE Siting Analysis, Fehr & Peers worked with StreetLight Data to obtain anonymous data showing the location and movement of mobile devices in the Tri-Counties region's roadway network. Streetlight data aggregated the mobile device data across geographic "zones" to ensure user privacy. This zonal mobile device data was used to identify high traffic locations that could be well suited for EVSE installations.

Analysis was conducted to identify high-priority areas for EVSE infrastructure development across four user groups, including intraregional travelers, workplace employees, multi-dwelling residents (henceforth referred to as "renters"), and fleet operators. Individual map-based results for each of these four user groups were developed and show the high-priority areas where additional EVSE infrastructure development would be most likely to meet EV charging needs for each user group. Fehr & Peers also combined the individual results for each user group to create a "combined use score" map that displays the top 25 high-priority areas for EVSE development.

The map-based results of the Strategic EVSE Siting Analysis are available online, so stakeholders can identify potential strategic locations for the siting of EVSE in the Tri-County region. The publicly available online prioritization maps can be accessed on the SLOCAPCD website.15 The individual results for each of the four user groups can be displayed in the online maps at a regional or county level, along with the combined use score map showing the top 25 high-priority areas for EVSE infrastructure development in the Tri-County region.

¹⁵ Available at www.slocleanair.org/community/zev.php.

Fehr & Peers produced a report on the Task 3 results and a technical memorandum which can be found in Appendix C-1.

Approach

Step 1: Data Collection and Collation

To determine the strategic siting opportunities for EVSE in the region, Fehr & Peers first obtained mobile device data from Streetlight Data and collected shapefiles of relevant supplemental data. Such data included shapefiles for CalEnviroScreen 3.0 Disadvantaged Communities from the California OEHHA, AB 1550 Low-Income Communities data from California Climate Investments, and utility infrastructure data from PG&E and SCE.

Additionally, existing and forecasted growth of both multi-dwelling units (MUDs) and the number of retail and office employees was collected from the regional travel demand models used by SBCAG, SLOCOG (San Luis Obispo Council of Governments), and VCTC (Ventura County Transportation Commission. Data on existing charging stations was obtained from the US Department of Energy's Alternative Fuels Data Center (AFDC) and fleet operator data was obtained from Fleet Seek. However, this data was not included in final EVSE analysis due to completeness and reliability issues. The MUDs and workplace data was used to identify high-priority areas for EVSE infrastructure development for multifamily housing and major employers.

Step 2: Traffic Analysis Zone Development

Fehr & Peers next developed a 288-zone geographic layer for the region to provide a geographic system for data analysis, scoring, and mapping. The geographic layer was based on the traffic analysis zone (TAZ) structure of the 2016 Central Coast Origin-Destination Survey. All of the collected data was incorporated into GIS datasets. Fehr & Peers overlaid, aggregated, and tagged these GIS datasets onto the TAZ systems to create a shapefile that could then be sorted, queried, and spatially analyzed. StreetLight Data then collated the anonymized data from mobile devices in the region for analysis using the defined TAZ structure.

Step 3: Develop List of Travel Behavior Metrics

Next, Fehr & Peers, CEC, and SLOCAPCD developed a list of travel behavior metrics to apply to the EVSE siting analysis. The metrics were designed to identify regional travel patterns that are most likely to create a higher demand or need for EV charging in a geographic zone. The travel behavior metrics included:

- Total auto trips passing through each zone
- Total auto trips "parking" in each zone
- Auto trips of 20+ miles, 40+ miles, and 100+ miles that pass into a zone and park
- Work trips, shopping trips, and intermediate trips (intermediate trips refer to secondary trips made as part of a longer primary trip which are less than 20 miles)
- Medium-duty truck trips of 40+ miles passing through each zone
- Medium-duty truck trips of 40+ miles that pass into a zone and park

- Heavy-duty truck trips of 40+ miles passing through each zone
- Heavy-duty truck trips of 40+ miles that pass into a zone and park

These selected travel behavior metrics were based on a set of assumptions about charging needs, EV driving ranges, and EV charging preferences for each user group.

Parameter	Data Format	Scoring Method	Assumptions
Land Use			
Multi-Unit Residential Units	number of units		EVSE infrastructure development should be prioritized at MUD locations with a higher share of units since this will help increase EV charging access for a larger number of residents that rent.
Proposed Multi-Unit Residential Growth	number of units		EVSE infrastructure development should be prioritized for land use zones that will see relatively higher growth in the number of MUDs since the State of California Building Code requires "EV-ready" parking spaces for new multi-family residential construction.
Retail Employment	number of employees		EVSE should be deployed at retail centers based on the share of employees, not just customers, since e retail employees may need access to EV charging.
Office Employment	number of employees		EVSE should be prioritized for larger workplaces since this will increase EV charging access for a greater number of employees. If employees are renters who lack access to home charging, workplace charging may enable EV ownership for some renters who lack access to home charging. EVSE at office locations is scored for intraregional travel since office chargers are less likely to be publicly accessible and charging at an office location will be less attractive than charging at a location with retail amenities for long-distance travelers.
Proposed Office Employment Growth	number of employees		EVSE infrastructure development should be prioritized for land use zones that will see relatively higher growth in the number of offices since this will increase the number of employees commuting to the area. This parameter is not scored for intraregional travel for the reasons specified above.
Other Employment	number of employees		EVSE should be prioritized for all large workplaces, not just employees at large retailers or offices, since this will help increase EV charging access for all of the region's workforce.
Location of Fleet Operators	number of fleet operators		Areas with a larger share of fleet operators will need additional EVSE infrastructure development and electrical system upgrades - especially if a large number of fleets EVs will be charging at the same times.

Table 3: Key Assumptions for EVSE Siting Analysis

Parameter	Data Format	Scoring Method	Assumptions
Residential Demographics (for sorting)			
Disadvantaged Community (Disadvantaged Communities)	0 if no, 1 if yes		EVSE infrastructure development should be prioritized within the region's Disadvantaged Communities to ensure equitable access to EVs and charging.
Non-Disadvantaged Communities Low-income Communities	0 if no, 1 if yes		EVSE infrastructure development should be prioritized within the region's Low-Income Communities to ensure equitable access to EVs and charging. To avoided double counting, the Low-Income Communities used in the analysis exclude AB 1550 low-income areas that are also designated as Disadvantaged Communities in CalEnviroScreen 3.0.
County	County Name	trinary	County-level analysis of high-priority EVSE locations is needed since high-priority areas will naturally skew to higher population centers in the Ventura County region.
Electrical Infrastructure			
PG&E DC Charging Capacity	0 if no, 1 if yes		Areas with more available electrical capacity will require fewer infrastructure upgrades and allow for lower-cost DC Fast Charging installations that can serve intraregional travelers at retail locations near major travel corridors as well as fleet operators. PG&E staff indicated that grid capacity is less of an issue for Level 2 charging stations, which are more likely to be a good fit for workplaces and MUDs.
PG&E 1-mile Substation Proximity	0 if no, 1 if yes		Substation locations and 1-mile buffer areas around substations were identified but should not be used for scoring since utility staff indicated that EVSE proximity to substations is not necessarily important for infrastructure development and grid reliability.
SCE 15% Charging Capacity	0 if no, 1 if yes	binary	Areas with more available electrical capacity will require fewer infrastructure upgrades and allow for lower-cost DC Fast Charging installations that can serve intraregional travelers at retail locations near major travel corridors as well as fleet operators. PG&E staff indicated that grid

Parameter	Data Format	Scoring Method	Assumptions
			capacity is less of an issue for Level 2 charging stations, which are more likely to be a good fit for workplaces and MUDs.
SCE 1-mile Substation Proximity	0 if no, 1 if yes	binary	Substation locations and 1-mile buffer areas around substations were identified but should not be used for scoring since utility staff indicated that EVSE proximity to substations is not necessarily important for infrastructure development and grid reliability.
Existing L1 or L2 chargers	number of chargers		EVSE infrastructure development should be prioritized in areas that do not have existing EVSE but are likely to see higher charging demand to close significant gaps in the region's EV charging network. Due to incomplete and inaccurate data, the number of Level 1 and Level 2 chargers in a geographic zone was not scored.
Existing DC fast chargers	number of chargers		EVSE infrastructure development should be prioritized in areas that do not have existing EVSE but are likely to see higher charging demand to close significant gaps in the region's EV charging network. Due to incomplete and inaccurate data, the number of DC Fast Chargers in an geographic zone was not scored.
Travel Behavior			
Total Personal Auto Trips Passing Through	number of trips		Areas with higher travel demand will be associated with higher demand for EV charging as more drivers and fleets transition to plug-in EVs. Therefore, EVSE infrastructure development should be prioritized in areas with higher travel demand.
Personal Auto Trips Passing Through of 20+ miles	number of trips	percentile	A 40-mile round trip is within the range of all available BEVs and PHEVs, but increased charging access will help reduce range anxiety for prospective BEV drivers and will increase the number of electric miles for the region's PHEV drivers.

Parameter	Data Format	Scoring Method	Assumptions				
Personal Auto Trips Passing Through of 40+ miles	number of trips		If an employee drives 40+ miles to work in a BEV with less than 90 to 100 miles of range, they may not be able to get home without workplace charging - especially if they need to run errands or complete additional travel before or after work. Since Drivers may not be comfortable transitioning to an EV if there is uncertainty about their ability to complete the return trip home for their daily commute, increased access to workplace charging will help long-distance commuters feel more confident that an EV can meet their needs and can increase EV adoption among drivers that need to commute more than 40 miles each day.				
Personal Auto Trips Passing Through of 100+ miles	number of trips		Almost all one-way trips over 100 miles are for intraregional pass-through trips. Drivers completing pass through trips in an EV will prefer to use DC Fast Charging near a major travel corridor at locations with amenities.				
Total Personal Auto Parking Events	number of parking events	percentile	EVSE infrastructure development should be prioritized at locations where a large number of renters/employees park for a period of time and will have an opportunity to charge. More detailed analysis could be conducted in the future with mobile device data to infer the median vehicle dwell times for zones and determine the best types of EV charging to make available (i.e. more DCFC charging for zones with shorter median vehicle dwell times versus more L1/L2 charging for zones with longer median dwell times).				
Personal Auto parking events with 20+ miles left	number of parking events	percentile	Greater priority for EVSE infrastructure development should be given to areas where a large share of drivers will need to travel 20 miles or more after parking.				
Personal Auto parking events with 40+ miles left	number of parking events	percentile	Greater priority for EVSE infrastructure should be given to areas where a large share of drivers will need to travel 40 miles or more after parking.				
Heavy-Duty Truck Trips Passing Through of 40+ miles	number of trips	percentile	DCFC development should be prioritized in areas where a large number of heavy-duty vehicles travel 40 or more miles to support regional fleet electrification and opportunity charging for freight/delivery trucks.				

Parameter	Data Format	Scoring Method	Assumptions
Heavy-Duty Truck Parking Events with 40+ miles left	number of parking events		Greater priority for EVSE infrastructure development should be given to areas where a large number of heavy-duty vehicles will need to travel 40 miles or more after parking.
Medium-Duty Truck Trips Passing Through of 40+ miles	number of trips		DCFC development should be prioritized in areas where a large number of medium-duty vehicles travel 40 or more miles to support regional fleet electrification and opportunity charging for delivery/utility vehicles.
Medium-Duty Truck Parking Events with 40+ miles left	number of parking events	percentile	Greater priority for EVSE infrastructure development should be given to areas where a large share of medium-duty vehicles will need to travel 40 miles or more after parking.
Work Trips	number of trips		Prioritizing EVSE infrastructure development in areas with a higher number of workplace commuting trips will increase access to EV charging for a greater number of people and promote EV adoption. Renters living at MUDs without EVSE may be able to charge at their workplace and employees with longer commutes will be more likely to adopt an EV if they can charge at the workplace. If a business or agency has a fleet of vehicles to support their operations, EVSE infrastructure development at the workplace will support the transition to more EVs in the fleet.
Shopping/Recreation Trips	number of trips		Prioritizing EVSE infrastructure development in areas with a higher number of shopping/recreation trips will increase access to EV charging for a greater number of people and promote EV adoption. Renters living at MUDs without EVSE may be able to charge at nearby shopping centers and employees that lack access to workplace charging may be able to charge at retail locations before or after work while running errands. Locations with amenities such as coffee, food, and retail near major travel corridors are prime opportunities for recharging during long-distance trips. Trucks delivering goods could also recharge during or after deliveries/pickups.
Intermediate Trips	number of trips		EVSE infrastructure development should be prioritized at locations with a large number of intermediate trips for renters and intraregional travelers. Since renters are much less likely to have access to home charging, they will need more access to EV charging at public destinations where they stop to run errands, recreate, or receive services.

The metrics for total pass through auto trips and parking auto trips in each zone are based on the assumption that higher overall travel demand will be associated with higher demand for EV charging as more drivers transition to plug-in electric vehicles. Metrics at varying distances were selected based on the all-electric driving ranges for pure battery electric vehicle (BEV) and plug-in-hybrid electric vehicle (PHEV) options. Pure battery electric vehicles have a driving range of 80 to 100-miles or more, while most current PHEVs have an all-electric range of less than 20 miles to upwards of 50 miles.

Mobile device data was used to infer and differentiate a variety of trip types. Shopping trips and work trips were analyzed to capture the relative need for expanded workplace and destination charging in each zone. A metric for intermediate trips of less than 20 miles was included to capture drivers who make multiple short distance trips to a variety of destinations since the cumulative travel from these trips could exceed the all-electric range of pure battery electric or plug-in hybrid vehicle.

Medium- and heavy-duty vehicle metrics were also developed to identify zones where regional fleet operators, freight, and delivery services are most likely to need charging to complete their duty cycle. Streetlight Data inferred and isolated trip data for fleet vehicles with a proprietary algorithm that evaluates parameters related to the time of day a trip occurred, origin-destination points, and travel patterns. The project team assumed that most fleet vehicles are medium or heavy-duty trucks for the EVSE fleet analysis. The fleet-focused metrics were applied to the inferred fleet vehicle trip data to identify zones where relatively high numbers of fleet vehicles pass through with 40+ miles of travel remaining and where fleet vehicle drivers tend to park with more than 40 miles travel remaining.¹⁶ All of the above described metrics were tagged to the 288-zone geographic layer developed from the TAZ systems for subsequent analysis that applied weighed scoring.

Step 4: Develop Weighted Scoring Criteria

The selected travel behavior metrics were assigned scores, weighted, and applied in the geographic analysis to identify high-priority zones for EVSE. An Excel-based weighted scoring spreadsheet was developed for the travel behavior metrics. Weights and scores were also set for contextual parameters related to land use and grid infrastructure for each of the 288 zones. Separate weighting factors were developed for each of the four user groups to account for differences in a group's unique charging demands and needs.

The different weighted factors for user groups allowed Fehr & Peers to conduct an individual assessment of high-priority EVSE areas for the each of the four user groups, which included intraregional travel, workplaces, MUDs, and fleets. The individual user assessments considered

¹⁶ The assumption that all fleet vehicles are medium- or heavy-duty vehicles is not completely valid since some fleet include light-duty vehicles. The project team applied this assumption to simply the EVSE siting analysis in the absence of data on the relative distribution of vehicle classes for the region's fleets.

different metrics and applied varying weights to create scores that could help decision-makers and stakeholders with strategic charging infrastructure development in the geographic zones based on each user group's assumed behaviors and charging needs.

	Tab	ole 4: Weight	ed Scoring	-			
Parameter	Data Format	Remove	Scoring Method	Weighting Factor by Use Case			
		for Sorting		Employee	Renter	Road Tripper	Fleet Operator
Land Use					-	1.0	
Multi-Unit Residential Units	number of units		percentile	-	5	-	-
Proposed Multi-Unit Residential Growth	number of units		percentile	-	5	-	-
Retail Employment	number of employees		percentile	2	2	5	2
Office Employment	number of employees		percentile	5	5	-	1
Proposed Office Employment Growth	number of employees		percentile	5	5	-	1
Other Employment	number of employees		percentile	1	2	3	2
Location of Fleet Operators	number of fleet operators		percentile	-	-	-	5
Residential Demographics (used for sorting))				-	1.0	
Disadvantaged Community (DAC)	0 if no, 1 if yes	1	binary	-	-	-	-
Non-DAC Low-income Communities	0 if no, 1 if yes	1	binary	-	-	-	-
County	County Name	1	trinary	-	-	-	-

Parameter	Data Format	Remove	Scoring Method	Weighting Factor by Use Case			
		for Sorting		Employee	Renter	Road Tripper	Fleet Operator
Electrical Infrastructure					-	1.0	
PG&E DC Charging Capacity	0 if no, 1 if yes		binary	2	2	5	5
PG&E 1-mile Substation Proximity	0 if no, 1 if yes	1	binary	-	-	-	-
SCE 15% Charging Capacity	0 if no, 1 if yes		binary	2	2	5	5
SCE 1-mile Substation Proximity	0 if no, 1 if yes	1	binary	-	-	-	-
Travel Behavior				1.0			
Total Personal Auto Trips Passing Through	number of trips		percentile	2	2	-	-
Personal Auto Trips Passing Through of 20+ miles	number of trips		percentile	3	3	3	-
Personal Auto Trips Passing Through of 40+ miles	number of trips		percentile	5	5	4	
Personal Auto Trips Passing Through of 100+ miles	number of trips		percentile	-	-	5	-
Total Personal Auto Parking Events	number of parking events		percentile	1	1	-	-
Personal Auto parking events with 20+ miles left	number of parking events		percentile	4	5	4	-

Parameter	Data Format	Remove	Scoring Method	Weighting Factor by Use Case			
		for Sorting		Employee	Renter	Road Tripper	Fleet Operator
Personal Auto parking events with 40+ miles left	number of parking events		percentile	5	5	4	
Heavy-Duty Truck Trips Passing Through of 40+ miles	number of trips		percentile	-	-	-	5
Heavy-Duty Truck Parking Events with 40+ miles left	number of parking events		percentile	-	-	-	3
Medium-Duty Truck Trips Passing Through of 40+ miles	number of trips		percentile	-	-	-	5
Medium-Duty Truck Parking Events with 40+ miles left	number of parking events		percentile	-	-	-	3
Work Trips	number of trips		percentile	5	2	-	1
Shopping/Recreation Trips	number of trips		percentile	-	3	-	2
Intermediate Trips	number of trips		percentile	-	4	4	-

Source: CEC

Step 5: Develop Final Scores for Each Use Case

To develop a final "score" that represented each zone's potential charging demand for each of the four use cases, a scale from one to five was applied to each selected metric for each zone. Additionally, to account for equity considerations, scores for the low-income and disadvantaged communities can be isolated and sorted to provide a standalone ranking of high-priority zones for EVSE infrastructure development in these areas of need. As a potential economic factor, zones can be sorted based on distance from a PG&E or SCE substation. Appendix C-1 (page 28) includes the indexed scale for each metric for all 288 zones.

To create the final scores for each zone, the weighted scoring criteria was multiplied by the scaled metric scores for each zone. For example, if a zone had a metric score of 2 for "Volume of Parking Events for Commute", and the weighted score was 3 for renter charging, it would contribute 6 points to the final renter charging score for that zone. Additionally, a combined use score was developed for each of the 288 zones to determine the overall top 25 scoring zones in the Tri-County area. The scores for each of the four use cases added together create the combined use score. Appendix C-1 (page 34) shows the final scores for all 288 zones.

Outcome

Online, publicly accessible maps of the four use cases and combined use score were created to visualize the results of the final scores for each zone. The following URL links can be used to access the maps:

- 2018 Electric Vehicle Supply Equipment Siting Analysis for Travelers: <u>https://arcg.is/1K4OHf</u>
- 2018 Electric Vehicle Supply Equipment Siting Analysis for Workplaces: <u>https://arcg.is/1jeOez</u>
- 2018 Electric Vehicle Supply Equipment Siting Analysis for Renters: <u>https://arcg.is/08reK0</u>
- 2018 Electric Vehicle Supply Equipment Siting Analysis for Fleets: <u>https://arcg.is/1eLHKn</u>
- 2018 Electric Vehicle Supply Equipment Siting Analysis for Combined Use Score: <u>https://arcg.is/4rKaO</u>

The maps have layers that can be switched on or off. Each map varies in its displayed layers. Figure 2 below shows a screenshot of the map for intraregional travelers. The boxes and labels to the left show which layers are turned "on" and which layers are turned "off" indicated by a check mark.

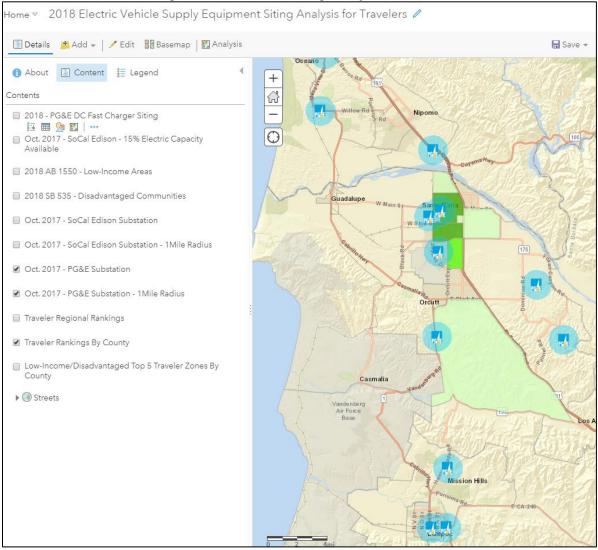


Figure 2: 2018 EVSE Siting Analysis for Travelers

Source: Fehr & Peers and SLOCAPCD

Additionally, the layers are clickable, meaning a user can click on the displayed layer to find out more information about the attributes for different map objects and polygons. Figure 3 below displays a screenshot of the clicked attributes for the Zone 117 polygon. The pop-up window for the zone includes acreage, county and city information, whether the zone is in a CalEnviroScreen 3.0 Disadvantaged Community or in an AB 1550 Low Income Community, number of substations in the zone, and the scoring for the employee, renter, traveler, and fleet categories. As a second example, Figure 3 below displays a screenshot of the clickable attributes within the layer for PG&E Substation 1-mile Radiuses. A pop-up window shows information including the substation name, owner, status and kilovolt amperage.

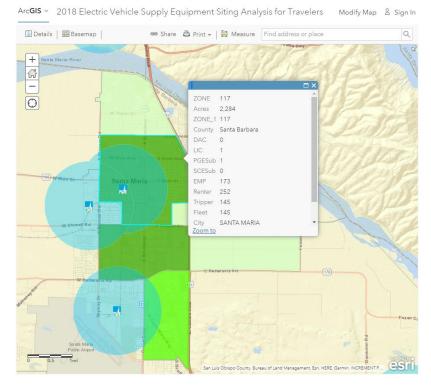


Figure 3: 2018 EVSE Siting Analysis for Travelers – Zone 117

Source: Fehr & Peers and SLOCAPCD

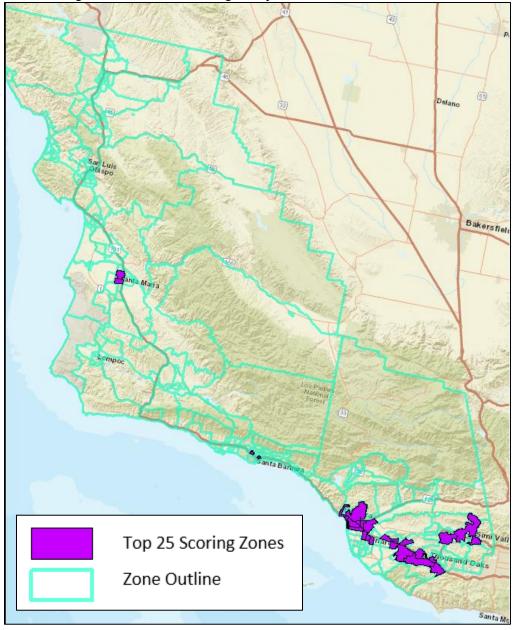
Source: Fehr & Peers and SLOCAPCD

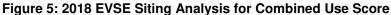
Figure 4: 2018 EVSE Siting Analysis for Travelers – PG&E Substation Attribute

ArcGIS 🗵 2018 Electric Vehicle Supply Equipment Siting Analysis for Travelers 👘 Modify Map 💈 Sign In 🚡 Details 📔 📲 Basemap 📗 🍩 Share 🖨 Print 🕶 🛛 🙀 Measure 🛛 Find address or place Q + 값 (1 of 2 -Substation SS1880 \odot Substati_1 Santa Maria Alias Operational Status Owner PG&E Map Owner PG&E Map_Part L Engineerin kV_12_TO_3 kV_33_TO_9 kV_110_TO_ YES kV_220_To_ kV_345_To_ Zoom to esri

Regional Combined Use Score of Four Use Cases

Figure 5 below is a screenshot of the highest 25 combined use scores in the Tri-County Region. As shown below, Ventura County had many high scoring zones (21 out of 25). Ventura County has a higher population and land use density than the Santa Barbara and San Luis Obispo counties, so the zones in Ventura County had a relatively higher volume of pass-through travel and parking trips compared to the other two counties. As a result, the highest 25 combined use scores were skewed towards zones in the Ventura County region.

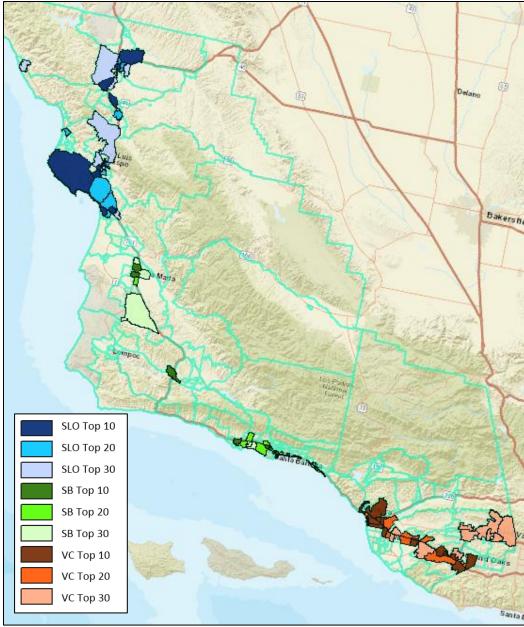




Source: Fehr & Peers and SLOCAPCD

Top 30 Rankings for Each County

To understand and visualize each County's independent demand for charging stations, a set of individual rankings were developed for the counties of Santa Barbara, San Luis Obispo, and Ventura. For example, Figure 6 below shows the independent results of the Traveler analysis for each county. Each of the three counties is represented by three different color palettes. The top 10 scoring zones in each county are shown as a darker shade, followed by the next 10 highest scoring zones (rankings 11 to 20) in a medium shade and the lightest shade represents the next top 10 highest scoring zoning (rankings 21 to 30).





Source: Fehr & Peers and SLOCAPCD

Top 5 Low-Income or Disadvantaged Community Rankings for Each County

To further refine the results for each county and help support equitable access to EV charging across the region, a layer of the top 5 highest scoring zones in disadvantaged or low-income communities was created. Figure 7 below shows results of the Renter EVSE siting analysis for the region's low-income and disadvantaged communities. The top 5 highest scoring low-income or disadvantaged zones in each of the counties are represented by the same color palette as the overall County rankings (blue for San Luis Obispo, green for Santa Barbara, and orange for Ventura County).

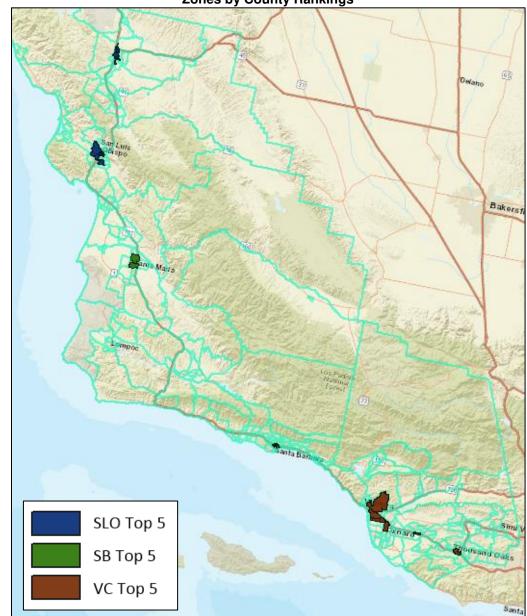


Figure 7: 2018 EVSE Analysis for Renters - Top 5 Low-Income or Disadvantaged Community Zones by County Rankings

Source: Fehr & Peers and SLOCAPCD

Challenges

The main challenge of the EVSE analysis was the quality of data associated with certain data sources. Data for existing level 1, 2 and DC fast chargers in the region was obtained from the US Department of Energy's Alternative Fuels Data Center (AFDC). However, the project team determined that the AFDC data on existing charging stations in the region was neither complete nor reliable. The AFDC data did not include many of the region's publicly accessible charging stations. Some of the AFCD data also included inaccurate information about the number and types of charging ports available at locations identified as having existing EVSE infrastructure. Data obtained from Fleet Seek to identify the location of fleet operators in the region also had issues related to completeness and reliability. The dataset did not identify some of the region's fleet operators was outdated and no longer accurate. While the AFDC charging station and fleet data are included in final datasets for the EVSE analysis, they were not used to identify high-priority locations and are not clickable layers in the online maps to avoid misrepresentation or confusion.

Additionally, some other data sources were not displayed properly on the online maps. The 2018 PG&E DC Fast Charger Siting layer does not display detailed information when clicked. PG&E provides detailed information about their infrastructure capability relative to future DC fast charger installations for 300 one-mile radius bubbles in their service area. PG&E's service territory covers all of San Luis Obispo County and the northern half of Santa Barbara County. There are 10 DC Fast Charger sites that PG&E identified across Santa Barbara and San Luis Obispo counties, which are represented by green bubbles in the online maps. The PG&E DC Fast Charging Siting layer has limitations that needed to be noted to support informed decision-making; PG&E did not conduct on-the-ground evaluation of the identified DCFC sites and many may not have parking to support public DC fast charging. A PDF of the information for these ten bubbles and criteria definitions are included in Appendix C-2. These bubbles tend to overlap the San Luis Obispo and Santa Barbara County zone that the Task 3 analysis identified as priority zones for EVSE infrastructure development.

Furthermore, the 288-zone geographic layer provided a high-level analysis for EVSE siting. Since a relatively high spatial resolution was used in the analysis, the map-based results cannot be used to identify the specific locations for EVSE infrastructure development that will best meet the region's EV charging needs. The spatial resolution that is applied in geographic analysis can have a significant impact on the results. This is demonstrated in Figure 8, which shows how the results of an assessment on pesticide exposure vary when the same input data is analyzed at different spatial resolutions.17

¹⁷ Integrated Environmental Health Impact Assessment System. *Effects of spatial resolution: worked example*. Integrated Assessment Toolbox Consortium. Last accessed July 16, 2019. Available at: <u>http://www.integrated-assessment.eu/eu/guidebook/effects_spatial_resolution_worked_example.html</u>

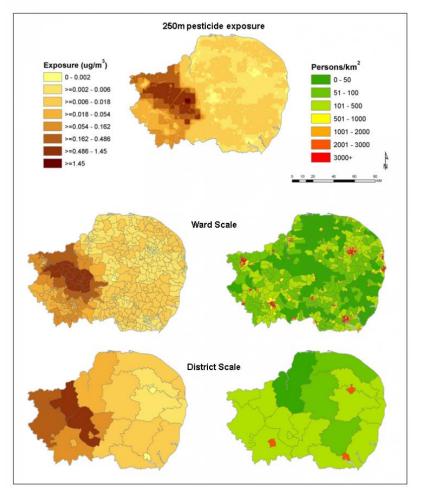


Figure 8: Effects of Spatial Resolution

Source: Integrated Environmental Health Impact Assessment System

The cost to obtain and analyze empirical mobile device increases for each additional zone that is analyzed. As a result, the project team could not conduct a more granular analysis that used a higher spatial resolution and included more than 288 zones with the budget available for work on Task 3. Data privacy issues can also prevent analysis of empirical mobile device data for smaller geographic zones (i.e. higher spatial resolution). Given budget constraints and privacy considerations, the Task 3 EVSE analysis needed to be at a high-level in order to perform the other tasks within this grant. The result of the analysis presents a general understanding of strategic EVSE demand within the region and within the individual counties. Decision-makers, and EVSE stakeholders will need to conduct on-the-ground outreach and evaluations to further refine their understanding of charging demand, the ability to deploy EVSE at sites within high-priority zones, and site-specific design considerations.

Lessons Learned

The completion of the analysis proved to take much longer than anticipated and because of this, the start of other tasks that were intended to rely on Task 3 results were delayed. The

delay mostly affected Task 5 (as described in Chapter 5) since the main goal of the EVSE analysis was to prioritize specific areas for EVSE site assessments based on Task 3 results. It was not possible to identify locations in the high-priority zones until the siting analysis was complete, so Task 5 also exceeded the anticipated project deadline. A map of the assessments completed are included in Chapter 5.

Next Steps

As a next step, regional stakeholders are encouraged to take the following actions that will support strategic EVSE deployment and broader access to EV charging for all community members:

- Identify the top 100 largest workplaces and top 100 largest MUDs in each county
- Identify the top 50 largest MUDs in each region's disadvantaged or low-income communities
- Identify all major retail locations within ½ mile of existing MUDs to support public EVSE infrastructure development that can serve multifamily renters that lack access to charging at home.
- Develop comprehensive datasets for all existing EV charging (Level 1, Level 2, and DCFC stations) at workplaces, MUDs, and public destinations to identify significant gaps in the region's charging network.
- Develop policies to facilitate the expansion of publicly accessible electric vehicle charging infrastructure, such as the adoption of a "One Mile, One Charger" target to ensure that no resident is never more than one mile away from an EV charging station.¹⁸
- Adopt policies to support electric vehicle charging infrastructure development at multifamily residential properties. For example, a local government could set a target to deploy at least two electric vehicle charging stations at each of the 20 largest multifamily residential developments in their jurisdiction before 2025.
- Use electric vehicle outreach and engagement activities to support community-informed electric vehicle infrastructure planning and development, which will help ensure that new charging stations are installed at the locations that will best serve current and future electric vehicle drivers.
- Engage the 100 largest workplaces to advance access to electric vehicle charging for commuting employees and provide resources that will facilitate participation in incentives programs for electric vehicle charging infrastructure development (e.g. SCE Charge Ready program, Ventura County APCD, Electrify America, etc.).
- Engage the property managers and owners of the region's 100 largest multifamily properties to promote electric vehicle charging infrastructure development for renters and facilitate property manager/owner participation in incentive programs for electric

¹⁸ City of Torrance. *One Mile, One Charger: City of Torrance Publicly Accessible EV Charging Infrastructure.* Last accessed July 16, 2019. Available at: <u>https://www.torranceca.gov/our-city/community-development/planning/ev-project</u>

vehicle charging infrastructure development (e.g. SCE's Charge Ready program and Ventura County APCD's electric vehicle charging infrastructure grants).

- Prioritize electric vehicle charging infrastructure development in areas that will increase access to electric vehicle charging in the region's disadvantaged, rural, and lower-income communities
- Install electric vehicles charging stations at all local government parking lots with a special emphasis on projects that can provide charging to multiple users (e.g. the public, fleet operators, and employees).
- Prioritize and offer increased local incentives for electric vehicle charging infrastructure development at public destinations (such as shopping centers) located within a half mile of high- and medium-high density housing developments.
- Launch an Electric Drive 805 Champion program that will recognize multifamily property owners and management companies that are regional electric vehicle leaders. Recognition can be based on a variety of factors, such as the number of charging stations installed per resident, implementing engagement activities that promote electric vehicle awareness, and implementing innovative electric rideshare programs for residents.
- Provide resources to support electric vehicle charging station infrastructure development at multifamily housing developments in collaboration with Electric Drive 805, including toolkits that are designed to help property managers and owners install electric vehicle charging stations, access incentives for electric vehicle infrastructure development, and implement best management practices.

CHAPTER 4: Electric Vehicle Fleet Accelerator

The goal of this task was to accelerate deployment of plug-in electric vehicles (PHEVs) among fleet operators in the Tri-Counties Region with specific attention to electrifying trucks, buses, and light-duty vehicles. The task also aimed to increase all-electric travel by increasing fleet access to EV charging infrastructure that can support all-electric medium- and heavy-duty EVs.

There is great opportunity for both public and private fleets to electrify as fleets often have set routes which can be optimized for EV ranges. Efforts under this task helped large employers improve their familiarity of both electric vehicle technology and the benefits, such as reduced operation and maintenance costs. Currently, however, very few private fleets on the Central Coast utilize EVs, and while some public fleets have added a token number of EVs, the overall opportunity gap for fleet electrification remains very large. Light-duty has been the primary initial transition, mainly due to factors such as limited medium- to heavy-duty truck options, limited range, a lack of awareness or interest amongst fleet managers. Other early adoption challenges include the fact that there are:

- Limited EV fleet mandates and EV friendly policies
- High perceived upfront vehicle purchase costs
- Complexity and additional costs for installing charging infrastructure
- Constraints in parking lots and areas, and
- Additional real or perceived barriers.

This task focused on addressing many of these issues and barriers through outreach directly to fleet managers in the Tri-Counties Region and assistance with transition planning. Primary contractor EV Alliance collected data about the target fleets and then contacted them to learn more about their goals and their potential barriers to electrifying their fleet vehicles. EV Alliance then provided customized information to fleets on vehicle and EVSE options. They presented to 27 groups of fleets by sector and developed customized EV Fleet Accelerator Plans for 7 fleets who were the most engaged fleet managers. EV Alliance also identified 2 sites for level 2 and fast chargers in optimum locations to match fleets expected to adopt PHEVs in 2017 through 2019. A summary of the key conclusions from this task are displayed in Appendix D-1.

Approach and Outcome

Fleet Outreach

EV Alliance developed a master list of potential fleets, with the help of FleetSeek and other relevant data sources and reached out to 85 of the largest fleets throughout the three Central Coast counties. EV Alliance attempted to contact a wide range of fleet types throughout the three counties. The more populous Ventura and Santa Barbara Counties had more and larger fleets than San Luis Obispo County. Multiple calls and emails were made to identify the

contacts most interested in fleet electrification. EV Alliance was able to directly speak to 61 of the 85 fleets, or 72 percent of the list, and 21 of these fleets provided spreadsheets of their fleet composition, including twelve in Ventura County, five in Santa Barbara County, and four in San Luis Obispo County.

EV Alliance developed a pitch to communicate the operational and environmental advantages of EVs as well as deliver information on incentives and available vehicles to the fleets. Appendix D-2 contains the fleet sheet EV Alliance provided to the fleets that included information on infrastructure and financing options. Fleet managers were asked if they currently have EVs in their fleet, or plans to add them, and what the main barriers to electrification were. At the end of each conversation EV Alliance asked for a fleet spreadsheet to learn more about the individual fleet. EV Alliance informed fleet managers about opportunities for sector specific EV presentations and the opportunity to participate in a fleet transition plan. They also answered questions and provided information about vehicles and incentives during this initial conversation.

Presentations

EV Alliance developed high-level PHEV presentations aimed at the various sectors of local governments, transit and paratransit, and school bus fleets, and presented to 27 fleets in total. In person presentations were made at two regularly scheduled meetings, the Central Coast Quarterly Fleet Managers' Meeting (including large cities and counties from all three counties) and TRANSCOMM (transit and paratransit providers in Ventura County). Two webinars were produced to target school buses, transit and paratransit fleet managers, and several individual meetings and phone calls were also completed.

The presentations were tailored for each sector and discussed the background of the Energy Commission grant project, state EV policy goals, overall benefits and challenges of fleet electrification, EV models available, existing and pending incentive programs for vehicles and charging, and case studies. Ample time for questions was provided and a robust discussion often occurred. The following bulleted list includes the agencies who received presentations:

- City of Camarillo
- City of Ojai
- City of Santa Barbara
- City of Santa Paula
- City of Simi Valley
- City of Thousand Oaks
- City of Ventura
- Coast Unified SD
- County of San Luis Obispo
- County of Santa Barbara
- County of Ventura
- Easy Lift Santa Barbara

- Gold Coast Transit
- Lompoc Unified School District
- Moorpark Unified School District
- Orcutt School District
- Paso Robles SD
- Pleasant Valley SD
- RockStar Transportation
- San Luis Obispo RTA
- SLO County Office of Education
- Ventura County Energy Alliance
- Ventura County Transportation Commission

All presentations can be accessed on the SLOCAPCD Webpage: <u>slocleanair.org/community/zev.php</u>.

Fleet Transition Plans

Through conversations with fleet managers, EV Alliance identified the most motivated and interested fleets for transition plans. Many of these fleets were school districts, which often rely on outside funding to purchase school buses, such as California Energy Commission grant solicitations. Many Ventura school districts in disadvantaged communities were particularly interested in this funding source and were in high scoring regions from the Task 3 Siting Analysis.

EV Alliance scheduled an initial conversation to learn more about the individual fleet composition, driving cycles, motivations, and goals. EV Alliance then developed the fleet transition plans as PowerPoint presentations, which included background information, photos and lists of available EVs, and customized advice on which vehicles should be prioritized for electrification. Age of vehicles, driving cycle, and availability of EV product were key determinants of prioritization. EV Alliance also included a section on programs and incentives to help pay for the vehicles and charging infrastructure.

EV Alliance then presented individualized E-Fleet transition plans to each fleet manager. In these presentations, EV Alliance reviewed the plans and answered a broad range of questions about fleet electrification. For the City of San Luis Obispo, EV Alliance also developed a Word document that conveyed more information about electrifying their diverse fleet, as the municipality is highly motivated to electrify to advance their goal of Carbon Neutrality by 2035. The list below displays the fleets that received E-Fleet transition plans. The following bulleted list includes the agencies who received E-Fleet transition plans:

- Oxnard School District
- City of San Luis Obispo
- Paso Robles Joint Unified School District
- Oceanview School District
- Oxnard Union School District
- Pleasant Valley School District
- Moorpark Unified School District

All fleet transition plans can be accessed on the SLOCAPCD Webpage: <u>slocleanair.org/community/zev.php</u>.

Site Identification

Information was provided on sites for Level 2 and fast chargers for fleet transition plan collaborators that appeared most likely to electrify in the next few years. EV Alliance collaborated closely with the City of San Luis Obispo and Paso Robles Unified School District. Much of EV Alliance's efforts for this task were directed to provide the charging specifications required for project partner ABM to conduct a site assessment for the City of San Luis Obispo described in Chapter 5. This ended up being a tricky chickenand-egg problem, as generally chargers are specified after a vehicle and duty-cycle have been identified. Ultimately, to support the City of San Luis Obispo, EV Alliance spoke to multiple vehicle manufacturers to ensure the charger specifications provided would be compatible with whatever make, and model of E-bus the City procured in the future.

Contact information for the City of San Luis Obispo and Paso Robles Unified School District is displayed in Table 5 below.

	Table 5. Level 2 and Tast Charger Site Lists							
Site Name	Primary Category	Address	City	Zip Code	Contact Name	Contact Phone	Contact Email	
City of San Luis Obispo	Transit	29 Prado Rd	San Luis Obispo	93401	Tim Bochum	805-781- 7203	tbochum@slocity.org	
Paso Robles School District	School	2910 Union Road	Paso Robles	93446	Kelly Stainbrook	805-769- 1160 ext. 32009	kstainbrook@pasoschool s.org	

Table 5: Level 2 and Fast Charger Site Lists

Source: EV Alliance staff

Challenges

Fleet managers identified several barriers to electrifying their fleets during interviews with EV Alliance. The most prominent barriers identified included:

- Upfront cost for both EVs and charging infrastructure
- Lack of appropriate EV models
- Lack of familiarity with EVs and their benefits
- Reluctance to try new technologies and uncertainty about long term operational savings
- Inertia and lack of time to devote to exploring EV options

Cost of new electric vehicles and the additional cost and complexity of installing charging stations was a top perceived barrier encountered in conversations with fleets. Light-duty vehicles are approaching price parity, especially with the number of incentives available. Further, the reduced fuel and maintenance costs can result in a favorable total cost of ownership, but the value calculation with medium- and heavyduty vehicles is more complex.

Some fleet managers were unaware of California's Hybrid and Zero-Emission Truck and Bus Voucher Incentive Project (HVIP), uncertain how to monetize the federal tax credit, and unaware of benefits from other programs such as the Low Carbon Fuel Standard.

In addition, the payback period was also hampered by the low operational mileages allowed by the limited ranges of early generation EVs, such as the Nissan Leaf (84-mile

range). Because fleet managers were worried about employees running out of charge and being stranded, they restricted vehicles to local usage. For example, in the County of Santa Barbara, their fleet of 4 Nissan Leafs purchased in 2013 only averaged 3,714 miles/year.

Overcoming Barriers to Fleet Electrification

To surmount these barriers, the EV Alliance recommends several strategies:

- 1. **Monetize Federal Tax Credits:** Public or non-profit fleets should seek to monetize the \$7,500 federal tax credit by working with a dealer that is willing to pass through the tax credit. Most fleets were aware of the \$2,500 California Clean Vehicle Rebate and found it easy to claim.
- 2. Monetize the Low Carbon Fuel Standard (LCFS) Credits: Currently, awareness of the LCFS is very low. It is very easy for consumers to claim this rebate which is \$1,000 in SoCal Edison and \$800 for PG&E territory. Fleets simply need to register on the LCFS website and provide reporting. The potential benefits can be very high, as an average electric bus can receive \$14,000 a year. At the beginning of the task outreach, Santa Barbara Metropolitan Transit District with 14 EV buses in service or on order, was not taking advantage of the program. After hearing about the program, they now are registered and are participating. Through their participation, Santa Barbara MTD will serve as a model of the process, costs, and benefits of the LCFS program for other local fleets.
- 3. **Prioritize Use of Battery EV Fleets to Increase Electric Miles Traveled:** In order to increase electric mileage and speed payback, agencies should shift limited range EVs to employees that travel at least 30-60 miles/day, rather than leave them as pool cars where their mileage may be limited. Agencies should also work with employees and vehicle assignment software to make sure these EVs are driven more often.
- 4. **Include Longer-Range EVs in Fleet Deployments:** To maximize electric vehicle miles for fleets, investment should be made in longer range EVs such as Chevrolet Bolts (238-mile range) and use vehicle assignments to make sure these vehicles are routinely maximized. For example, the County of Santa Barbara could assign a Bolt to the employee driving the furthest each day, such as from administrative centers in Santa Barbara to Santa Maria and back, for a distance travelled of 158 miles.

In the light-duty category, there are now over 40 EV models available in California, with ranges up to 300 miles. Most of these are sedans. SUV selection is more limited, though some new offerings in 2019 and 2020 provide more opportunities to meet the needs of fleets interested in electrifying. Many public fleets have significant numbers of light-duty trucks. While there are currently no light-duty pick-up truck options on the market, brands like Ford, Workhorse, Havelaar, and Rivian have committed to delivering light-duty electric trucks in the early 2020s.

Lack of appropriate EV models was a large barrier for many fleets, especially in the medium and heavy-duty sectors. For medium and heavy-duty vehicles, there are limited options from major manufacturers, though there are many offerings from smaller companies, many of which receive substantial funding from the California HVIP program. Many fleet managers are hesitant to deploy vehicles from smaller start-up companies because of high pricing and uncertainty if the company will survive into future years and honor warranties.

On the medium- and heavy-duty side, EV Alliance focused on school and transit districts for Task 4 as school and transit buses are the most progressive EV technologies and are seen as a "beachhead" sector. School districts benefited from this Task by learning about EV school bus replacements. EV Alliance collected 21 spreadsheets from regional fleets and through the Electric Drive 805 website, fleet managers will be able to learn about new EV models and grant funding opportunities as they become available.

One of the largest barriers that was found was an unfamiliarity with EVs and their benefits. Fleet managers are often risk-averse by nature as their primary job duties are to maintain existing vehicles in reliable working order. Many have also had challenging experiences with past alternative fuels such as CNG and are cautious about expending resources on electrification until the product is fully proven. Concurrently, there have been a lack of internal fleet EV mandates or green fleet policies in many organizations. These two factors have resulted in very limited EV adoption in regional fleets to date. To address this challenge, EV Alliance recommends:

- 5. Develop Fleet EV mandates or "Green Fleet Policies." Many public and private fleets have sustainability goals, but these are often vague when it comes to vehicle electrification. Specific EV goals, such as the California Department of General Services goal of purchasing 25% electric light-duty vehicles by 2020, and 50% by 2025 will drive faster EV adoption. Another approach is to identify how many EVs a fleet will need to meet their share of California's 5 million by 2030 EV goal. Policies such as the City of Santa Monica's administrative instruction to consider EVs first in procurement can help an agency reach their goal. EV Alliance sent information on these goals to all fleets contacted, but it will require ongoing advocacy on the part of Electric Drive 805 and local leaders to move these goals forward.
- 6. **Develop comprehensive Fleet Electrification plans to provide a clear timeline and strategy for acquiring EVs and building out charging infrastructure.** These plans should build upon EV goals and take full advantage of various EV incentives. They should also include workplace charging as many large employers contacted have hundreds of employees, and commuting is often a larger use of fuel than the organization's fleet.

Installing charging stations was another large barrier, as this involved both coordination among different departments, as well as dedicating a budget in advance for charging infrastructure. The EV Alliance recommends:

- 7. **Utilize Existing Incentive Programs:** This includes utility, local air districts, and grant funded opportunities. Relevant programs include:
 - PG&E's EV Charge Network Program
 - SoCal Edison's Charge Ready Program
 - Local Air District grant programs
 - California Electric Vehicle Infrastructure Project (CALeVIP)
 - Incentive programs funded by community aggregate power companies

The EV Alliance informed local organizations about Electric Drive 805, and the coalition's work accelerating EV market adoption. Electric Drive 805 can update Tri-County fleets on annual opportunities for grant funded chargers through the California Energy Commission and other programs through the data and contacts list from this Task.

Lessons Learned and Next Steps

Public versus private fleets

The EV Alliance generally found that private fleets are more cautious about engaging with third party fleet consultants. Private fleets were less likely to respond to initial outreach and EV Alliance received very few fleet spreadsheets after conversing. Many private fleets have only a handful of vehicles or operate medium and heavy-duty vehicles with limited EV options available. Large national fleets are driving private fleet electrification such as UPS and FedEx. However, these large companies are primarily focused on fleet electrification in large urban centers. The smaller outposts on the Central Coast have not yet been prioritized for EV deployment.

Public fleets were more receptive, perhaps as they are more familiar with state EV goals and have been deploying small EV pilot projects. They also typically fund vehicle acquisition more often with outside grant funds, particularly in the case of school or transit buses.

School Bus, Transit, Paratransit and County Fleets should be prioritized

Th EV Alliance found school bus fleet operators, transit districts, and county fleets to be most receptive to near term fleet electrification. School districts typically acquire vehicles through state grants, often administered by APCDs, and thus are accustomed to applying for grants. During EV fleet outreach, a major Energy Commission grant project was active and put hundreds of EV school buses on California's roads, and this created significant interest at school districts to learn more from the EV Alliance team. Many Central Coast school districts applied for the Energy Commission funding, and several will likely receive EV buses from the solicitation. There are also well-established school bus manufacturers deploying EV school buses, so many products are available and are expected to be reliable. School transportation directors are acutely aware of their aging diesel buses and the pollution impacts on sensitive youth populations. Paso Robles Unified School District will be the first Tri-County district to receive an electric bus, in Fall or Winter of 2019, and Electric Drive 805 should prioritize this example for a case study for dissemination to other regional school districts.

Transit buses are the other heavy-duty "beachhead" sector for fleet electrification. The Innovative Clean Transit (ICT) Rule, recently passed by CARB, mandates increased EV transit bus purchases, which culminates in the requirement for 100% EV bus procurement by 2029 for all transit districts. Given fleet turnover, this rule will enable California transit fleets to reach 100% EV buses by 2040. With the ICT mandate, Tri-County transit agencies were motivated to take advantage of EV Alliance's outreach and support. If local APCDs can prioritize additional discretionary funding to help regional transit providers electrify, Tri-County agencies could well become statewide leaders in transit electrification.

The Santa Barbara Metropolitan Transit Agency is an established leader in fleet electrification, with the longest running EV bus program in the country. They currently operate the state's second largest EV bus fleet, with 14 buses in operation or on order. In November 2018, at the request of the CEC and the Sierra Club, they became the first Central Coast agency to join six other transit districts around the state in adopting a 100% electric bus by 2030 goal.

The EV Alliance is not aware of any regional paratransit agencies that operate EVs, but many are interested in fleet electrification for their light- and medium-duty vans and shuttles. Many local agencies run dozens of vehicles, often traveling 50-100 miles a day, with day ahead scheduling, so this sector is ripe for electrification. A large minority of trips do not need wheelchair accessible vehicles and another significant portion only need one wheelchair seating space. EV Alliance presented to all the major local paratransit agencies. These providers received a tepid response because of the large vehicle size and high cost of their offerings, relative to local paratransit provider needs and capacities.

During research and conversations, the EV Alliance determined there is significant opportunity to downsize some vehicles to EV sedans for ambulatory paratransit customers, which would have significant capital and operational savings. Additionally, there are new products such as the Chrysler Pacifica PHEV, which could also provide a lower capital and operating cost option for trips that need wheelchair capabilities. Easylift Paratransit in Santa Barbara was particularly interested in innovating new electrified paratransit options. Electric Drive 805 and the SBCAPCD should consider partnering with them on a future grant opportunity or project. The EV Alliance also found counties have significantly more opportunity and positive use cases for fleet electrification than cities. Counties are much larger agencies, with the County of Ventura being the largest with over 1,700 vehicles, and the County of Santa Barbara close behind with 1,600 vehicles. They operate over a much larger physical space, so experience higher mileage on their vehicles. Some employees are regularly making long trips such as from Santa Barbara to Santa Maria administrative centers (and similarly long intra-county trips in SLO and Ventura Counties). These trips could be made with a longer-range BEV such as a Chevrolet Bolt, leading to a higher number of electrified miles every day. Counties also operate many departments with high numbers of employees using assigned cars that travel over 30 miles/day, such as Social Services, Probation, Child Welfare Services, Building Inspectors, and more. These departmental use cases are prime targets for electric vehicles where low operating costs could make for a fast payback given higher mileage utilization.

In contrast, many Tri-County cities are much smaller, both physically (many vehicles rarely drive outside of a small city), and in vehicle count, and do not have departments with frequent travel requirements. Therefore, to maximize electric VMT per incentive dollar expended, the EV Alliance recommends that local counties are prioritized for EV resources, EV-friendly policies, and EV action plans. Existing county EV pool cars that are experiencing limited usage should be transferred to departments with use cases that drive at least 30-60 miles/day. New, higher range EVs should be purchased for pool cars, with protocols developed via fleet management software to assign these cars to employees that are traveling the highest mileage each day. The County of Santa Barbara is taking the lead on some of the recommendations and are currently developing an EV plan for public review in Spring 2019. Finally, while the findings point to county fleets as the most logical focus for electrifying, there are some cities that have progressive policies (e.g. San Luis Obispo) or that have unique driving needs where fleet electrification opportunities exist.

Workplace charging for the "employee fleet"

While not entirely in the scope of Task 4, the EV Alliance has identified workplace charging for the "employee fleet" as a quick win for regional vehicle electrification. Local agencies are some of the largest employers in the region, such as the County of Ventura, with over 8,000 employees. These employees often commute significant distances. For example, 1,000 of the County of Santa Barbara's 4,600 employees commute more than 60 miles per day to work, and likely use many times more fuel than the County's own fleet. These government workers with long commutes are prime targets for switching to EVs, as they can easily harvest the operating savings of high mileage EV use. Additionally, existing CVRP and other incentives in California bring upfront costs in-line with conventional light-duty ICE vehicles, and there are now abundant (over 40) EV model choices available for consumers. Electric Drive 805 should prioritize plans to develop workplace charging at the many employment centers across the public and

private organizations contacted by this project, as well as develop turnkey education and outreach materials for employers to help their workers electrify their commutes.

CHAPTER 5: EVSE Site Assessments

The main goal of Task 5 was to prioritize locations interested in installing EVSE and perform 18 site assessments. Air District partners (San Luis Obispo, Santa Barbara, and Ventura County) and CEC worked together to identify potential sites in their regions and to engage site owners or managers. The partners worked with representatives from sites expressing the most interest to gather and submit project and site information needed by the primary contractor, ABM, to evaluate EVSE viability for each site.

Once sites were chosen, ABM worked with their secondary contractor, Electricraft, to perform site walks and preliminary drawings for "permit-ready" documents. ABM finalized the documents and Air District partners and CEC sent documents to the prospective EVSE site hosts. Each County received 6 site assessments, totaling 18 in the region. Of the selected locations, 7 were in low-income communities, 2 were in disadvantaged communities, and 1 was within a half mile of a disadvantaged community. Each prospective EVSE site host received "permit-ready" documents with the intent to inform their decision-making about EV infrastructure development for their site. Site hosts were encouraged to complete their EVSE project or build from ABM's documents with additional quotes, project modifications or expansions.

Approach

Once the Task 3 EVSE Site Analysis was complete, Air District partners and CEC began formulating an initial list of potential candidates to receive a site assessment. These lists included school, fleet, business, multi-unit dwelling, and government agency locations for each of the three counties. The candidate site lists for each county were then narrowed to the top 10 locations inside and outside of low-income/disadvantaged areas (providing 30 total locations for targeted engagement). The top 10 location lists for each county were formed based on initial interest expressed by site hosts and rankings from the EVSE Siting Analysis.

Once the top candidate lists were formed, Air District partners and CEC worked with prospective site hosts to collect and submit the necessary documentation to ABM, so their contractor team could determine the best locations for site assessments. The required documents included a site plan of the area, one-line electrical diagram, and 12 months of utility bills. Because of the time constraints of this grant, the final sites were selected based on submittal of needed documentation. Table 5 below shows the final site assessment locations. See Appendix E-1 for Expanded Information Table of EVSE Site Assessment Locations.

	Table 6: Completed EVSE Site Assessment Locations									
Country	O the		Adduces	Charner Llas	Low-Income/					
County	City	Entity Name	Address	Charger Use	Disadvantaged?					
San Luis	San Luis	SLO County General	2180 Johnson	E 1	LIC					
Obispo	Obispo	Hospital	Ave	Fleet						
San Luis	San Luis	Cal Poly University			LIC					
Obispo	Obispo	San Luis Obispo	1 Grand Ave	Fleet						
San Luis	San Luis	San Luis Obispo City			Serves LIC					
Obispo	Obispo	Corporation Yard	29 Prado Road	Fleet						
San Luis			201100011000	11001	No					
Obispo	San Miguel	San Miguel Laundry	1141 Mission St	Public						
Сызро		Paso Robles Joint			Serves LIC					
San Luis		Unified School								
Obispo	Paso Robles	District	2910 Union Road	Fleet						
San Luis	San Luis	District	2010 0110111000	11001	No					
Obispo	Obispo	SLO Guild Hall	2880 Broad St	Public						
Santa			240 Por La Mar	Multi-Unit	LIC					
Barbara	Santa Barbara	El Escorial Villas	Cir	Dwelling						
Santa	Gunta Dalbara			Dwoning	LIC					
Barbara	Santa Maria	City of Santa Maria	110 S. Pine St	Public	2.0					
Santa	ound mund	La Cumbre Jr. High	2255 Modoc		No					
Barbara	Santa Barbara	School	Road	Public						
Santa		Cachuma Lake	2225 Highway		No					
Barbara	Santa Barbara	Recreation Area	154	Public						
Santa			522 University		No					
Barbara	Santa Barbara	UC Santa Barbara	Road	Public						
			525 E.		No					
Santa Barbara	Santa Barbara	The Kete Croup	Micheltorena St	Multi-Unit Dwelling						
Darbara	Santa Darbara	The Koto Group	Micheilorena Si	Dweiling	DAC					
		Oxnard Elementary	514 West Wooley		DAG					
Ventura	Oxnard	School District	Road	Fleet						
		Ocean View School			DAC					
Ventura	Oxnard	District	4200 Olds Road	Fleet						
	Port of		105 Hueneme		No					
Ventura	Hueneme	Port of Hueneme	Road	Public						
		Cal State University			No					
Ventura	Camarillo	Channel Islands	1 University Dr	Public						
, ontaid	Cananio		5297 Maureen		No					
Ventura	Moorpark	Moorpark Unified	Lane	Fleet						
					DAC					
Manataria	Ourseust	Oxnard Union High	3400 W.	Flash						
Ventura	Oxnard	School	Gonzales Road	Fleet						

Table 6: Completed EVSE Site Assessment Locations

Source: ABM Inc.

After documentation was gathered, the project team worked to schedule the site walks. Primary contractor ABM coordinated with secondary contractor Electricraft to send an electrician to walk the site and evaluate available electrical power. Information gathered from site walks was used to create permit-ready documents and quotes. Final permitready documents and quotes were sent to the project team, who then distributed the permit-ready documents to site hosts.

Outcome

Each County received 6 site assessments, totaling 18 in the Tri-Counties Region. Of the selected locations (see Table 6 above), 7 were in low-income and 2 were in disadvantaged communities and 1 was within a half mile of a disadvantaged community. The site assessments for Paso Robles Joint Unified School District and the San Luis Obispo City Corporation Yard were for electric bus charging and both facilities would serve low-income populations on their routes. Figure 9 below illustrates the location of the site assessments with red dots, and their relation to low-income and/or disadvantaged communities. Low-income areas are shown below in light purple and disadvantaged communities are light red. An area in Oxnard has an overlapping low-income and disadvantaged community which is shown in darker red. The turquoise lines indicate the zone outlines from the Task 3 site assessment analysis explained further in Chapter 3.

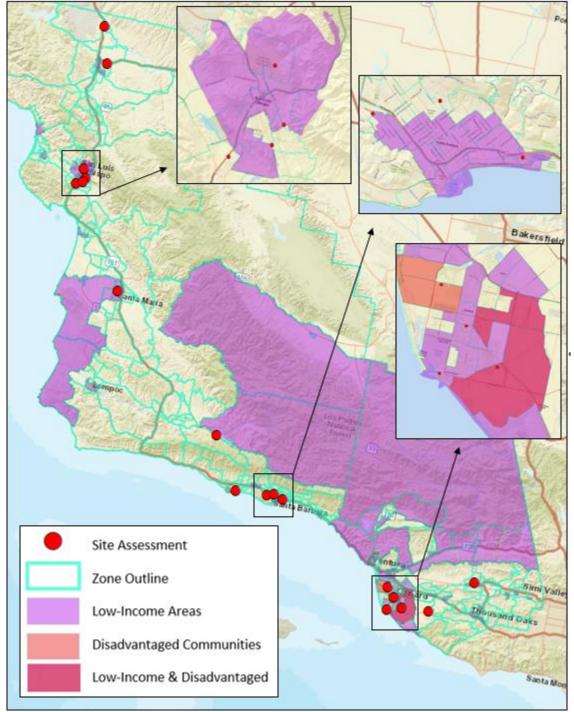


Figure 9: Location of Site Assessments and Low-Income and Disadvantaged Communities

Source: ABM Inc. and Fehr & Peers

Upon receiving their "permit-ready" documents, prospective EVSE site hosts could choose to complete the EVSE project with ABM, request updated quotes with project modifications/expansions from ABM, seek additional quotes from other contractors, or decline to move forward with EVSE infrastructure development at their site. Appendix E-

2 shows an example of the "permit-ready" documents from the SLO County General Hospital Health Campus in San Luis Obispo. In general, the permit-ready documents included:

- Quote: Itemized list of installation, equipment, cloud plan, warranty, shipping, and tax costs
- Overall site view and photo mock-up: Bird's eye and in-person mock-up photos of charger location on site
- Electrical diagram and subpanel information: Illustration of connections from utility meter to chargers
- Specification sheets for equipment: Details of single and dual port chargers with hardware and electrical output information
- Parking site guidelines and layout: Details of parking configurations and signage

The Air District partners, and CEC worked with ABM to ensure that site assessment and permit-ready documents addressed key factors related to the siting, permitting, and installation of EVSE. These key factors include:

- Availability of electrical capacity: The availability of electrical capacity at a site directly impacts the number of chargers and rate of charging possible at the site. Larger deployments of Level 2 and DC Fast Charging with large peaks in energy usage can quickly surpass available electrical capacity on a site. Panel and conduit capacity within existing structures, and the physical distance between electrical service panels and the proposed electric vehicle service equipment, are also critical factors.
- **Proximity to existing charging or other geospatial considerations:** Siting new electric vehicle service equipment based on gaps in the charging ecosystem can alleviate driver range anxiety by providing options for on-route or destination charging. The Task 3 site assessment results can help stakeholders identify the geographic zones where there is a higher need for EV infrastructure development in the region.
- **Ease of permitting and site approval:** Local permitting processes that impose high fees, are burdensome, or create projects delays can significantly impede electric vehicle charging station deployment. Permit delays in a particular jurisdiction may cause EVSE developers to locate EVSE elsewhere in the future and discourage potential site hosts from installing new EV charging stations. AB 1236 sets forth requirements for local governments to streamline electric vehicle permitting processes, as discussed in Chapter 2.
- **Property ownership arrangements:** Tenant/landlord relationships, building ownership, and management structures for (MUDs) present unique challenges and barriers to EVSE infrastructure development. The same is true for leased workplace properties. To be successful, innovative business models and approaches are needed for the MUD and leased workplace segments.

• Americans with Disabilities Act (ADA) requirements, accessibility, and security: Developers must carefully consider ADA requirements, where local interpretation of high-level guidance often determines how a project must proceed. For example, difference in ADA requirements for new buildings and remodels often exist within different local contexts. Other key factors related to accessibility include ensuring a safe path of travel from the EVSE installation, parking lot security, and access schedules. All three factors can greatly affect charger utilization and accessibility.

Total Number of	Minimum Number (by type) of EVCS Required to Comply with Section 11B-8121			
EVCS at a Facility	Van Accessible	Standard Accessible	Ambulatory*	
1 to 4	1*	0	0	
5 to 25	1	1*	0	
26 to 50	1	1	1*	
51 to 75	1	2	2*	
76 to 100	1	3	3*	
101 and over	1, plus 1 for each 300, or fraction thereof, over 100	3, plus 1 for each 60, or fraction thereof, over 100	3, plus 1 for each 50, or fraction thereof, over 100	

Table 7: Minimum Requirements for Accessible EV Charging Station Spaces

Source: 2016 California Building Code, Chapter 11B, Section 11B-228.3, Table 11B-228.3.2.1

To help ABM address these key factors, the project team requested that ABM deliver site assessments addressing the high-level siting recommendations outlined in the 2014 *Electric Vehicle Readiness Plan for the Ventura, Santa Barbara, and San Luis Obispo Counties.* These recommendations include:

- 1. Financial feasibility: Select sites must be financially feasible given available installation incentives or provide other real benefits to the site owners.
- 2. Visibility and accessibility: Select highest-utilization, highest-visibility, publicly accessible locations for the first few chargers. Examples include government office buildings, shopping malls, restaurants, hotels, parks, marinas, municipal parking garages, colleges, schools, and airports.
- 3. Power supply: Select a location where Level 1 (120/15A) or Level 2 (240V/40A), or Fast Charge (480 volt) electrical supply is or can be made available with relative ease and minimal cost.
- 4. ADA Access: Consider and comply with ADA guidelines for disabled access and take precautions to ensure that charger cord management is optimized to reduce risk of accident or injury.
- 5. Security: Select secure locations with adequate lighting.
- 6. Signage: Provide enforcement and other signs that comply with the Manual on Uniform Traffic Control Devices (MUTCD) and California Vehicle Codes (CVC).

7. Equipment Protection: EV chargers should be placed where they can be best protected from physical damage by such measures as curbs, wheel stops, setbacks, bumper guards, and bollards, while simultaneously taking into consideration ease of access to the charger, mobility of users, and foot traffic in the area.

Air District partners and CEC asked ABM to give special attention to site-specific ADA requirements, based on the California Building Code, since stakeholders have highlighted delays in EVSE permitting and project delivery when ADA requirements were not adequately addressed in site plans. The California Building Standards Commission adopted the accessibility standards for EV charging stations as part of the 2016 California Building Code (California Code of Regulations, Title 24), which became effective on January 1, 2017, and made California the first state to adopt specific accessibility standards beyond ADA requirements.¹⁹ California Building Code Ch. 11b-238.3.2.1 include the sections of code for EVSE accessibility requirements. Appendix E-3 displays the code.

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https://www.documents.dgs.ca.gov/dsa/access/2016CaliforniaCodes-electric vehicle charging stations_FactSheet_accessible.pdf
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¹⁹ Division of the State Architect, Department of General Services. Summary of 2016 California Building Code Changes for Electric Vehicle Charging Station Accessibility. Retrieved from: https://www.documents.dgs.ca.gov/dsa/access/2016CaliforniaCodes-electric vehicle charging

SECTION	TITLE	NOTES		
11B-228.3	Electric vehicle charging stations	Provides scoping for electric vehicle charging stations installed in new and existing facilities with Table 11B-228.3.2.1 to determine the number of accessible EVCS required. Provides reference to 11B-812 for technical requirements for EVCS.		
11B-812 Electric vehicle charging stations		Provides new section with technical provisions for EVCS.		
11B-812.1 General.		General requirements for the dimensions and marking of EV charging spaces and access aisles.		
11B-812.2	Operable parts.	Technical requirements for operable parts of the EVCS.		
11B-812.3 Floor or ground surfaces.		Technical requirements for floor and ground surfaces of the EVCS.		
11B-812.4	Vertical clearance.	Provisions for vertical clearance requirements at EVCS.		
11B-812.5	Accessible routes	Provides requirements for accessible routes to electric vehicle chargers and to a building entrance.		
11B-812.6 Vehicle spaces.		Provides dimensions for length of van accessible, standard accessible, ambulatory and drive-up EVCS.		
11B-812.7 Access aisle.		Provides requirements for the access aisle adjacent to the electric vehicle charging space.		
11B-812.8	Identification signs.	Provides general scoping for the technical sections for identification signs for accessible EVCS.		
11B-812.9 Surface marking.		Provides requirements for the surface markings at EVCS.		
11B-812.10 Electric vehicle chargers.		Technical requirements for electric vehicle chargers, which includes the requirements for operable parts, point-of-sale devices and location of the chargers in relation to the EV space.		

Table 8: 2016 California Building Code EVSE Accessibility Requirement Sections

Source: 2016 California Building Code, Chapter 11B, Section 11B-228.3, Table 11B-228.3.2.

Challenges

The Task 3 EVSE Site Analysis used empirical and anonymized data on regional travel to identify areas in the Tri-County Region where the demand for EV charging was likely to be highest for a variety of EV charging station users, including workplace employees, MUD residents, fleet operators, and drivers passing through the region for long-distance travel. Results of the Task 3 analysis were used to conduct targeted outreach to potential sites in areas that are likely to have a higher EV charging demand (referred to as "higher-priority zones"). However, it was difficult for the project team to find willing site hosts in many of these higher-priority zones. Interest from the site owner is the single most important factor for EVSE infrastructure development. Very few site owners will install EV charging stations unless there is some combination of:

- Incentive funding for EVSE infrastructure development
- A compelling and affordable offer for EV charging station installation and networking services from a third-party EVSE company
- Significant demand from customers, employees, or residents

Initial outreach to potential EVSE site hosts within the areas also highlighted challenges with obtaining and submitting the necessary documentation to ABM, which included a

site plan of the area, one-line electrical diagram, and 12 months of utility bills. In some cases, potential site hosts struggled to obtain and transmit high-quality copies of the required documents to the project team in a timely manner, which contributed to delays. In other cases, the requirement to obtain and submit documentation presented a barrier to continued engagement with the candidate sites - especially if the managing staff were already subject to a significant workload and had limited capacity to obtain documentation. Because of the challenges to obtain documentation from potential sites and the deadline to complete work on Task 5, the project team had to move forward with the first sites to turn in their documents, rather than the sites located in higher-priority zones identified in the Task 3 analysis. As seen in Figure 10 below, only the site assessment in Santa Maria fell within a Top 25 highest priority zone.

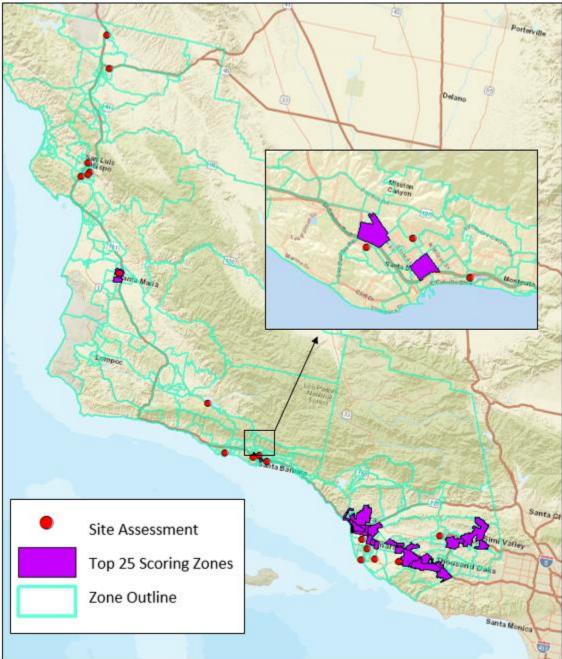


Figure 10: Location of Site Assessments and Tri-County Top 25 Scoring Zones from Task 3 EVSE Siting Analysis

Source: ABM Inc. and Fehr & Peers

It was noted in Chapter 3 that 21 of the 25 top scoring zones are in Ventura County. Because of this, the project team broke out the highest scoring zones by county. Instead of relying on the overall top 25 highest scoring zones for the region, the project team used the highest scoring zones by county to target EVSE site assessments. Figure 11 below shows the site assessment locations overlaid with the county regional rankings for Workplaces. Many site assessments in San Luis Obispo and Santa Barbara Counties were very near or in county based top ranking zones. Neither the overall top 25 scoring zones nor the highest scoring zones by county had significant overlap with the region's disadvantaged communities, which are all located in Ventura County. However, the project team had committed to complete at least 3 site assessments in the Ventura County's disadvantaged communities within the grant award agreement with the California Energy Commission. To meet this commitment and support clean transportation equity in the region, it was necessary to prioritize assessments in Ventura County's disadvantaged communities that were not identified as high-priority zones in Task 3.

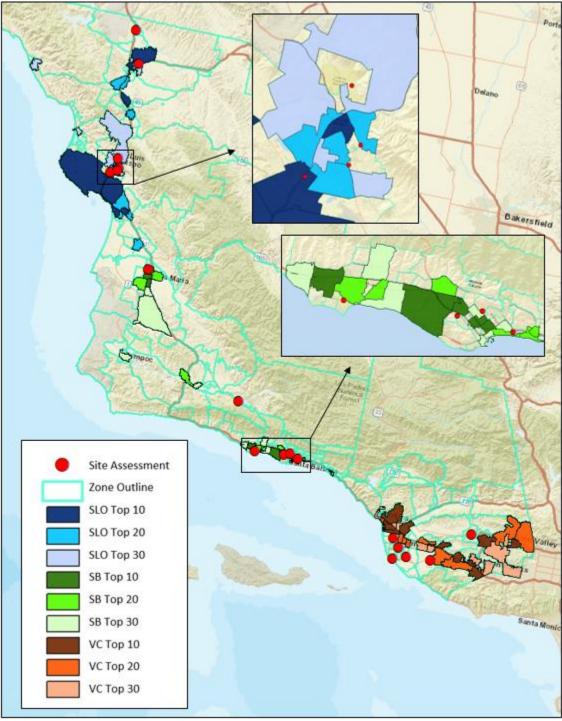


Figure 11: Location of Site Assessments and County Specific Top Scoring Zones from Task 3 EVSE Siting Analysis

Source: ABM Inc. and Fehr & Peers

The available budget for the site assessments was an additional challenge with this Task. Electricraft, the secondary contractor to ABM, stated that they only had enough funding to complete site assessments for 4 or less charging stations per site. However, several prospective site hosts wanted to move forward with larger EVSE projects with 10 or more charging stations. These site assessment recipients were not satisfied with their "permit-ready" documents and stated they would not move forward to construct their projects, would seek other bids, or change the scope of their project to better meet their needs and seek another assessment.

Communication among the project team also proved to be challenging. ABM and Electricraft did not notify the project team that each site assessments would be limited to 4 or less charging stations until several sites had been walked and permit-ready documentation was in development. As a result, Air District partners and CEC could not establish clear expectations about the limitations of EVSE site assessments in advance. This led to unnecessary confusion and frustration among some of the site assessment recipients intending to move forward with larger EVSE projects. ABM also contracted out the task of walking the sites and creating the preliminary drawings to Electricraft without providing a clear directive to update Air District partners and CEC. These members of the project team were therefore not well informed about EVSE site assessment scheduling, progress, and issues. This gap in communication left many site assessment recipients wondering about the status of their assessment for longer than necessary.

There were additional challenges related to the completeness of the "permit-ready" documents which ABM and Electricraft developed together. In some cases, these permit ready documents did not address ADA accessibility requirements for EVSE, despite repeated requests from the project team for site-specific EVSE designs that addressed ADA requirements and highlighted related facility updates (e.g. restriping parking spaces, new curb ramp, etc.).

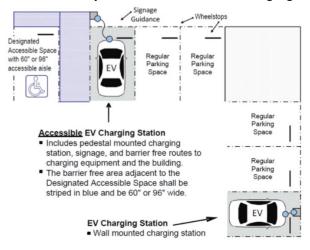


Figure 12: Typical ADA-Compliant Electric Vehicle Charging Parking Space

Source: Ventura County Electric Vehicle Ready Blueprint

The completion of all 18 site assessments proved to take much longer than anticipated. This was partially due to the late completion of Task 3, but also because of the difficulties with getting site hosts to turn in the 3 needed documents and stated communication issues with contractors delivering site assessment services.

Lessons Learned

Among the project team, the responsibilities of certain subtasks were not clear. For example, ABM believed their only task was to perform 18 site assessments for locations provided to them. The Air Districts and CEC were initially under the impression that ABM would analyze the Task 3 maps and communicate with site hosts to explain the process of getting a site assessment and answer any questions. To avoid later confusion and frustration among the project team, responsibilities should have been better defined in the project scope and restated throughout the progression of the task. Similar future projects could see more streamlined results and better communication if there is only one electrical contractor completing the site assessment work. Further, it would be best if this contractor can both identify the best site host leads with their own internal tools/methods and coordinate directly with the potential site hosts to secure needed documents, discuss their EVSE needs, and walk the site with them. Many of the issues and challenges for Task 5 could have been avoided with a simplified and streamlined process for EVSE service delivery and a single point of contact for the service rendered.

One important EVSE siting and permitting factor the project team did not consider is local government zoning requirements for parking space minimums. Local government zoning ordinances for MUDs and workplace destinations often include minimum parking space requirements. In some cases, these zoning codes stipulate that a minimum number of parking spaces be specifically dedicated to tenants or workplace employees. Parking spaces for publicly-accessible EVSE installations may not be counted towards the required minimum parking spaces for tenants or workplace employees – even when charging stations are intended for mixed use by the public and tenants or employees. If the installation of publicly accessible EVSE prevents MUD and workplace locations from meeting local minimum parking requirements, this can present a significant barrier to public EVSE development at key workplace and MUD locations. Furthermore, it can also prevent workplace and MUD locations from accessing local charging station incentives that include public accessibility as a funding award requirement. Future EVSE siting, permitting, and installation efforts should consider the minimum parking requirements set forth in local government zoning ordinances.

Next Steps

Four out of the six recipients of the site assessments performed in San Luis Obispo County have submitted an application to receive grant funding for their projects through the San Luis Obispo County Air Pollution Control District's Alternative Fuel Infrastructure Program. The SLO County Hospital on Johnson Avenue, Cal Poly University on Grand Avenue and the Paso Robles Joint Unified Bus Barn on Union Road will all be receiving Community Air Protection Program funding and the San Miguel Laundry location will be receiving local DMV funds from the Carl Moyer Program.

At this point, none of the six recipients of the site assessments performed in Santa Barbara County have moved forward with their EVSE projects. This lack of progress is likely attributed to a combination of overestimated project costs, not enough incentive funding being available, and site assessment recipients being dissatisfied with the "permit-ready" documents that they received. The Santa Barbara County Air Pollution Control District continues to work with several of these sites with the goal of hopefully moving forward with their EVSE projects in the future.

In Ventura County, both Ocean View School District and Oxnard Union High School District have been included in the CEC Grant Funding Opportunity (GFO-17-607) Notice of Proposed Awards posted on June 3, 2019. Both locations are in disadvantaged communities. The Ocean View School District has submitted an application to receive additional funding, if required, with the VCAPCD through the Carl Moyer Program, funded by local DMV vehicle registration fees.

CHAPTER 6: Zero Emission Vehicle Awareness

The main goal of Task 6 was to elevate awareness of ZEVs and ZEV fueling or charging infrastructure, with special emphasis on activities and projects that will promote equitable access to ZEVs across the region's diverse communities. The project team used a wide range of activities, ranging from broad community outreach events that allowed participants to get first-hand experience with ZEVs to one-on-one engagement that was carefully targeted to build collaboration with stakeholders. Task 6 outreach and engagement activities included:

- Green car showcases featuring PHEVs and/or FCEVs
- Test drive events allowing participants to drive or ride along in a PHEV and/or FCEV
- Workshops highlight the PHEVs and/or FCEVs options, operating characteristics, benefits, and ownership considerations for the region's drivers
- Information sharing about federal, state, utility, and local incentives for PHEVs and/or FCEVs
- Direct outreach to businesses, workplaces, property managers/owners, commercial destinations, K-12 school districts, universities/colleges, and local government staff
- Webinar and remote conference calls to support key stakeholders with ZEV infrastructure development

SLOCAPCD and their grant partners exceeded targets for several of the ZEV outreach and engagement activities scoped in the ARV-16-015 grant agreement. A summary of outreach activities is included in Appendix F-1.

In alignment with the goal to support equitable access to ZEVs and fueling or charging infrastructure, the project team conducted Task 6 activities in the region's statedesignated Disadvantaged Communities and/or Low-Income Communities whenever possible. To help ensure that key information about ZEVs was more accessible to the region's diverse communities, the project team also developed Spanish-language versions of all Electric Drive 805 outreach materials produced for Task 6.

According to 2013-2017 data from the United States Census, more than one third (39.7 percent) of Santa Barbara County's population and Ventura County's population (38.6 percent) speaks a language other than English at home.²⁰ Nearly one-fifth (18.2 percent) of households in San Luis Obispo County speak a language other than English according

²⁰ United States Census Bureau's QuickFacts for Santa Barbara County. Available at: <u>https://www.census.gov/quickfacts/santabarbaracountycalifornia</u>

to Census data.²¹ The number of households that speak a language other than English is much higher in some of our region's other communities. For example, this Census data for the city of Santa Maria estimates that more than half (65.4 percent) of households in the city speak a language other than English.²² Similarly, Census data for the City of Oxnard estimates that 67.9 percent of the city's households speak a language other than English.²³

Data from the Santa Barbara County Department of Behavioral Wellness estimates that there are also approximately 18,000 to 30,000 Mixtec Indian migrants living and working primarily in the Santa Maria Valley within the county's agricultural sector. According to the Mixteco/Indígena Community Organizing Project (MICOP), there are more than 20,000 indigenous people from Mexico in Ventura County.24 The Mixtec Indian migrants are primarily from the states of Oaxaca, Puebla and Guerrero in Mexico. In many cases, Mixtec Indians rely on their indigenous Mixtec language for communication and speak limited English or Spanish.25

The multilingual outreach materials developed for Task 6 are available in Appendix F-2.

Approach

Since a spectrum of ZEV awareness activities were conducted to reach a variety of audiences for Task 6, the specific approaches used varied. However, most ZEV awareness activities were focused on one of three audience areas: 1) general community outreach, 2) targeted community engagement, or 3) direct stakeholder engagement.

- 1. *General community outreach* (including most ZEV showcases and/or test drive events): intended to distribute information and/or provide first-hand experience with ZEVs to a large number of people from our region's diverse communities at existing events and large community gatherings.
- 2. *Targeted community engagement* (including most workshops and some ZEV showcases and/or test drive events): intended to share information that promotes ZEV awareness and adoption for a targeted group of community members, or to support stakeholders that have a special interest in ZEV infrastructure development.

²¹ United States Census Bureau's QuickFacts for San Luis Obispo County. Available at: <u>https://www.census.gov/quickfacts/sanluisobispocountycalifornia</u>

²² United State Census Bureau's QuickFacts for Santa Maria city, California. Available at: https://www.census.gov/quickfacts/santamariacitycalifornia

²³ United State Census Bureau's QuickFacts for Oxnard city, California. Available at:

https://www.census.gov/quickfacts/oxnardcitycalifornia

²⁴ Mixteco/Indígena Community Organizing Project (MICOP). *Mixtecs in Ventura County.* Available at: http://mixteco.org/mixtecs/

²⁵ Santa Barbara County Department of Behavioral Wellness *2018 Cultural Competence Plan.* Available at: <u>http://www.countyofsb.org/behavioral-wellness/Asset.c/5003</u>

3. *Direct stakeholder engagement* (including most one-on-one outreach to key stakeholders): intended to build collaborative relationships, share information, and promote ZEV infrastructure development through one-on-one engagement with key stakeholders (e.g. facilities managers, policy makers, human resources staff) at workplaces, property management companies, commercial businesses, local governments, K-12 school districts, and universities/colleges.

All outreach activities placed special emphasis on the region's Disadvantaged Communities and Low-Income Communities, as defined for California Climate Investments under Senate Bill 535 (De León, Chapter 830, Statutes of 2012) and AB 1550 (Gomez, Chapter 369, Statutes of 2016). Outreach to the region's Disadvantaged Communities and Low-income Communities was intended to expand EV awareness and support infrastructure development that will make cleaner transportation solutions more accessible to California's low-income and disadvantaged communities, in alignment with the goals and vision set forth in Senate Bill 350 (de León, Chapter 547, Statutes of 2015).

It is important to highlight that the state uses existing Census tract boundaries to identify Disadvantaged Communities and Low-Income Communities, but the true geographic extent of local environmental impacts and socioeconomic adversities do not conform to Census tract boundaries. In many cases, Census tract boundaries cut through our region's most impacted communities that currently bear a disproportionately high burden of pollution and socioeconomic stressors.

General Community Outreach

Almost all broad community outreach activities consisted of ZEV showcases and test drive events. Whenever possible, the project team conducted ZEV showcases and test drives at existing events, such as Earth Day Festivals and farmers' markets. Bringing ZEV outreach to existing events or locations where groups already gather is a key practice to engage people who would not be motivated or able to attend a standalone ZEV showcase or test-drive. In some, the project team combined ZEV showcases, test-drives, and workshops when a venue could accommodate a range of ZEV awareness activities.

Broad community outreach activities were designed to:

- Provide first-hand experience with ZEVs to members of the public and key stakeholders
- Help drivers identify the type of ZEV and vehicle models that could best meet their transportation needs
- Provide handouts and resources to encourage ZEV adoption and facilitate access to ZEV incentives

The project team conducted tabling during ZEV showcases and test-drive events to answer questions from community members, share resources about ZEVs, and facilitate access to incentive for PHEVs and/or FCEVs. Several ZEV showcases featured plug-in electric vehicles from local PHEV and FCEVs drivers who volunteered to display their personal vehicles at events. Most of the volunteering ZEV owners stay with their vehicles throughout the event so they can talk with community members about their experience and share insights about driving a ZEV.

In recent years, CEC and our the Electric Drive 805 partners have placed increasing emphasis on building a network of local PHEV and FCEV drivers who are interested in volunteering at ZEV awareness events. Involving volunteer PHEV and FCEV owners in ZEV showcases allows local community members to gain first-hand experience with ZEVs and learn about different vehicle options that could work for them without having to talk with a dealership salesperson.

Targeted Community Engagement

Most of the project's targeted community engagement activities consisted of ZEV workshops that the project delivered to employees at major workplaces, established community organizations, or stakeholder groups interested in ZEV infrastructure development or adoption. The project team delivered 6 workshops that were designed to share key information about ZEV options, their operating characteristics (including charging and hydrogen refueling), ownership considerations, and incentives. The presentations also highlighted the availability of EV charging stations and/or hydrogen fueling stations near the workshop location, as well as future plans for additional ZEV infrastructure development in the state and region. Presentations were followed with an open question and answer session with participants. A sample presentation from workshops conducted at UC Santa Barbara during National Drive Electric Week is included in Appendix F-3.

Air District partners and staff from CEC also conducted 3 webinar workshops on EVSE infrastructure for Task 6. Since many of the free EVSE site assessments were conducted at locations in Disadvantaged Communities and/or Low-Income Communities, the webinars were designed to support the 18 stakeholders that received free EVSE site assessments (see Task 5). The recipients of the Task 5 site assessments included businesses, workplaces, property managers/owners, commercial destinations, K-12 school districts, universities/colleges, and local government. The webinars were used to walk these stakeholders through draft EVSE site plans delivered by ABM, provide guidance on next steps for EV charging station installations, and share information about local Air District and utility EVSE incentive programs to help cover some installation costs.

To conduct the webinar workshops, the project team used Zoom and WebEx platforms for audio and video conferencing with participants. Air District staff presented a general timeline for EVSE project delivery and highlighted next steps to install EV charging stations installations, including opportunities to apply for District EV charging station grant funding. ABM's contractor team presented two draft EVSE site assessments during the webinar workshops. ABM walked participants through the draft assessments to explain key information about site plans for EV charging stations and price quotes for charging station hardware, installation, and network fees. CEC closed the Ventura and Santa Barbara presentations with a summary of utility EV charging station incentive programs and best practices for station management, including guidance for structuring charging station user fees.

Direct Stakeholder Engagement

The project team conducted direct stakeholder engagement activities for Task 6 to promote the free EVSE site assessments (see Task 5) and encourage EV infrastructure development at key locations, including workplaces, MUDs, and commercial/public destinations. The project team focused on key stakeholders that could be interested in installing EV charging stations or advance hydrogen fueling infrastructure development. Emphasis was placed on engagement to facilities managers, human resources staff, property owners, fleet operators, and local government decision-makers.

The project team used direct stakeholder engagement to:

- Increase stakeholder awareness of statewide goals for ZEV infrastructure development
- Share information about EV charging station technologies, vendors, and networking options
- Explain the standard EV charging station installation process and high-level EVSE siting recommendations
- Request and obtain electrical one-line drawings, site plans, and utility bills for the last 12 months for EVSE site assessments
- Highlight EV charging station incentives, including PG&E's EV Charge Network program, SCE's Charge Ready program, and local air district grant funding opportunities
- Identify local barriers, opportunities, and needs for ZEV charging infrastructure development

The project team and Electric Drive 805 partners used a collaborative process to develop a stakeholder outreach lists for candidate EVSE sites in each county. Each county's stakeholder outreach list was developed in a shared Google Spreadsheets, so all project team members and Electric Drive 805 partners could add sites and contact information to the lists together. A variety of approaches were used to identify stakeholder for outreach. Some of the locations to target for stakeholder outreach were identified with Google Earth and the geospatial results from the strategic EVSE analysis (Task 3). SLOCAPCD staff were able to convert ArcGIS shape files for the Task 3 analysis into Google Earth .kmz files, which allowed the project team to identify sites in highpriority areas for EVSE infrastructure development with Google's extensive locationbased data. Since the geospatial results for Task 3 also showed Low-Income Communities and Disadvantaged Communities, the project team was also able to identify additional locations for direct stakeholder outreach in these areas using Google Earth. The project team conducted collaborative meetings with Electric Drive 805 partners to share ideas about strategic sites for EVSE infrastructure development in each county, with special emphasis on low-income and disadvantaged communities.

After preliminary stakeholder outreach lists were developed for each county, the project team compiled contact information for direct outreach to specific locations. In some cases, Air District staff were also able to leverage existing agency data for their region to identify additional candidate sites for EVSE infrastructure development or to provide contact information for outreach to specific locations. Using this process, the project team was able to identify more than 400 candidate sites that could be targeted for direct outreach across the three counties. An email or phone number was collected for more than 214 of these sites and more than 120 sites were contacted during the project, including 40 employer/workplace locations, 11 fleet headquarters, 22 local government facilities, 9 multi-family properties, 32 schools, and 9 public/commercial destinations.

Engaged stakeholders represented major workplaces, property management companies, public/commercial destinations, K-12 school districts, colleges/universities, and local governments. Additional engagement was conducted to reach key stakeholders in the region's Disadvantaged Communities and Low-Income Communities to support with EVSE infrastructure development in these areas of need. A complete list for the 400 candidate sites that the project team identified is available in Appendix F-4.

Given the high cost and early market development for hydrogen fueling infrastructure, there was limited focus on direct stakeholder outreach related to hydrogen fueling station development for Task 6. However, Task 7 and 8 is centered on developing resources for and promoting hydrogen infrastructure.

Multilingual Outreach Material Development

Collaboration with Electric Drive 805 members was essential to the development of multilingual outreach materials. All outreach materials for Task 6 were drafted and designed to align with branding and messaging for the Electric Drive 805 collaborative's website (Task 2). CEC led the development of Electric Drive 805 outreach materials, with input from local government staff and Air District partners that are members of the Electric Drive 805 collaborative.

To begin the development of multilingual outreach materials, CEC drafted Englishlanguage text. After the English-language text was proofed, CEC created draft layouts and graphic designs for the one-pager and three tri-fold brochures. SLOCAPCD staff and Electric Drive 805 partners reviewed the draft English-language outreach materials and submitted recommended edits. After the English-language materials were finalized, SLOCAPCD staff completed Spanish-language translation since CEC did not have staff that were fluent in Spanish. Once CEC received the draft Spanish-language text from SLOCAPCD, their nonprofit's graphic designer created new versions of the outreach materials in Spanish. The Spanish-language outreach materials were sent to SLOCAPCD and the VCREA for final review and proofing by their Spanish-speaking team members. Additional guidance was obtained from Central Coast Alliance United for a Sustainable Economy (CAUSE) to help ensure that the multilingual outreach materials were culturally appropriate for target audiences. CAUSE is a community-based organization serving the immigrant and low-income Spanish-speaking communities across Santa Barbara and Ventura counties.

A one-pager and 3 tri-fold brochures were developed for Task 6. Since Spanish-language translations were developed for each of these print materials, a total of 8 handouts were developed. Table 9 summarizes the 8 different print materials that CEC developed for outreach activities with Electric Drive 805 partners. All Task 6 outreach materials are available in Appendix F-2.

#	Format	English-language version	Spanish-language version
1	One- pager	"Electric Drive 805: Who we are"	"Electric Drive 805: Quiénes somos"
2	Tri-fold	"Find the electric vehicle that is right for you"	"Encuentre el vehículo eléctrico adecuado para usted"
3	Tri-fold	"Charging FAQs"	"Las preguntas más frecuentes sobre vehículos eléctricos"
4	Tri-fold	"Workplace, fleet, and apartment/condo charging"	"Cargar en el lugar de trabajo, estacionamiento, o apartamento y condominio"

Table 9: Multilingual Outreach Materials

Source: CEC

Outcomes

ZEV Green Car Showcases, Test Drives, and Workshops

The project partners met or exceeded all targets for the number of ZEV green car showcases, test drives, and workshops in the scope of work for Task 6. The partners estimate that more than 19,000 people across the region were reached through the project's ZEV showcases, test drives, and workshops. Table 10 summarizes the total number of ZEV events conducted across the region, in each County, and in the region's Low-Income or Disadvantaged Communities. Appendix F-1 provides detailed information about ZEV showcases, test drives, and workshops.

COUNTY	ZEV Showcases	Test Drives	Workshops	Estimated Participants
San Luis Obispo	4	3	4	278
Outside LICs	2	2	2	230
Located in LICs	2	1	2	48
Santa Barbara	6	1	6	15653
Outside LICs	5	1	4	15377
Located in LICs	1	0	2	276
Ventura	3	2	3	3153
Outside DACs	1	1	2	93
Located in DACs	2	1	1	3060
Grand Total	13	6	13	19084

Table 10: Summary of ZEV Awareness Events

Source: CEC

A total of 13 ZEV showcases were conducted, which exceeded the target to produce at least 6 of these events, with at least two of the ZEV showcases taking place in each County. The ZEV showcases were held at a variety of venues, including but not limited to the University of California, Santa Barbara; the California Lemon Festival in Goleta; the 2018 Santa Barbara Earth Day Festival, San Luis Obispo Earth Day Festival, and Thousand Oaks Earth Arbor Day celebration; the Ventura 4th of July Street Fair; the Santa Maria Fiesta Patrias celebration; and the City of Oxnard Multicultural Festival. Of the 13 ZEV showcases, 6 were held in Santa Barbara County, 4 were held in San Luis Obispo County, and 3 were held in Ventura County. Nearly one-third of all ZEV showcases (4 total) were located in Disadvantaged Communities or Low-Income Communities.



Figure 13: 2018 Ventura 4th of July Street Fair ZEV Showcase 26

Photo Credit: Cameron Gray/CEC

The project team completed 6 ZEV test drive events in the region, which exceeded the target of 5 test drive events for Task 6. Of the 6 test drives completed, 3 were conducted in San Luis Obispo County (including one event in the county's Low-income Communities). One test drive was conducted in Santa Barbara County at the 2018 Santa Barbara Earth Day Festival. Two test drives were conducted in Ventura County, including a test drive at the Oxnard Multicultural Festival, which is located within a half-mile of a state-designated Disadvantaged Community. Fifteen test drives were delivered at the Oxnard Multicultural Festival, test-drive management issues prevented more from being completed. Thirty FCEV test drives were delivered at the Thousand Oaks Earth Arbor Day event.

Due to the limited availability of hydrogen in the region and higher cost of FCEVs, the project team placed more emphasis on PHEVs for most workshops. However, C5 and SLOCAPCD conducted a special hydrogen fueling station workshop and ride and drive for civic leaders, decision-makers, citizens, local and state fleets and local government officials in San Luis Obispo County on September 21, 2017. The workshop was held at the San Luis Obispo County Air Pollution Control District office. Workshop topics included an overview of existing and planned hydrogen fueling stations on the Central Coast; current fuel cell technologies and available fuel cell vehicles; the 2017 Tri-County

²⁶ A full set of photos form the City of Ventura 4th of July Street Fair ZEV showcase is available at: <u>https://drive.google.com/open?id=1e8b44jAbTGrZcsmwvbwMzzX-2e9FRULx</u>

Hydrogen Readiness Plan; hydrogen fueling station technology; and Caltrans' regional and local hydrogen fuel cell vehicle fleet planning. Following the workshop participants were invited to test drive the Toyota Mirai or the Honda Clarity.



Figure 14: Hydrogen Ride and Drive at SLOCPACD

Photo Credit: Melissa Guise/C5

Other workshops focused on ZEV deployment and infrastructure development for fleets in the region, including a workshop on electric school buses that C5 and SLOCAPCD conducted with the Electric Bus Workshop and Ride and Drive at the Paso Robles Joint Unified School District. Three bus manufacturers, GreenPower Motor Company Inc., Lion Electric and Blue Bird Buses were in attendance. An invitation was extended to all school districts in San Luis Obispo County. Twenty-five representative from seven school districts in San Luis Obispo County participated in the workshop and ride and drive. Topics covered during the workshop included; incentives offered through the SLOCAPCD and the California Air Resources Board; cost of infrastructure and charging times; and school bus specifications and range. Following the workshop, two buses were available for test rides. There were four test rides conducted which allowed all interested parties to experience the buses. The event was well received by the school districts on the Central Coast and several districts have expressed an interest in incorporating electric buses into their fleets.





Photo Credit: Vince Kirkhuff/SLOCAPCD

ZEV showcases and test drives had the biggest impact when these activities were integrated into existing events that already have high attendance. More than 30,000 people attended the 2018 Santa Barbara Earth Day Festival which featured 24 plug-in electric and fuel cell vehicles in a static display spanning one full block length. The 2018 SBEDF also featured 5 additional vehicles that were available for test drives, including 2 Toyota Mirai FCEVs, 1 Plug-in Prius Prime, 1 Nissan Leaf, and 1 Chrysler Pacific PHEV. During the two-day SBEDF event, staff from CEC provided a total of 248 test drives to festivalgoers.

The 2018 Earth Day Festival in San Luis Obispo featured a variety of electric and plugin hybrids vehicles including 2 Honda Clarities (one full electric and one plugin hybrid), 1 Chevy Bolt, 1 Chevy Volt, 2 Tesla model 3, 1 Tesla model X, 1 BMW i3 and 1 Nissan Leaf. Students from the California Polytechnic State University also displayed a solar car. Additional information and booths were set up to educate attendees about electric vehicle charging stations and solar power options.



Figure 16: Earth Day San Luis Obispo 2018 - Solar Car

The project team completed 13 workshops across the region. This included 6 workshops that were located in or served stakeholders from the region's Low-Income Communities and Disadvantaged Communities. Nearly half of the workshops (6 total) were designed to share key information about ZEVs options. The remaining workshops were targeted to specific stakeholder audiences and addressed either EV charging station infrastructure development, fleet electrification, or hydrogen fueling infrastructure development. These targeted workshops included 3 webinars to support the 18 stakeholders that received free EVSE site assessments for Task 5.

More than 300 people attended the 13 workshops delivered for this project. Some of the most effective workshops were delivered at UC Santa Barbara during National Drive Electric Week. CEC led 3 workshops at 3 different locations on the UC Santa Barbara campus in one day. A static display of 9 plug-in electric vehicles was set up at each workshop location, so workshop participants could look at plug-in electric vehicle models before and after the workshop. The static display included a Tesla Model 3, Chevy Bolt EV, Chevy Volt PHEV, Toyota Plug-in Prius Prime, Nissan LEAFs, Chrysler Pacific Plug-in, Fiat 500e, BMW 330e iPerformance, and BMW i3 Rex. The vehicles were brought by 4 participating car dealerships, the Santa Barbara County APCD, and a community member who volunteered to showcase their new plug-in electric vehicle.

More than 75 staff and faculty from UC Santa Barbara attended the workshops, which generated significant interest in plug-in electric vehicle adoption. CEC staff received at

Photo Credit: Melissa Guise/C5

least 6 follow-up phone calls from UCSB workshop participants seeking additional guidance to access incentives and purchase a plug-in electric vehicle in the coming weeks.



Figure 17: UC Santa Barbara Facilities Management Workshop and ZEV Showcase

Challenges

When the scope of work for Task 6 was developed in response to the California Energy Commission's GFO-16-015, the project team proposed activities to expand the reach of traditional ZEV awareness efforts. Our goal was to make outreach activities more inclusive of the region's diverse communities. To achieve this goal, the scope of work placed special emphasis on Spanish-language information sharing and broader engagement with the region's disadvantaged communities and low-to-moderate income households that are eligible for increased state incentives.

As the project team worked to implement ZEV awareness activities, it became increasingly clear that the internal capacity to deliver multilingual outreach and engagement activities varied across project partners. CEC did not have a fluent Spanishspeaking team member, which limited their ability to share information in Spanish at community events. Air District partners had Spanish-speaking team members to support translation and interpretation for outreach materials development. However, the demand for Spanish translation and interpretation services was already high, which limited the capacity for the Air District's fluent Spanish-speaking team members to

Photo Credit: Cameron Gray/CEC

conduct multilingual outreach at events and develop Spanish-language text for outreach materials. Due to these internal capacity issues, the project team was not able to deliver robust multilingual outreach for all of the ZEV awareness events with Spanish-speaking attendees.

The internal capacity challenges for multilingual outreach were most evident at the ZEV showcase conducted for National Drive Electric Week at the Santa Maria Fiesta Patrias celebration on Sunday, September 16, 2018 from 12 noon to 5pm. More than 95 percent of all the people we spoke with at the 2018 Fiesta Patrias event spoke Spanish and/or Mixtec as their primary language. Despite the language barriers, CEC was able to have nearly 25 interactions with Spanish-speaking families that wanted more information about EVs. In many cases, young adults and children in the families served as translators and made these interactions possible.

The project team also encountered challenges with partnerships for ZEV showcases and test drive events. Previous experience with ZEV awareness activities has shown that local automobile dealerships and OEMs seem to be the weakest links in regional efforts to promote ZEV adoption. It can be very difficult to motivate participation in ZEV showcases and/or test drives from local automobile dealerships and marketing representatives with automobile OEMs. Outreach to these stakeholders for this project's ZEV awareness activities followed past trends and had a mixed track record of success, even with recent growth in California's EV market. There is a need for both local and statewide programs that can effectively motivate increased collaboration for ZEV awareness activities among automobile dealerships and OEMs.

CEC also encountered significant challenges for the Oxnard Multicultural Festival's ZEV test drive. The project team encountered delays with City permitting and approval for the event. CEC began working with City staff on permitting and approval in mid-June of 2018, nearly 5 months before the Oxnard Multicultural Festival was scheduled to take place but approval was not received until late August 2018. As a result, CEC had less than 3 months lead time to coordinate, plan, and organize the event with partners. Due to the tight timeline, the project team approached SCE and Plug-in America (PIA) to see if they could support the test-drive event. Since the test-drive was located in a disadvantaged community, SCE was able to provide funding to PIA staff, so their team could lead coordination for the test-drive.

The project team worked extensively with PIA to plan the Oxnard test-drive, put the necessary insurance coverage in place with the City of Oxnard, and secure test-drive vehicles in the months leading up to the event. On Thursday, October 4, 2018, PIA contractors notified the project team and City of Oxnard staff that they intended to cancel the test drive. Notice of the planned test-drive cancelation was given less than 48 hours before the event was scheduled to take place.

PIA's contractors cited an insufficient number of test-drive vehicles as their reason for canceling the test-drive, even though CEC had confirmed 4 vehicles from three different

manufacturers for the test drive. After extensive discussion with City of Oxnard staff and CEC, the leadership for PIA arranged to have 2 of their organization's PHEVs available for ride-along at the event (a Nissan LEAF and Chevy Volt). None of the dealerships that originally planned to make vehicles available for test-drives were able to participate after the last-minute cancelation notice was sent from PIA. Due to the partnership challenges with PIA and the small number of vehicles available, only 15 ride-along trips were delivered at the event.

Lessons Learned

Challenges related to multilingual ZEV outreach and engagement provided a variety of lessons. The project team members, Air District partners, and Electric Drive 805 members learned that there is a need to increase their internal capacity for multilingual outreach. If there are limited opportunities to increase the internal capacity for multilingual ZEV outreach, the project team could focus on ZEV outreach activities that target K-12 schools and community-based organizations serving youth from the region's predominantly Spanish-speaking areas. Interactions between the project's outreach teams and Spanish-speaking families made it clear that youth and young adults tend to be multilingual and can be a key provider of information for their Spanish-speaking family members.

Issues with the Oxnard Multicultural Festival also provided important lessons about test-drive planning and coordination. In particular, it became increasingly clear that internal capacity issues at the City of Oxnard were a major factor in delayed permitting and approval by City staff. CEC collaborates with local governments across the 805-region and their staff have noticed that many local governments serving a higher percentage of low-income, rural, and/or disadvantaged households are much more likely to be resource constrained. Based on CEC's experience, a lack of local government funding and resources can greatly reduce the capacity of local government staff. When local government staff have a high workload and limited capacity for engagement, their ability to support ZEV outreach and infrastructure development is diminished - especially if their local government leaders have not established a clear mandate prioritizing zero-emissions transportation planning and projects for their communities. The under resourcing of local governments that serve low-income, rural, and/or disadvantaged households reinforces a cycle of underinvestment and impedes equitable access to clean, zero-emission transportation solutions.

The partnership issues with PIA for the Oxnard Multicultural Festival's test drive also provided important lessons about the permitting, planning, and coordination timespans that are needed to ensure successful test drive events. CEC intended to begin dealership outreach for the Oxnard test drive with at least 3-months lead time before the event date, so there was sufficient time to conduct outreach and motivate participation from automobile dealerships. However, due to the approval and permitting delays, the project team had only two months to collaborate with PIA and secure test-drive vehicles for the event from dealerships. Given the challenges with motivating dealership and/or OEM participation in local ZEV test-drive events, this timeline was not adequate to bring in the number of test-drive vehicles that PIA was required to deliver for the event under the terms of their agreement with SCE. Based on this experience, CEC will more strictly adhere to a best practice requiring all permits and approval for test-drives at least 3 months before the event date.

Next Steps

According to University of California, Davis research conducted in 2016, fewer than 35 percent of households were aware that the State offers electric vehicle rebates and less than half of all people could name a single electric vehicle model that was currently available.²⁷ The researchers' conclusions were clear: Californians are not deciding they don't want electric vehicles. Rather, they remain "to a great extent unaware of electric vehicles and anything about them". Extensive public outreach and engagement to promote electric vehicle adoption and infrastructure development will be needed to advance zero-emission transportation solutions, so the region can reduce GHG emissions, improve air quality, protect public health, and help households lower their transportation costs. The following steps will help create broad electric vehicle awareness and expanded infrastructure development, which will be crucial to delivering the many benefits of cleaner, zero-emission vehicles to communities across the region.

- 1. Develop and adopt local government policies that establish a clear mandate to support broad public outreach and engagement to expand ZEV awareness.
- 2. Prioritize funding and staffing to support ZEV outreach, education, and engagement activities. Incorporating electric vehicle awareness into fiscal year budgets on a recurring basis will help ensure that there is a reliable and continuous stream of funding to support these activities.
- 3. Create local ZEV Coach positions. ZEV Coaches will coordinate awareness activities, help local entities navigate the process of planning for electric vehicle adoption, and facilitate charging infrastructure development. ZEV Coaches will provide direct consumer assistance (e.g. helping people identify the electric vehicle options that meet their needs, answering questions about ZEV incentives, and sharing information about EV charging stations or hydrogen fueling stations).
- 4. Identify ongoing funding and resources for a regional ZEV Ombudsman. The ZEV Ombudsman will help to coordinate and align ZEV implementation activities with

²⁷ Ken Kurani and Scott Hardman. "Automakers and Policymakers May Be on a Path to Electric Vehicles; Consumers Aren't." UC Davis Institute of Transportation Studies. February 2018. Accessed July 2, 2019. Available at: <u>https://its.ucdavis.edu/blog-post/automakers-policymakers-on-path-to-electric-vehiclesconsumers-are-not/</u>

local government partners and key stakeholders across the 805 region. The ZEV Ombudsman will also expand and maintain the clearing house of ZEV resources developed for the Central Coast ZEV Readiness Implementation project, including the Electric Drive 805 website. ZEV Coaches will collaborate with the ZEV Ombudsman to secure additional funding, maintain a clearing house of locally-targeted ZEV resources, and conduct targeted stakeholder outreach with special emphasis on low-to-moderate income households, rural areas, and statedesignated Disadvantaged Communities in the region.

- 5. Develop, implement, and iteratively update a set of key performance indicators that can be used to evaluate and continuously improve the success of electric vehicle engagement activities over time.
- 6. Deliver all ZEV outreach and engagement activities in the multiple languages spoken throughout the region, using messages and engagement approaches that are culturally appropriate for reaching the intended audiences.
- 7. Develop multilingual resources and media campaigns to increase awareness of ZEV options, facilitate access to available ZEV incentives, and help people learn about EV charging and/or hydrogen refueling locations in their communities.
- 8. Create a package of toolkits to support transportation electrification and regional electric vehicle charging infrastructure development including: 1) fleet electrification toolkits targeting public agencies, transit, and goods movement; 2) MUD charging toolkits targeting property managers to support multifamily residential electric vehicle charging infrastructure development; 3) workplace charging toolkits targeted to support electric vehicle charging infrastructure development toolkits targeted to support electric vehicle charging infrastructure development toolkits targeted to support policy development and public electric vehicle charging infrastructure development.
- 9. Launch a 2020 Electric Drive 805 campaign in partnership with key electric vehicle stakeholders, including local governments, SCE, Community Power Alliance, Monterey Bay Community Power, Electrify America, electric vehicle service providers, local automobile dealerships, the VCAPD, SBCAPCD, SLOCAPCD, C-5, VCREA, and relevant non-governmental organizations. The campaign could include: 1) dealership and sales training; 2) the launch of new or increased local electric vehicle incentives; 3) sales and marketing strategies to accelerate electric vehicle deployment; 4) electric vehicle showcases and Ride and Drives (i.e. test-drive events); and 5) collaborative promotional campaigns with the region's utilities, CPA, and/or MBCP that link their ratepaying customers to ZEV resources, incentive applications, and best practices.
- 10. Conduct at least 6 annual, brand-neutral ZEV showcases and/or test drives at existing community events.
- 11. Build a regional network of ZEV owners who are willing to volunteer and support community outreach activities and events, so members of the public can engage directly with local ZEV drivers and learn from their experience. The EV Advocates

of Ventura County, a volunteer group formed in 2014 to support electric vehicle development, is a model for ZEV-drive-led advocacy, education and outreach.

- 12. Partner with CPA and MBCP to design an optimized EV support pilot program, including: 1) streamlined incentives administration; 2) education and outreach in alignment with Electric Drive 805 campaigns; 3) EV fleet transition assistance; 4) support multifamily residential charging infrastructure development; 5) targeted EV awareness to low-to-moderate income households; and/or 6) launch of a group purchasing program that provides limited-time discounts on new, leased, and/or used electric vehicles.
- 13. Track the One-Stop-Shop electric vehicle incentive application pilot project. CARB and GRID Alternatives are currently developing the One-Stop-Shop application for the pilot project, which will allow low-income consumers in select areas to apply for all available electric vehicle incentives with a single form.

CHAPTER 7: ZEV Safety Training for First Responders

In 2017, the Tri-Counties Region completed the Tri-Counties Hydrogen Readiness Plan (THRP). The plan included a number of recommendations for implementing the acceptance of hydrogen-fuel transportation, one of which was to ensure the development of local competency and resources for delivering hydrogen training to first responders.

Hydrogen training for first responders is essential for ensuring a safe and acceptable management of hydrogen in our communities. First responders will be at the front line if and when an incident or accident occurs involving hydrogen. This applies to FCEVs, hydrogen deliveries and hydrogen dispensing infrastructure. In addition to having risks associated with the use of hydrogen, FCEVs and BEVs both have high voltage electrical risks that first responders need to be aware of and be able to respond to safely.

Through the initial TRHP planning activities in the Tri-Counties, it became clear there are a limited number of trainers and training organizations delivering this type of training in California. Often the training is not offered when a response agency has the most need, and it is potentially expensive and logistically complex to engage with outside trainers to deliver this service locally.

The TRHP also pointed out the local Fire Departments have significant limitations with respect to time availability for holding hydrogen training for responders because of seasonal commitments and other demands for training. Also, since the fast charging and hydrogen infrastructure build out is not expected to occur uniformly over time in all cities and counties across the region, it may not be appropriate for all Fire Departments to make hydrogen and EV response a training priority at corresponding times.

Due to the current limitation of competent trainers to provide timely ZEV training to First Responders, this task was proposed to have a small number of competent individuals become qualified to provide this training by attending a "train the trainer" class.

Accordingly, the task involved two main elements:

- Review and consolidation of hydrogen safety emergency response manuals
- Conduct two or three trainings for first responders locally, and prepare training course follow-up reports

Approach

Hydrogen Safety Emergency Response Manuals

The team working on this task was committed to ensure local response training would be delivered using state-of-the-art resources, and those training materials should be made available to trainers and trainees. This would ensure all locally delivered training would be based on a consistent set of course materials developed by a reputable organization. The hydrogen response training materials developed and made available through the U.S. Department of Energy (DOE) Pacific Northwest National Laboratory were identified as the best resource for this purpose. These are available at the <u>h2tools.org/training-materials</u> webpage. The webpage provides an extensive library of training materials that the local trainers can draw from and adapt to local needs.

Another source of useful information to assist those responding to hydrogen and/or electric vehicle accidents are the Emergency Response Manuals (ERMs) available from the Original Equipment Manufacturers (OEMs) which identify vehicle-specific hazards associated with on-board hydrogen and high-voltage systems. These include quick response guides that are likely to be extremely helpful in an emergency. Selected ERMs are included in Appendix G-1.

Safety Trainings – Initial Approach

In this task, the original intent was to recruit at least two professional safety/emergency response trainers in the Tri-Counties that would become trained to deliver this specific training to first responders in the region. These trainers would attend an appropriate train-the-trainer course to develop the capability for delivering this training and become familiar with training resources that are available and appropriate. The trainers would then be available to conduct two or three train the trainer classes locally during the term of this agreement.

Potential venues for obtaining this initial training were identified, including courses offered by the California Fuel Cell Partnership (CaFCP), the DOE National Laboratories, University of West Virginia Alternative Fuels Training Center, as well as from industry associations (such as the Hydrogen Safety Center of the American Institute of Chemical Engineers (AIChE)), and/or national standards institutes (such as the National Fire Protection Association).

During the initial efforts to implement this task element, two unforeseen problems came up that needed to be resolved. First, the team was not able to identify two suitable professional safety trainers locally who were interested in completing the hydrogen first responder training to become trainers themselves. Second, there were no training courses scheduled through the organizations listed above within the timeframe of this planning task. As such, an alternative approach was proposed by the team and a change was proposed to the Energy Commission in mid-March 2019 and was approved in mid-May 2019.

Safety Trainings – Revised Approach

As an alternative way of meeting the objective for this training task, the revised approach was to reallocate a portion of the grant funds for this task to hire Ms. Jennifer Hamilton to visit the Tri-Counties to deliver the training locally. Ms. Hamilton is a qualified professional trainer associated with the CaFCP and Frontier Energy. As a result, the scope for Task 7b was changed to conduct a minimum of two one-day, safety trainings for first responders in the Tri-Counties region. Ideally these training opportunities would be hosted by local Fire Departments and delivered at their training headquarters. However, due to venue availability limitations, the two training sessions were scheduled to be hosted at the local APCD offices on August 20 in San Luis Obispo and August 21 in Santa Barbara. The trainings were mainly publicized to the local first responder organizations consisting of fire departments and law enforcement.

Outcome

Hydrogen Safety Emergency Response Manuals

The project team compiled emergency response manuals from the OEMs for a number of hydrogen FCEVs and Battery Electric Vehicles and they can be found in Appendix G-1.

Safety Training – San Luis Obispo

On August 20th, 2019, the project team hosted a Safety Training at the SLOCAPCD. Fifteen SLO County based fire personnel attended the training. A training course report for the San Luis Obispo safety training that documents the training materials used, the trainer name, the course content, the number of attendees, feedback, and opportunities for improvement is included in Appendix G-2. Training course materials and URL links to the H2Tools website will be posted online on the SLOCAPCD website so first responders in the Tri-Counties can access the tools in the future. By providing a link to the H2Tools website, first response agencies will be able to access current training information and content.

The PowerPoint presentation used for the San Luis Obispo training session was taken from the H2Tools training resource and adapted where appropriate for the local training. Adapting the materials to make them relevant and applicable to the current situation of hydrogen deployment in the Tri-counties. It is important to recognize the H2Tools training covers risks from a hydrogen release as well as exposure to high voltage. Therefore, the training is applicable to FCEVs as well as high voltage Battery Electric Vehicles and hybrids.

Feedback from attendees at the training was positive. The first responders appreciated the opportunity to learn about hydrogen safety, hazard recognition, and best practices for responding to vehicle, facility incidents and accidents could occur. Attendees recognized the training is helpful even at the "early stage" for hydrogen deployment in the Tri-Counties, knowing hydrogen vehicles are already traveling through the region and the population of BEVs and hybrids are increasing.

The task was successful in promoting the need for hydrogen training and initial progress has been made in having qualified individuals trained locally to provide this training going forward. With 15 fire personnel from SLO County based fire departments

completing the initial training in San Luis Obispo on August 20, 2019, the local capability is in place to conduct future trainings to first responders using the materials available when the need arises.

Safety Training – Santa Barbara

For the Safety Training course that was initially offered on August 21st, 2019, there was insufficient response to hold the class. As such the class was rescheduled for October 29th. The venue for this training was at the SBCAPCD. Again, there was a low response, in part due to the many wildfires happening in the State at this time, but the training did take place with three attendees. Documentation of this course with the trainer name and the number of attendees is also included in Appendix G-2. Training course materials and URL links to the H2Tools website are being posted online on the SLOCAPCD websites, so they are accessible to attendees and to first responders in the Tri-Counties at any time they are needed in the future. By providing a link to the H2Tools website, first response agencies will be able to access current training information and content.

Feedback from the Santa Barbara course attendees was also positive. In this case, the attendees included safety and environmental professionals who expressed interest in supporting the deployment of hydrogen infrastructure going forward. In this respect the fundamental goal of having training resources available locally has been met through these trainings.

Overall this task was successful in promoting the need for hydrogen training, and initial progress has been made in having qualified individuals trained locally to provide this training going forward. With the additional three professionals completing the course in Santa Barbara on October 29th, the Tri-County capability is in place to conduct future trainings to first responders using the materials available when the need arises.

Lessons Learned

Fire agencies are required to provide extensive training to their first responders, and it is challenging to get anything "new" added to the training calendars. It requires a patient and persistent effort to help these agencies appreciate the importance of hydrogen and high voltage training applicable to our evolving transportation systems. Once this is recognized, the training that can be offered and delivered is appreciated.

Another lesson learned is "non-essential" hydrogen response training should not be scheduled and promoted during the "peak fire season".

In addition, it is important to maintain contact with training officers at all the responder agencies in the Tri-Counties. People and positions change frequently in these agencies, so it is desirable to maintain current contact details and keep the fire departments aware of hydrogen training opportunities. This begs the question as to where the long-term training responsibility lies. The organization or entity identified needs to be recognized as the "go to" for vehicular related hydrogen and high voltage information. This could be at the regional or state level.

Next Steps

With the anticipation of a growing hydrogen infrastructure in the Tri-Counties, it is invaluable to have the resources and materials to perform first responder safety training as needed. The training will most likely be called for when new stations are installed in the region. To take best advantage of the training conducted in this project, the following next steps are recommended:

- First, maintain current copies of the training materials on the local APCD websites, and make these materials available to first response agencies whenever requested.
- Second, maintain active engagement with the agencies who participated in this training and the agencies contacted through the promotional efforts of the training. Our team made direct contact with a number of primary response agencies locally that expressed interest in the course but were unable to participate at this time.
- Third, establish a list of professional trainers who are willing and able to present the training when requested by the local response agencies. This list should be in addition to the capable trainers within the agencies who can perform this training internally. Being able to perform this training locally is greatly facilitated through having a standard and validated training materials available through the H2Tools resource website.
- Fourth, continue to engage with the experts that have developed and piloted the First Responder Safety Training courses to take advantage of their personal experience and to stay informed of developments. In particular, these include Ms. Jennifer Hamilton of the California Fuel Cell Partnership and Mr. Nick Barrillo of the DOE Pacific Northwest Laboratory.
- Fifth, monitor the safety performance of hydrogen fuel cell vehicles and fueling stations with a particular emphasis on learning from incidents and accidents that may occur. The investigations that are performed after such incidents occur provide important information that can be beneficial to first responders universally as they are called to respond to hydrogen incidents more frequently in future years. The H2Tools website is a useful starting place for this activity.

CHAPTER 8: Hydrogen Readiness Station Siting

In 2017, the Tri-Counties Region completed the Tri-Counties Hydrogen Readiness Plan (THRP)**28**. The plan included a number of recommendations for implementation, one of which was to establish a list of retail gas station owners and operators that would be willing to site a hydrogen dispenser onsite. Siting hydrogen stations at existing retail fueling stations is a natural extension of existing fueling habits. Another recommendation was for local agencies to engage with installers to encourage and facilitate their interest in developing hydrogen infrastructure in the region.

From the preliminary planning work, it was clear having a station in San Luis Obispo county was a priority to provide connectivity along the Highway 101 corridor, and having at least two hydrogen stations closely located in the region to allow local dealers to establish timelines and pathways for making FCEV sales and servicing available at local dealerships.

This task was designed to implement the THRP recommendations to assess local hydrogen fueling infrastructure needs and siting options for stations. The initial THRP identified potential locations within the region where early sales of FCEVs could be expected if the hydrogen infrastructure were developed to support such sales. Ultimately, commitments from existing gasoline (retail) station owners are needed for hydrogen station developers to proceed with installations when funds become available.

Currently, hydrogen stations are installed in Thousand Oaks and in Santa Barbara, but there are no other stations in place or in development between Santa Barbara and San Jose. There is clear need for additional stations in the Tri-County region to provide connectivity, destination sites and ultimately new market-based centers for local FCEV vehicle sales and use. This could be facilitated if there were agreements in place between retail station owners and installers. The FCEV manufacturers and FCEV owners have noted a strong desire to have more stations along the Highway 101 corridor and there is also a need for additional stations to enhance connectivity and destination travel between the Central Coast and the Central Valley Highway 5 corridor.

Approach

The goal of this task was to encourage retail gas station owners to consider making their properties available for the installation of hydrogen dispensing equipment. Station

²⁸ https://www.ourair.org/wp-content/uploads/Tri-CountiesHydrogenReadinessPlan-NoAppendix.pdf

owners in general should be aware that hydrogen fuel is becoming more available throughout California, and this represents a new business opportunity which will likely grow over time. Ideally, the station owners expressing interest should be aware of installers that would be willing to work in the Tri-Counties region, and vice versa. The intent of this task was to help establish preliminary agreements between retail station owners and hydrogen system installers so applications for funding could be made whenever funds become available for hydrogen stations.

The THRP report included preliminary lists of existing stations that looked favorable for siting hydrogen based on a number of subjective criteria. The current task is intended to take the next step in this site selection process through the implementation of three subtasks as follows:

1. Engage with Station Owners

The hydrogen station siting analysis already completed in the THRP planning project was used to identify a sample of suitable retail stations interested in connecting with hydrogen station developers. Station owners and operators were asked about their willingness to site a hydrogen dispenser at their stations. This was accomplished with phone calls and/or personal visits using contact information available from the three APCDs in the Tri-Counties region, with their permission. Owners who expressed positive interest were noted, but many were reluctant or skeptical at first. It was emphasized this was a preliminary inquiry process, and no promises could be made that implied their stations would be funded.

While the THRP analysis includes specific lists with subjective suitability ratings, there were often several good options for hydrogen installation in most priority areas. It was important to ensure preferential treatment was not given to any owner or fuel brand in this assessment process.

2. List of Hydrogen Station Installers

The second step in the work activity was to make an inclusive list of hydrogen station installers and reach out to them to determine their degree of interest in providing installation services in the Tri-Counties region. A list of about 15 reputable companies was identified. The list was compiled using information from the Energy Commission's public process for funding light duty vehicle hydrogen refueling infrastructure which includes names of installers who have previously shown interest. The FCEV OEMs and their representatives were also contacted to see if there are other qualified installers to add to this list. Throughout this process, our team was mindful of being impartial when identifying and contacting installers. Suggestions were also provided by the CAFCP for reaching additional stations installers.

These installers were contacted directly by email and telephone to explain the initiatives underway in the Tri-Counties to promote FCEVs and hydrogen-fueled transportation, and to invite communication with our team and/or the retail station owners expressing willingness to consider hydrogen dispensing. Installers were encouraged to engage with station owners directly to establish preliminary agreements for hydrogen station installations.

3. Tentative Commitments and Agreements

The third step was to maintain contact with station owners and installers to monitor progress, and to determine where preliminary commitments and agreements might be reached. Over the term of this project, a number of interactions took place. The "site assessment process" was intended to establish commitments from existing (retail) station owners, and hydrogen system installers to proceed with hydrogen dispensing systems, when government funds become available.

The following provides a quick reference summary of the approach:

- Make contact with station owners and operators (identified in the THRP) to discuss their willingness to site a hydrogen dispenser at their stations.
- Develop a list of station owners expressing willingness and interest in siting hydrogen infrastructure at their station location(s).
- Engage with an inclusive list of hydrogen station installation providers to determine their degree of interest in providing installation services in the Tri-Counties region.
- Encourage hydrogen station installers to engage with station owners to establish preliminary agreements for hydrogen installation and share lists of the more favorable locations.
- Complimentary and parallel hydrogen station support activities

During the course of this implementation effort, the SLOCAPCD made the decision to offer a grant award to the first hydrogen station installer to develop a hydrogen station in the SLO County. This development was not part of the initial task description agreed upon for this Energy Commission project, but because the SLOCAPCD grant notice was distributed to the same list of hydrogen station installers, there were a number of synergies that came up in which the implementation team was able to take into consideration. For example, the request for proposals (RFP) involved additional outreach efforts to the installers, including an RFP webinar, and a number of calls to state agencies and other hydrogen/fuel cell stakeholders, such as the California Fuel Cell Partnership (CaFCP). These complimentary efforts supported the overall outreach effort for this Energy Commission grant task. It should be noted there are three San Luis Obispo County cities included in the February 11, 2019 CaFCP OEM list of priority California station locations. The list also includes two Santa Barbara County cities and three cities in Ventura County.

Also in parallel with this task, the project team maintained communication and dialogue with the FCEV OEMs and their agents to stay informed of their preferences for new

stations in the Tri-Counties, and also to monitor timelines and pathways for making FCEVs and FCEV maintenance available through dealers in the region.

Outcome

Two of the three products associated with task are included in Appendix H. These include the list of retail station owners expressing an interest in siting a hydrogen system, and the current list of hydrogen station installers that are active in California, noting those expressing interest in working within the Tri-Counties.

Ultimately, the team was not able to obtain copies of any preliminary agreements between station owners and installers, so no agreement list was created. However, it was evident that discussions were taking place to explore station possibilities in the Tri-Counties. In retrospect, it is understandable the installers may not want it to be public knowledge that they are negotiating with station owners, knowing most applications for government funding is done on a competitive basis. It would be unwarranted to speculate on the potential agreements that might transpire, but the engagement with station owners and installers is an important step.

Continued discussions and dialogue with station owners is warranted, especially to assure them none are categorically excluded from the funding opportunity, and prospects should be pursued if the motivation and commitment is present. Of course, the potential for funding will depend on site suitability, for example in terms of location and footprint.

Lessons Learned

A key lesson learned is installers are reluctance to share information about relationships with station owners whenever there is a competitive process in play for government funds to support installations. Recognizing this, the role of local agencies in promoting the opportunity for siting hydrogen stations would likely be limited to awareness building with the station owners.

The anticipated changes to the way in which the Energy Commission allocates funds for station installations may have led to a more guarded process on the part of the installers. For example, the proposed Energy Commission decision for station installers to develop a tranche of stations with batch prioritization introduces further complexity to the process of station matchmaking. Additionally, the much-anticipated Grant Funding Offer from the Energy Commission for the next round of hydrogen station funding has been delayed and this may be creating some uncertainty with installers and station owners.

Next Steps

Based on the lessons learned in this task, it is suggested the Energy Commission consider setting up a more inclusive process for collaborating with local government agencies such that the local agencies are clear on near term funding opportunities from the State. Local agencies would likely be more proactive in outreach efforts with station owners if they knew a station in their jurisdiction was being sought for funding. With the current process, jurisdictions are not given a clear indication from the state about such near-term priorities. This has to be made clear before permitting agencies are ready to commit time and effort into streamlining the permit process.

Local agencies who are not in the core (urban) market areas for hydrogen deployment could also better support hydrogen infrastructure development in their regions if there were separate funds available for rural areas where connector and destination stations play a critical role in facilitating trans-state mobility. A good example of this is the 101 corridor between Los Angeles and San Jose. Each station then becomes an anchor point for growing the statewide network for FCEVs. Siting and funding criteria for these need to be different than for stations in core markets.

Local agencies in the Tri-Counties region are expected to continue to maintain relationships with station owners and installers, and also monitor the changing landscape for funding from state agencies. The Tri-Counties region recognizes the potential for FCEVs to play a significant role in reducing tailpipe emissions and provide consistency with SB 32's GHG emission reduction goals from the transportation sector. The county agencies will continue to offer support to local station owners and hydrogen fueling station developers with an interest in building stations in this region. This support is likely to emphasize promotion and awareness to the station owners and the public in general.

The success of these endeavors will call for patient and persistent engagement with the various stakeholders, as evidenced by the SLOCAPCD RFP offering match funds for a local station. This action demonstrates the local agency's sincere commitment to secure a hydrogen station in SLO County as part of their ZEV infrastructure support.

REFERENCES AND RESOURCES

"Bilingual report: Effort launched to transition county drivers to electric vehicles." *Amigos805.com.* January 23, 2019. Available at: https://amigos805.com/bilingual-report-effort-launched-to-transition-county-drivers-to-electric-vehicles/

"Electric cars cost less than you think." *Santa Barbara Independent.* Amelia Buckley. February 1, 2019. http://m.independent.com/news/2019/feb/01/tri-county-initiative-aims-increase-electric-vehic/

"Electric Drive 805 coalition aims to increase EV access in Santa Barbara, SLO, Ventura counties." *Santa Maria Times*. Mike Hodgson. January 28, 2019. https://santamariatimes.com/news/local/electric-drive-coalition-aims-to-increase-ev-access-in-santa/article_39457904-c005-5a99-871c-f4f24351701d.html

"New Coalition hopes to bring more electric cares to the Central Coast." *KEYT*. Nathlie Vera. January 29, 2019. Available at: https://www.keyt.com/news/environment/new-coalition-hopes-to-bring-more-electric-cars-to-the-central-coast/994889490

Assembly Bill 1236 Local Ordinances: electric vehicle charging stations (Chiu, 2015). Signed into law October 8, 2015. Full text available at:

https://leginfo.legislature.ca.gov/faces/billTextClient.xhtml?bill_id=201520160AB1236

California Governor's Office of Business & Economic Development (GOBiz). "Electric Vehicle Charging Station Permitting Guidebook". July 2019. Available at: http://businessportal.ca.gov/wp-content/uploads/2019/07/GoBIZ-EVCharging-Guidebook.pdf

California OEHHA. *CalEnviroScreen 3.0 (updated June 2018)*. Last accessed July 16, 2019. Available at: https://oehha.ca.gov/calenviroscreen/report/calenviroscreen-30

CARB. *California Climate Investments: Priority Population Investments*. Last access July 16, 2019. Available at:

https://ww3.arb.ca.gov/cc/capandtrade/auctionproceeds/communityinvestments.htm/

City of Torrance. *One Mile, One Charger: City of Torrance Publicly Accessible EV Charging Infrastructure.* Last accessed July 16, 2019. Available at: https://www.torranceca.gov/our-city/community-development/planning/ev-project

Division of the State Architect, Department of General Services. Summary of 2016 California Building Code Changes for Electric Vehicle Charging Station Accessibility. Retrieved from: https://www.documents.dgs.ca.gov/dsa/access/2016CaliforniaCodes-electric vehicle charging stations_FactSheet_accessible.pdf

Integrated Environmental Health Impact Assessment System. *Effects of spatial resolution: worked example.* Integrated Assessment Toolbox Consortium. Last accessed July 16, 2019. Available at: http://www.integrated-

assessment.eu/eu/guidebook/effects_spatial_resolution_worked_example.html

Ken Kurani and Scott Hardman. "Automakers and Policymakers May Be on a Path to Electric Vehicles; Consumers Aren't." UC Davis Institute of Transportation Studies. February 2018. Accessed July 2, 2019. Available at: https://its.ucdavis.edu/blog-post/automakers-policymakers-on-path-to-electric-vehicles-consumers-are-not/

Mixteco/Indígena Community Organizing Project (MICOP). *Mixtecs in Ventura County*. Available at: http://mixteco.org/mixtecs/

Santa Barbara County Air Pollution Control District. 2017. Tri-Counties Hydrogen Readiness Plan. California Energy Commission. Publication Number: CEC-XXXXXXX-XXX

Santa Barbara County Department of Behavioral Wellness *2018 Cultural Competence Plan*. Available at: http://www.countyofsb.org/behavioral-wellness/Asset.c/5003

SBCAG, SLOCOG, VCTC, and Fehr & Peers. *Central Coast Origin-Destination Survey*. July 8, 2016. Last accessed July 16, 2019. Available at:

http://www.sbcag.org/uploads/2/4/5/4/24540302/central_coast_o-d_survey_final_report_7-8-2016.pdf

The Permitting Electric Vehicle Charging Station Scorecard and California EV Charging Station Permit Streamlining Map are available at: http://www.business.ca.gov/zevreadiness

Tools for Grassroots Activists. Patagonia. Edited by Nora Gallageher and Lisa Myers. 2016.

United State Census Bureau's QuickFacts for Oxnard city, California. Available at: https://www.census.gov/quickfacts/oxnardcitycalifornia

United State Census Bureau's QuickFacts for Santa Maria city, California. Available at: https://www.census.gov/quickfacts/santamariacitycalifornia

United States Census Bureau's QuickFacts for San Luis Obispo County. Available at: https://www.census.gov/quickfacts/sanluisobispocountycalifornia

United States Census Bureau's QuickFacts for Santa Barbara County. Available at: https://www.census.gov/quickfacts/santabarbaracountycalifornia

Ventura County Electric Vehicle Blueprint available at: https://www.vcenergy.org/electric-vehicle-blueprint/

APPENDIX A-1: Project Tasks & Products with Supporting Contractors

Project Tasks & Products with Supporting Contractors									
Task (Chapter) & Supporting Contractor(s)	Subtasks	Products							
Task 2: CEC	 Establish a regional ZEV ombudsman- a staff position tasked to serve as a regional resource and liaison for EVSE siting and build out and ZEV adoption. Create and maintain a ZEV Website on the Plug-In Central Coast website. Survey EVSE permitting requirements established in at least 10 municipalities within the three counties under the Tri-Counties region and consolidate information and resources on the Plug-In Central Coast website. Assist cities in compliance with Assembly Bill 1236 which mandates local ordinances for streamlined permitting. Survey and catalog available incentives in the Central Coast region, including new Investor-Owned Utility (IOU) EVSE programs. Coordinate and conduct 2 to 3 meetings to develop new incentives addressing current gaps and targeting disadvantaged communities. Work with potential site hosts to determine eligibility for active IOU EVSE programs, including Southern California Edison's Charge Ready Program and Pacific Gas & Electric's forthcoming EVSE pilot program. Survey and catalog local ZEV infrastructure service providers. Provide resources and guidance for EV charging demand surveys at workplace and Multi-Dwelling Unit (MDUs). Update regional ZEV resources as needed. 	 Provide an URL for ZEV website displaying EVSE permitting requirements Report cataloging EVSE permitting and compliance with AB 1236 Report cataloging IOU EVSE incentive programs Report cataloging ZEV infrastructure providers Provide surveys on EV charging demand at workplaces and MDUs 							
Task 3: Fehr & Peers, CEC, SBCAPCD & VCAPCD	 Develop a geographic zone system for the mapping of "origin-destination" points as determined by observed mobile phone and GPS-enabled devices. Designate low-income communities and disadvantaged communities as independent zones for targeted analysis. Define additional zones based on population densities, EVSE sites, and MDU densities, residential/non-residential zones, and major travel corridors. Coordinate with StreetLight Data to tag origin- destination points and obtain tabular data for the 150 	 ✓ Report on Task 3 Results and technical memorandum ✓ Publicly accessible online map of recommended EVSE locations 							

		<u> </u>	
	 designated zones. Analyze strategic siting opportunities based on demographic factors, equity considerations, and regional travel patterns. Use results from the analysis to prioritize and recommend at least 25 strategic siting opportunities for a mix of workplace destinations, MDUs, and publicly accessible locations. Develop charts and figures to present results from Task 3, and a technical memorandum describing the analysis and methodology. Publicly accessible online map visualizing recommended EVSE locations from the analysis. 		
Task 4: EV Alliance, SBCAPCD & VCAPCD	 Use survey data to identify leading regional fleet operators with the highest potential for electrification of trucks, buses, and light-duty vehicles. Provide high level PEV educational presentations to at least 15+ major fleet managers. Develop fleet transition plans for at least 5 major fleets to identify the economic, operational, environmental, and customer benefits of electrification. Identify sites for Level 2 and fast chargers in optimum locations to match fleet duty cycles of major fleets adopting PEVs in 2017-2019. Provide information to fleet managers on available regional, state, and federal, and private financing for EV fleet vehicles and infrastructure 	✓ ✓ ✓	PEV presentation for fleet managers Completed fleet transition plans Level 2 and fast charger site lists, including point- of-contact, entity name, mailing address, phone number, and email address Copy of fleet sheet with information on financing options and infrastructure
Task 5: ABM Inc., CEC, SBCAPCD & VCAPCD	 Facilitate and coordinate charging infrastructure site assessments at locations consistent with those identified in Task 3 (Strategic EVSE Siting Analysis). Complete at least 15 EVSE site assessments, including at least: 5 site assessments for each of the three counties in the region; 3 site assessments conducted within or near disadvantaged communities; and 3 site assessments for low-income communities. Coordinate with the ZEV Ombudsman to share information about EVSE service providers, incentives, and permitting requirements. Ensure consistency with best practices and high-level siting recommendations in the region's EV Readiness Plan. Provide potential site hosts with permit ready documents for EVSE installations. 	√ √	List of completed EVSE site assessment locations, to include, but not be limited to: workplaces, MDUs, and publicly-accessible site host point-of-contact, entity name, mailing address, phone number, and email address Map of potential EVSE sites based on completed site assessments
Task 6: CEC, C5, SBCAPCD & VCAPCD	 Produce at least 6 green car shows (2 per county) and 5 ZEV test-drive events (1 per county and at least 2 in disadvantaged communities). Host a minimum of 9 community workshops (a minimum of 3 for each county) to educate potential/prospective ZEV adopters. Conduct outreach to at least 20 businesses, property managers, and/or stakeholders in each of the three counties to support ZEV charging or Hydrogen refueling station installations at the highest priority locations. Contact at least five sites located within disadvantaged communities as potential host sites for 	✓ ✓	Monthly ZEV Awareness Activity report documenting all outreach activities conducted during the activity duration Tri-fold brochures and one-page information sheets promoting ZEV adoption

Task 7: Ivor John & Associates	 charging infrastructure. Conduct a minimum of 3 ZEV charging or hydrogen refueling station installation workshops located within disadvantaged communities. Develop multilingual outreach materials (brochure and one sheeter) for potential ZEV station host sites. Make brochures available to the public online. Develop multilingual outreach materials (brochure and one sheeter) for potential ZEV drivers. Make brochures available to the public online. Develop multilingual outreach materials (brochure and one sheeter) for potential ZEV drivers. Make brochures available to the public online. Track total attendees, community contacts, test drives, and other outreach activities for reporting. Review and consolidate emergency response manuals from original equipment manufacturers to better inform training to first responders. Conduct a minimum of 2 one-day, safety trainings for first responders. Trainings will ideally be hosted local Fire Departments and delivered at their training headquarters for each county. 	 ✓ Course materials for training involving Hydrogen FCEVs or accidents involving electric vehicles with high voltages ✓ Training course reports following each safety training that document number of attendees, feedback, and opportunities of improvement
Task 8: Ivor John & Associates	 Contact station owners and operators, to discuss their willingness to site a hydrogen dispenser at their stations. Develop contact list for station owners that express willingness and interest in siting hydrogen infrastructure at their station location(s). Engage with an inclusive list of installation providers to determine their degree of interest in providing installation services in the Tri-Counties region. Encourage installers to engage with station owners to establish preliminary agreements for hydrogen installation. Maintain contact with station owners to monitor progress with these discussions to determine where commitments and agreements are reached. Communicate with FCEV OEMs and local dealerships to monitor timelines and pathways for making FCEVs available in the region. Coordinate with the ZEV Ombudsman to deliver information on EVSE service providers, incentives, and permitting requirements. 	 A list of station owners interested in adding a hydrogen dispenser A list of infrastructure installers expressing interest in working within the Tri-Counties A list of stations where preliminary agreements are reached by owners and installers for moving forward with hydrogen infrastructure projects if funds are made available

Source: SLOCAPCD

APPENDIX B-1: IOU EVSE Programs

The California Public Utilities Commission provides a summary of state utility programs to support ZEV deployment on their website. The following information covers the utility incentives, rates, charging infrastructure programs, and vehicle-grid integration pilots that are being administered by SCE and PG&E as of January 2019. Additional information on the CPUC's regulatory history with transportation energy and ZEVs is also included.

For the most up-to-date information about all state utility ZEV programs and policies, go to <u>https://www.cpuc.ca.gov/zev/</u>.

Rebates and Incentives

Low-Carbon Fuel Standard Rebates

The electric utilities provide rebates to their customers that drive plug-in hybrid electric vehicles (PHEVs).

- PG&E <u>Clean Fuel Rebate</u>
- SCE <u>Clean Fuel Rewards</u>

Funds for these rebates come from the utilities' sales of credits received through California's Low Carbon Fuel Standard (LCFS). Find out more about LCFS <u>here</u>.

Rates

Plug-in Electric Vehicle Rates

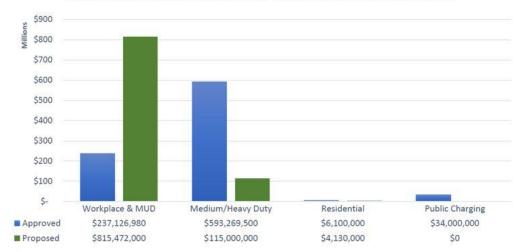
<u>PG&E</u> and <u>SCE</u> each offer electric vehicle "time-of-use" energy rates for residential customers. Time-of-use rates encourage customers to charge during "off-peak" hours. This helps minimize the impact of the energy demand from electric vehicles on the electric grid. Customers may elect to measure both their home and electric vehicle energy use on one meter or measure them separately.

The CPUC hosted a <u>ZEV Rate Design Forum</u> on June 7-8, 2018 to review and evaluate electric rate designs that could support the state's ZEV goals. Documents and recordings are available <u>here</u>.

Plug-in Electric Vehicle Submetering Pilot

Residential and commercial plug-in electric vehicle customers of PG&E, SCE, and SDG&E, including Net Energy Metering customers, are also eligible to participate in the <u>Plug-In Electric</u> <u>Vehicle Submetering</u> pilot, which uses energy meters specifically for PHEV charging to help drivers save on fuel costs and avoid paying to install a new utility meter just for their PHEV. Phase 2 ran from January 2017 through April 2018.

Charging Infrastructure



Approved and Proposed IOU TE Investments as of April 2019

Infrastructure Pilot Programs

PG&E, SCE, and SDG&E are currently implementing pilot programs to install infrastructure to support electric vehicle charging at MUDs, workplaces, and public interest destinations. Each utility convenes a program advisory council comprised of representatives from state agencies, ratepayer advocates, environmental justice groups, technology providers, automakers, and others to provide feedback and guidance on pilot design and implementation. The three utility pilots will install the infrastructure to support up to 12,500 charging stations with total budgets up to \$197 million. This table summarizes key pilot information.

Proposed IOU Infrastructure programs

The CPUC is currently considering several charging infrastructure programs proposed by the state's investor-owned utilities as required under Senate Bill 350 as described <u>here</u>.

CPUC/NRG Settlement

In 2012, the Federal Energy Regulatory Commission (FERC) <u>approved an agreement</u> between NRG Energy and the CPUC to settle outstanding legal issues regarding the 2000 California energy crisis. The settlement requires NRG to invest \$102.5 million in electric vehicle charging infrastructure across the state at no cost to site hosts. NRG is obligated to install public fast-charging stations, make electrical upgrades to support electric vehicle charging at existing building facilities ("make-ready infrastructure"), fund technological research and development programs related to electric vehicle charging strategies, and support electric vehicle access programs for under-served communities.

NRG is required to submit quarterly reports on its progress in fulfilling provisions of the settlement agreement and provide a list of its public <u>charging stations</u> and <u>make-ready</u> <u>installations</u>. EVgo, which was a subsidiary of NRG, is currently implementing the settlement requirements on behalf of NRG. The sixth year of the settlement's implementation began on December 6, 2017.

The settlement calls for NRG to finance two third-party audits of its compliance with the settlement agreement. The first tracks NRG's progress midway through settlement implementation and provides a third-party opinion on NRG's compliance with the settlement conditions and provisions as of the settlement's midpoint. The mid-term review audit is available <u>here</u>.

More details on the settlement, including NRG's quarterly and annual reports, are available <u>here</u>.

Infrastructure Pilot Programs at Schools and State Parks and Beaches

<u>AB 1082</u> and <u>AB 1083</u> (Burke, 2017) authorize the investor-owned utilities to propose pilot programs to install electric vehicle charging infrastructure at school facilities and/or state parks and beaches, respectively. The Assigned Commissioner, Carla Peterman, issued a <u>guidance ruling</u> to the IOUs in January 2018 regarding what should be included in their applications if they choose to propose pilots under AB 1082 and AB 1083.

In July 2018, four utilities, PG&E, SCE, SDG&E and Liberty Utilities, filed applications under AB 1082 and 1083 requesting a combined \$56.4 million for pilot programs at school facilities and state parks and beaches:

CPUC staff hosted a public workshop on December 6, 2018 for PG&E, SCE, SDG&E, and Liberty Utilities to provide an overview of their AB 1082 & AB 1083 applications.

<u>Agenda</u> <u>CPUC Energy Division Discussion Document</u> <u>Presentation</u>

PG&E

(A.18-07-020) Application and Testimony

PG&E expects to spend \$5.76 million over 5 years to install 88-132 L2 EV charging ports across 22 school campuses in Alameda, Fresno, and San Joaquin counties for use by school employees, school fleets, and visitors. At least thirty-five percent of the participating schools will be located in disadvantaged communities, and no more than ten percent of the program participants will be higher education facilities The utility will also partner with the selected schools to organize a marketing, education, and outreach campaign that seeks to increase EV adoption, improve charging awareness and educate current and future drivers of the benefits to EV ownership.

PG&E also proposes to spend \$5.54 million over 5 years to install at least 40 level 2 (L2) ports and 3 direct current fast chargers (DCFC) EV chargers across 15 state parks and beaches for use by visitors, employees, and parks fleets. The utility will also partner with the selected parks to organize a marketing, education, and outreach campaign that seeks to improve EV ownership and charging awareness and educate potential EV owners of the ability of EVs to reach isolated parks with the hope of reducing "range-anxiety."

SCE

(A.18-07-022) Application and Testimony

SCE expects to spend \$9.89 million over 2 years to install and support up to 250 charging ports at 40 K-12 schools in its service territory. The schools pilot also proposes to perform a comprehensive marketing, education, and outreach campaign through on-campus events and presentations to explain the benefits of EV ownership the next generation of drivers.

SCE also proposes to spend \$9.88 million over 2 years to install make-ready infrastructure at 27 state parks and beaches to support up to 120 level 2 (L2) charging ports and 10 direct current fast chargers (DCFC). SCE is also proposing to support15 mobile EV charging ports. The parks pilot also proposes to perform a comprehensive marketing, education, and outreach campaign through multi-media outlets and in park presentations to explain the benefits of EV ownership to drivers who enjoy outdoor activities, state park users, advocates, and employees.

PG&E Empower EV Charge Network

(<u>A.18-07-021</u>)

PG&E is requesting \$4.1 million to provide incentives for up to 2,000 level 2 EV charging stations for low-to-moderate income residents. PG&E is also proposing to provide up to 800 low-income residents with no-cost home electrical upgrades if needed to support EV charging. In addition, PG&E proposes to work with community-based organizations to provide outreach and education about the program and plans to contract with an "implementer" to verify customers' program eligibility, provide no-cost chargers, and coordinate installation services. The proposed program timeline is 6 months for startup, one year for outreach and implementation, and three months for evaluation.

Vehicle-Grid Integration

The CPUC, in collaboration with other state agencies, is developing policies that support vehicle-grid integration (VGI). VGI helps align electric vehicle charging with the needs of the electric grid. To do this, electric vehicles must have capabilities to manage charging or support two-way interaction between vehicles and the grid. Additional information and documentation can be found on the VGI working group website.

Pilot Programs

EPIC Program

The <u>Electric Program Investment Charge (EPIC)</u> supports the development of noncommercialized new and emerging clean energy technologies in California and provides assistance to commercially viable projects. The <u>California Energy Commission</u> administers 80 percent of the funds collected, and the three IOUs administer the remaining 20 percent. Several EPIC projects are related to vehicle-grid integration.

Demand Response Pilots

PG&E and SCE implemented "demand response" pilots for electric vehicles developed in accordance with <u>D.12-04-045</u>. Demand response (or DR) is when customers change their

electricity usage (typically reducing use or shifting use to other times in the day) at certain times in response to economic incentives, price signals, or other conditions.

- <u>PG&E BMW iChargeForward Pilot</u>
- <u>SCE Workplace Charging Pilot</u>
- <u>SCE Smart Charging Pilot</u>

Department of Defense Vehicle-to-Grid Pilot

<u>SCE partnered with Los Angeles Air Force Base</u> from late 2015 to September 2017 to conduct a vehicle to grid (V2G) pilot program that allowed its electric vehicle fleet to send power back to the electric grid. The vehicle batteries acted as storage, charging when power was cheapest – typically midday when renewable energy generation peaks – and discharge energy back to the grid when there were supply constraints. The fleet of 34 electric and hybrid vehicles served as a storage resource participating in the California power market. Throughout the pilot, which was funded by the <u>California Energy Commission</u> and the U.S. Department of Defense, SCE provided L.A. Air Force Base a <u>specific vehicle-to-grid (V2G) rate</u>.

The final pilot report can be found <u>here</u>.

Low Carbon Transportation Choices Research

The Air Resources Board's <u>low carbon transportation choices research</u> program seeks to improve understanding of what drives vehicle choices, identify real-world emissions benefits of new and used electric vehicles and help increase adoption of zero and low-emissions vehicles across all income levels. Results of ARB's research through this program helps inform many of its clean vehicle incentive programs.

Regulatory History

The CPUC works jointly with other state agencies to meet California's goal of reducing greenhouse gas emissions (GHG) and criteria air pollutants from the transportation sector.

The CPUC began implementing policies aimed at reducing emissions from transportation energy in 1990 but its work escalated in 2006 after the passage of <u>Assembly Bill (AB) 32</u>, the Global Warming Solutions Act, which aims to reduce greenhouse gas emissions to 1990 levels by 2020.

In 2009, pursuant to the Scoping Plan and Senate Bill 626, the CPUC began an Alternative Fuel Vehicles rulemaking (<u>R.09-08-009</u>) to support the widespread deployment and use of plug-in hybrid and electric vehicles.

Prior to the existing time-of-use rates, SDG&E conducted a <u>PHEV TOU Pricing and Technology</u> <u>Study</u>. Customers were eligible for Experimental PHEV Rates (<u>Rev.1</u>) (<u>Rev.2</u>), approved in <u>Resolution E-4334</u>. SDG&E published a <u>final evaluation of the pilot</u>, which ended in 2013.

PG&E and SCE conducted pilot projects offering time-of-use pricing to public transit systems, in an effort to develop rates that meet the charging and utilization demands of bus and other public transit fleets. These pilots were limited to three years and available only to governmentowned or operated fleets, as the CPUC works to develop policies that address electric vehicle fleet charging needs and behaviors statewide.

- PG&E offered the San Joaquin Regional Transit District its <u>small general service TOU</u> <u>energy rate</u> to meet the transit district's new electric bus charging load from September 2013 to 2016, as approved in <u>Resolution E-4628</u>.
- SCE offered a small general service TOU rate from December 2012 to December 2015 to
 governments that included electric vehicles in their fleets, as approved in <u>Resolution E-4514</u>.

In 2013, CPUC continued to develop rules with a specific focus on ZEVs. It decided (<u>D.13-06-14</u>) that the utilities should continue conducting research about the grid impacts of the load associated with electric vehicle charging and costs associated with any new transmission infrastructure needed to service increased electric vehicle load. The joint IOU load research reports can be found here:

- <u>2012-2013 Load Research Report</u>
- <u>2013-2014 Load Research Report</u>
- <u>2014-2015 Load Research Report</u>
- 2015-2016 Load Research Report
- 2016-2017 Load Research Report
- <u>2017-2018 Load Research Report</u>

In December 2014, <u>the CPUC decided</u> that investor-owned utilities could own transportation electrification infrastructure but programs must be considered on a case-by-case basis. This facilitated the development of PG&E, SCE and SDG&E's <u>infrastructure</u> pilot programs.

In recent years, CPUC has hosted several workshops to help inform its policy making including these listed below:

- The Basics of Cost Effectiveness Analysis: <u>Presentations</u> (3/6/15)
- PHEV Infrastructure Site Selection (6/10/15) and Metrics & Data (6/16/15) <u>Presentations</u>

The current, ongoing proceeding, <u>R.13-11-007</u>, seeks to develop policies that ensure that ZEVs efficiently integrate with the utility grid and have access to fair rates that encourage electrification. CPUC is also working with other state agencies to implement policies and programs that encourage the deployment of charging equipment and infrastructure. A key part of the agencies' work is focused on implementing requirements set forth by California Senate Bill (SB) 350 to support widespread transportation electrification. More information about the investor-owned utilities' most recent proposals to accelerate the deployment of transportation electrification website.

Resources

Research Database

In 2018, CPUC collected pilot project information through a new <u>survey</u> on zero-emission vehicle infrastructure and vehicle-grid integration research. The <u>survey results</u> are publicly available and can be downloaded as an Excel file.

CPUC seeks to maintain up-to-date, consolidated information on pilot programs to help researchers, regulators, and other utility and transportation stakeholders stay informed about this quickly changing field. The database includes for each project: contact information, location, participants, objectives, rates, funding, timeline, vehicles, equipment, standards, and software.

In 2016, the CPUC organized information about a variety of past and ongoing pilot projects and compiled the results into an easily-searchable <u>presentation</u>. This resource includes links to dozens of reports with findings from research on transportation electrification, and was last updated in August 2018.

Disadvantaged Communities

- CPUC work to support disadvantaged communities
- California Air Resources Board <u>Low-Income Barriers Study Part B</u>: Overcoming Barriers to Clean Transportation Access for Low-Income Residents
- California Energy Commission <u>SB 350 Barriers Study Proceeding</u>
- CEC SB 350 Low-Income Barriers Study Part A

California Air Resources Board

- <u>Scoping Plan</u> Describes California's policies designed to meet the state's GHG reduction goals.
- <u>Mobile Source Strategy</u> A 15-year plan aimed at meeting air quality standards, reducing GHG emissions, reducing petroleum consumption and lowering health risks from transportation emissions throughout California.
- <u>State Implementation Plan for Federal Ozone and PM2.5 Standards</u> California's plan to meet federal ambient air quality standards for smog-forming pollutants.
- The Center for Sustainable Energy administers the <u>California Clean Vehicle Rebate</u> <u>Project</u> for the ARB and shares <u>rebate statistics</u>.

California Energy Commission

- <u>Integrated Energy Policy Report</u> A biannual report providing data regarding trends and issues across the energy sector in California. Provides a forecast of California's energy demand.
- <u>Alternative and Renewable Fuel and Vehicle Technology Program (ARFVTP)</u> The CEC is authorized to spend approximately \$100 million annually to help develop and deploy alternative fueled transportation technologies through this program.
- Zero-Emission Vehicles and Infrastructure Progress reports

California Sustainable Freight Action Plan

An interagency <u>action plan</u> aimed at improving freight efficiency, transitioning to cleaner fuels, and increasing the competitiveness of California's freight system

APPENDIX B-2: ZEV Resources

The following resources were not published to Electric Drive 805 due to funding limitations, partner concerns, and/or related challenges outlined in Chapter 2. The resources are provided in this appendix for reporting purposes.

If you have any issues accessing the list via Dropbox or survey templates, contact:

Cameron Gray

Transportation & Climate Program Manager

Community Environmental Council

cgray@cecmail.org

(805) 963-0583 x111

EVSE Service Providers List

The list of EVSE service providers compiled for the ZEVRI project can downloaded at:

https://www.dropbox.com/s/u1olrh5yk9muau5/Appendix_2.2-ZEVRI-EVSE_providers.xlsx?dl=0

To download the list, follow the link and click on the "..." in the upper right-hand corner of the webpage (next to the blue "Share" button).

EV Charging Demand Surveys

To access the online Google Form templates for workplace and MUD charging demand surveys, follow the links below:

Workplace EV Charging Demand Survey template

MUD EV Charging Demand Survey template

APPENDIX B-3: AB 1236 Implementation

In 2015, AB 1236 established requirements for cities and counties to streamline their permitting systems for residential and nonresidential electric vehicle charging stations. Under this legislation, all California cities and counties were required to adopt an ordinance that establishes an expedited, streamlined permitting process for EVSE no later than September 30, 2017.29 The legislative intent of AB 1236 is to: 1) encourage the installation of electric vehicle (EV) charging stations by removing obstacles and minimizing costs for charging station permitting, so long as the action does not supersede the building official's authority to identify and address higher priority life-safety situations; and 2) streamline local government permitting processes for EV charging stations.

Key requirements in AB 1236 state that cities and counties shall:

- Adopt an ordinance that creates an expedited, streamlined permitting process for residential (including multi-family residential) and non-residential electric vehicle charging stations, in consultation with the local fire department or district and the utility director (if the city, county, or city and county operates a utility).
- Adopt a checklist of all requirements with which residential and non-residential electric vehicle charging stations shall comply to be eligible for expedited review.
- Publish the checklist and required permitting documentation on a publicly accessible internet web site.
- Provide a means of electronic submittal (via email, fax, or the internet) of a permit application and associated documentation.
- Authorize the electronic signature on all forms, applications, and other documentation in lieu of a wet signature by an applicant. If unable to authorize the acceptance of an electronic signature on all forms, applications, and other documents in lieu of a wet signature by an applicant, the city, county, or city and county shall state, in the ordinance required under AB 1236, the reasons for its inability to accept electronic signatures and acceptance of an electronic signature shall not be required.

CEC conducted outreach from December 2017 to October 2018 to assess local government implementation of AB 1236 in the counties of San Luis Obispo, Santa Barbara, and Ventura. This work was scoped under California Energy Commission grant

²⁹ Assembly Bill 1236 Local Ordinances: electric vehicle charging stations (Chiu, 2015). Signed into law October 8, 2015. Full text available at:

 $https://leginfo.legislature.ca.gov/faces/billTextClient.xhtml?bill_id=201520160AB1236$

agreement ARV-16-015 for regional Zero Emission Vehicle Readiness Implementation. Building and permitting officials for a total of 12 local governments were contacted and asked about the status of AB 1246 implementation.

AB 1236 Local Government Implementation Matrix

Information about the status of AB 1236 implementation for the 12 local governments that CEC contacted for the ZEVRI project is available in a matrix, which can be downloaded at the following link. The information in the matrix linked below was last updated in January 2019 and therefore does not necessarily represent the current status of implementation for local government that are listed.

AB 1236 Implementation Matrix

To download the list, follow the link and click on the "..." in the upper right-hand corner of the webpage (next to the blue "Share" button).

If you have any issues accessing AB 1236 implementation matrix or downloading the document linked within the matrix, please contact:

Cameron Gray

Transportation & Climate Program Manager

Community Environmental Council

<u>cgray@cecmail.org</u>

(805) 963-0583 x111

AB 1236 Implementation Resources

California Building Officials <u>Resources</u> and AB 1236 Tool Kits (2016)

- Small Jurisdictions (population of less than 200,000) <u>Toolkit PDF</u>
- Large Jurisdictions (population of 200,000 or more) <u>Toolkit PDF</u>

Center for Sustainable Energy – Electric Vehicle Charging Station Toolkit Guidance (2017)

- Checklist for Residential and Nonresidential Permit Application
- Plan Review and Permit Correction Sheet for Residential and Nonresidential
- Installation Checklist for Residential and Nonresidential

Model Permitting Checklists

- California Governor's OPR "Zero Emission Vehicles in California: Community Readiness Guidebook" <u>Plug-In Electric Vehicle Infrastructure Permitting Checklist</u> (2013)
- <u>City of Oxnard Model Permitting Forms & Checklists</u>

Central Coast EV Readiness Plan Guidance (2014)

• <u>Appendices A - C</u>

Note: If you have any issues accessing the documents linked above, backup versions have been uploaded to this <u>Google Drive folder</u>.

Full AB 1236 Legislative Text

Available at:

https://leginfo.legislature.ca.gov/faces/billTextClient.xhtml?bill_id=201520160AB1236

AB 1236 Legislative Intent

- Encourage the installation of electric vehicle (EV) charging stations by removing obstacles and minimizing costs for charging station permitting, so long as the action does not supersede the building official's authority to identify and address higher priority life-safety situations.
- Streamline local government permitting processes for EV charging stations

AB 1236 Key Requirements

A city, county, or city and county:

- <u>Shall</u> administratively approve an application to install EV charging stations through the issuance of a building permit or similar nondiscretionary permit.
- <u>Shall</u> limit the review of applications for EV charging station installs to the building official's determination of whether the station does or does not meet all health and safety requirements of local, state, and federal law.
- <u>Shall</u> limit the requirements of local law to those standards and regulations necessary to ensure that the EV charging station will <u>not</u> have a specific, adverse impact upon the public health or safety. Local government staff can require the applicant to apply for a use permit if their building official makes a finding, based on substantial evidence, that the electric vehicle charging station could have a specific, adverse impact upon the public health or safety,
- May deny an application for a use permit to install an electric vehicle charging station <u>only if</u> it makes written findings based upon substantial evidence in the record that the proposed installation would have a specific, adverse impact upon the public health or safety, *and* there is <u>no</u> feasible method to satisfactorily mitigate or avoid the specific, adverse impact.
- <u>Shall</u> include the basis for the rejection of potential feasible alternatives of preventing the adverse impact in written, evidence-based findings.
- <u>Shall</u> adopt an ordinance that creates an expedited, streamlined permitting process for electric vehicle charging stations, in consultation with the local fire department or district and the utility director (if the city, county, or city and county operates a utility). The ordinance <u>shall</u> be adopted **on or before September 30, 2016**, for every city, county, or city and county with a population of 200,000 or more residents, and, **on or before September 30, 2017**, for every city, county, or city and county with a population of less than 200,000 residents. The ordinance <u>shall</u> be consistent with the goals and intent of AB 1236.
- <u>Shall</u> adopt a checklist of all requirements with which electric vehicle charging stations shall comply to be eligible for expedited review.

- <u>Shall</u> deem an application complete if it satisfies the information requirements in the checklist, as determined by the city, county, or city and county.
- <u>Shall</u> approve the application and issue all required permits or authorizations upon confirmation by the city, county, or city and county of the application and supporting documents being complete and meeting the requirements of the checklist, and consistent with the ordinance, a city, county, or city and county.
- <u>Shall</u> issue a written correction notice detailing all deficiencies in the application and any additional information required to be eligible for expedited permit issuance upon receipt of an incomplete application.
- An application submitted to a city, county, or city and county that owns and operates an electric utility <u>shall</u> demonstrate compliance with the utility's interconnection policies prior to approval.
- <u>Shall</u> publish the checklist and required permitting documentation on a publicly accessible Internet Web site if the city, county, or city and county has an Internet Web site
- <u>Shall</u> allow for electronic submittal of a permit application and associated documentation
- <u>Shall</u> authorize the electronic signature on all forms, applications, and other documentation in lieu of a wet signature by an applicant. If <u>unable</u> to authorize the acceptance of an electronic signature on all forms, applications, and other documents in lieu of a wet signature by an applicant, the city, county, or city and county <u>shall</u> state, in the ordinance required under AB 1236, the reasons for its inability to accept electronic signatures and acceptance of an electronic signature shall not be required.
- <u>Shall not</u> condition approval for any electric vehicle charging station permit on the approval of an electric vehicle charging station by an association, as that term is defined in Section 4080 of the Civil Code.

AB 1236 Definitions

"A feasible method to satisfactorily mitigate or avoid the specific, adverse impact" includes, but is not limited to, any cost-effective method, condition, or mitigation imposed by a city, county, or city and county on another similarly situated application in a prior successful application for a permit.

"Electronic submittal" means the utilization of one or more of the following:

- Email.
- The Internet.
- Facsimile.

"Electric vehicle charging station" or "charging station" means <u>any</u> level of EVSE station that is designed and built in compliance with Article 625 of the California Electrical Code, as it reads on the effective date of this section, and delivers electricity from a source outside an electric vehicle into a plug-in electric vehicle.

"Specific, adverse impact" means a significant, quantifiable, direct, and unavoidable impact, based on objective, identified, and written public health or safety standards, policies, or conditions as they existed <u>on the date</u> the application was deemed complete.

Other Relevant Legislation

Existing law, the Electric Vehicle Charging Stations Open Access Act, prohibits the charging of a subscription fee on persons desiring to use an electric vehicle charging station, as defined, and prohibits a requirement for persons to obtain membership in any club, association, or organization as a condition of using the station, except as specified.

APPENDIX C-1: Task 3 Results and Technical Memorandum

See next 40 pages.

Fehr / Peers

MEMORANDUM

Subject:	Task 3: Strategic EVSE Siting Analysis Methodology and Results
From:	Kevin Johnson, Fehr & Peers and Laura Schewel, StreetLight Data
То:	Andy Mutziger, SLOCAPCD
Date:	October 16, 2018

WC17-3425

PROJECT BACKGROUND

In 2012, Plug-in Central Coast (PCC) prepared a Plug-In Electric Vehicle (PEV) Readiness Plan (Plan) for the California Central Coast to guide the development of PEV charging infrastructure for the counties of Ventura, Santa Barbara, and San Luis Obispo ("the Tri-Counties region). PCC established a goal to develop a public charging network that enables all-electric travel throughout the region. The Plan provided infrastructure site maps indicating the location of existing charging stations, as well as recommended locations for additional electric vehicle (EV) charging infrastructure. The site maps for workplace charging recommended electric vehicle supply equipment (EVSE) for the largest employers in the Tri-Counties. Direct current fast chargers (DCFC) were recommended based on the desired geographic distances between each DCFC station and proximity to major highways.

Since 2012, the best practices for EVSE siting have been refined and updated, with increased emphasis on workplace and multi-family dwelling unit (MDU) installations.

PROJECT PURPOSE

The purpose of this project is to conduct an analysis using empirical mobile device data to identify and evaluate key locations for EVSE infrastructure installations. The results of the analysis will be used to prioritize the recommended EVSE sites from the region's PEV Readiness Plan. The analysis will also identify additional key travel origins and destinations that present strategic siting opportunities. Andy Mutziger October 16, 2018 Page 2 of 21



The analysis will allow for a more granular evaluation of siting opportunities in CalEnviroscreen defined Disadvantaged Communities (DACs) and AB1550 low-income communities (LICs). The results of this targeted analysis for these demographics will facilitate the prioritization of EVSE projects that will support a more equitable distribution of EVSE infrastructure and the emission reductions benefits from increased all-electric travel.

The results of the mobile data analysis will also be published in open, publicly-available online maps, which could be updated by project partners and the regional ZEV ombudsman if there are resources to support this work. These maps, along with regularly updated web-based application showing installed EVSEs, will allow regional stakeholders to access good locations for future EVSE installations.

BIG DATA OVERVIEW

The availability of mobile device data provides a new basis for prioritizing EVSE installations at the regional level. Mobile devices such as cell phones and GPS devices in cars, phones, and handheld units, frequently communicate with the mobile network, both during use (i.e. on a call or sending/receiving text or data) and in idle mode. StreetLight Data is a company that specializes in mobile device data. Their services were used in this effort to collect and analyze mobile device data and record the anonymous location (ensuring user privacy) and movement of mobile devices on the project region's roadway network. This information can be assessed both in real-time or over almost any designated time period, based on the network's mobile signaling data.

In general, this anonymous, archival location data from mobile devices can help planners answer important questions about their communities that were previously difficult and expensive to answer. Specifically, mobile device data can be used to gain key insights into the:

- Origins and destinations of travelers in a region or on a specific roadway
- Locations where residents of a region work and shop
- Areas where commuters to a region reside
- Trip lengths from a region or to a destination
- Demographic characteristics for the users of a corridor or at a trip destination

Andy Mutziger October 16, 2018 Page 3 of 21



These insights allow planners and decision-makers to better understand mobility behaviors, enabling more informed and beneficial community projects.

METHODOLOGY

The following section describes the methodology used to develop a basis for identifying and prioritizing the recommended areas for EVSE infrastructure installations and to support a more equitable distribution of EVSE infrastructure within the Tri-Counties area. The intention of the analysis was to perform a high-level analysis of areas within the Tri-County region to feed into more granular siting and planning in other tasks associated with the CEC/APCD Grant.

Step 1: Obtained existing data relevant to (future/needed) EVSE strategic siting opportunities

The following existing data relevant to (future/needed) EVSE strategic siting opportunities was obtained in shapefile format for the Tri-County area.

- Demographic data for LICs identified by CARB under Assembly Bill 1550 and DACs identified by CalEPA under Senate Bill 535
- Areas within one mile of a Pacific Gas & Electric (PG&E) or Southern California Edison (SCE) substation which steps down high voltage to lower voltage distribution, which significantly cuts costs of installing an EV Station. Provided by PG&E and SCE in October 2017.
- Suitable areas identified for DC Fast Charging infrastructure development by PG&E in 2018. The study designated one-mile radius areas that can support DC Fast Charger installation and where there is an expected unmet need for fast charging locations by 2025.
- SCE service areas that have at least 15% available electric capacity provided by SCE in October 2017.
- Number of existing multi-family residential units from the MPO travel models
- Forecasted growth in multi-family residential units by the year 2040 from the MPO travel models
- Number of existing retail and office employees from the MPO travel models
- Forecasted growth in retail and office employees by the year 2040 from the MPO travel models

Andy Mutziger October 16, 2018 Page 4 of 21



• Number of existing fleet operators with six or more trucks – this data was originally incorporated into the analysis but found to be of pool quality so was removed

Step 2: Developed zonal geographic layer

A 288-zone geographic layer was developed for the Tri-Counties area to provide a geographic system for data analysis, scoring, and mapping. The geographic layer was developed based on the traffic analysis zone (TAZ) structure of the travel demand models for the metropolitan planning organizations (MPOs) in San Luis Obispo, Santa Barbara, and Ventura counties. The existing data relevant to future charging opportunities was first overlaid on the TAZ systems and TAZs were aggregated based on their spatial homogeneity with the existing relevant data. This relevant data was then spatially tagged and aggregated where applicable to the final 288-zone geographic layer. The resulting shapefile provided a geo-coded database of relevant data for future EVSE siting in the Tri-Counties. These data could then be sorted, queried, and spatially analyzed. Additional metrics were tagged to the geo-coded database. A weighted scoring system was applied to the metrics and used to rank and prioritize the 288 TAZs for future EVSE infrastructure development.

Step 3: Obtained StreetLight Data & developed travel behavior metrics

StreetLight Data analyzed anonymous, archival location data from mobile devices in the Tri-Counties region and developed a list of available travel behavior metrics that were presented to the project team (a detailed description of StreetLight Data's methodology, data sources, and analysis steps is provided in **Appendix A**). Using local context and expert knowledge of EV charging behavior, the following travel behavior metrics were selected for analysis to best represent characteristics that could drive demand for EVSE in the Tri-Counties.

- Total auto trips passing through each zone
- Total auto trips "parking" in each zone
- Auto trips of 20+ miles, 40+ miles, and 100+ miles that pass into a zone and park
- Work trips, shopping trips, and intermediate trips¹
- Medium-duty truck trips of 40+ miles passing through each zone
- Medium-duty truck trips of 40+ miles that pass into a zone and park

¹ Intermediate trips refer to secondary trips made as part of a longer primary trip (i.e. stopping for coffee or gas on the way to work).

Andy Mutziger October 16, 2018 Page 5 of 21



- Heavy-duty truck trips of 40+ miles passing through each zone
- Heavy-duty truck trips of 40+ miles that pass into a zone and park

The project team and partners assumed that higher travel demand would be associated with a higher demand for EV charging, so a metric for the number of trips through zones was used to capture the geographic area's relative transportation demand. Since drivers recharge while their electric vehicle is parked, a metric was also developed to assess the total number of parking events in each zone. Given this assumption, it was anticiapted that an inequitable number of high scoring zones would be located in Ventura County due to its population and land use density and that additional metrics and alternative ways to look at the results would be required.

The distance of trips is an important consideration for prioritizing EV charging. The project team created a metric for auto trips of 40+ miles that pass into a zone and park to help prioritize charging infrastructure development in areas where a larger number of trips are completed within the 80-to-100-mile driving range of most pure battery electric vehicles (BEVs).

Similarly, a metric for auto trips of 20+ miles that pass into a zone and park was created to identify areas where a high number of trips are at the threshold of the all-electric driving ranges for plugin electric vehicles (PHEVs). Most PHEVs have an all-electric range of 20 to 50 miles. To complete trips that exceed a plug-in hybrid's all-electric range, driver must travel in a "hybrid mode" that powers the vehicle with a mix of electricty and gasoline. Greater air quality and emission reduction benefits from PHEVs can be realized when their drivers have access to charging at rental properties and work.

We also included metrics for trips less than 20 miles to account for drivers that need to complete additional trips between home and work that may not be able to complete the trip home in a BEV unless they have access to workplace or public charging. Imagine an employee who has needs to run errands when they get off or at lunch, or the working parent that needs to take their children to and from school. If these drivers are already commuting more than 30 or miles into the work, they are likely to experience some range anxiety and may even deplete their battery if they can't recharge at their place of employment. To capture this need, the project team considered a metric for trips made during the workday, shopping trips, and additional intermediate travel. Metrics were also included for trips less than 20 miles to account for drivers who make multiple short distance trips (i.e. visitng multiple shopping centers miles apart) that together could exceed the range of PHEVs.

Andy Mutziger October 16, 2018 Page 6 of 21



A group of metrics was also developed to identify zones where regional fleet operators are most likely to need charging to complete their duty cycle. The fleet-focused metrics break out mediumand heavy-duty electric vehicles, and were applied to identify zones where large numbers of fleet vehicles pass through with 40+ miles of travel remaining and where fleet vehicle drivers tend to park after driving more than 40 miles. These metrics assume that most electric fleet vehicles will need to recharge at least every 40 miles, and that charging will be most convenient when fleet vehicle drivers park at the locations they serve.

Data for each travel behavior metric was then tagged to the 288-zone geographic layer developed for the Tri-Counties area that already included existing data relevant to (future/needed) EVSE strategic siting opportunities.

Step 4: Developed weighted scoring criteria

An Excel-based weighted scoring spreadsheet was developed using existing relevant data metrics obtained as part of Step 1 and travel behavior metrics obtained as part of Step 3 for each of the 288 zones developed for the Tri-Counties area (data for each of the metrics is provided for all 288 zones in **Appendix B** along with a map of the 288-zone geographic layer for reference). Weighting factors were developed for the following four use cases because the key parameters for an individual driver's charging demand vary for different driving scenarios:

- Workplace Destinations (Employees) Focus on areas with higher concentrations of existing and proposed office employment. Focus on higher frequency of personal auto through trips of 40 miles or more, personal auto parking events with 40 or more miles left to the final destination, and a high frequency of work trips.
- Multi-unit Developments or High Renter Occupied Areas (Renters) Focus on areas with higher concentration of existing and proposed multi-unit residential units and existing and proposed office employment. Focus on personal auto through trips of 40 miles or more, and personal auto parking events with 20 or more miles left to the final destination.
- Travelers (Tourists or Visitors) Focus on areas with higher concentrations of existing and proposed retail employment. Focus on higher frequency of personal auto through trips that are longer than 20 or more miles, and personal auto parking events with 20 or more miles left to the final destination.
- Fleet Operators Focus on areas with higher concentrations of fleet operators and office and retail development. Focus on higher frequency of heavy- and medium-duty truck through trips that are longer than 40 miles.

Andy Mutziger October 16, 2018 Page 7 of 21



Since these different EV charging users face different charging barriers and exhibit different travel behaviors, distinct assessments were completed for each user group to prioritize charging infrastructure development that can help facilitate increased EV adoption. These distinct user assessements considered different metrics and applied varying weights to create scores that could effectively priortize charging infrastructructure development in different geographic areas based on each user group's unique needs and behaviors.

Indexed Scale for each Metric

One of the goals of the project was to enable easy, intuitive comparison of the anticipated need for EV charging in distinct geographic areas of the Tri-Counties region, with respect to specific goals of enhancing EV charging access for distinct user groups and ensuring equitable access for charging in DACs and LICs. Because different metrics were on different scales (i.e. number of auto trips vs. number of fleet operators), it became imperative to develop a system to allow for their comparison. To mitigate this, the team indexed each metric on a scale of one to five based on the quintile the score fell into. This created a relative and indexed scale for all metrics to which weighting scoring factors could be applied.

For example, the lowest monthly number of personal car trips over 20 miles was 102, and the highest 500,000. Thus, a zone with 102 such trips got a score of 1 (first quintile), a zone with 251,000 got a score of 3 (third quintile), and a zone with 490,000 got a score of 5 (fifth quintile). The indexed scale for each of the metrics is provided for all 288 zones in **Appendix B**.

Andy Mutziger October 16, 2018 Page 8 of 21



Weighted Scoring Factors

To create a simplified score for each zone, the project team developed a weighting scoring factor ranging from zero to five for each behavioral component that would be applied to the indexed scale of one to five for each metric. Project team partners were consulted to develop these weights. Because several different charging behaviors were of interest, several different weights were used. The table below shows those weights for each metric and below is a discussion of considerations for the weighted scoring factors. For example, the total volume of personal trips is considered somewhat important for identifying areas where there is higher demand for charging among employees that drive into work, so this travel behavior has a weight of two for the Commuterfocused analysis. The volume of personal trips has less influence on the likely demand for "Fleet" charging, so this travel behavior has a weight of zero for the Fleet-focused analysis.

			Weighting Factor by Use Case				
Metric	Data Format	Scoring Method	Employee	Renter	Road Tripper	Fleet Operator	
Land Use							
Multi-Unit Residential Units	number of units	percentile	0	5	0	0	
Proposed Multi-Unit Residential Growth	number of units	percentile	0	5	0	0	
Retail Employment	number of employees	percentile	2	2	5	2	
Office Employment	number of employees	percentile	5	5	0	1	
Proposed Office Employment Growth	number of employees	percentile	5	5	0	1	
Other Employment	number of employees	percentile	1	2	3	2	
Location of Fleet Operators	number of fleet operators	percentile	0	0	0	5	
Electrical Infrastructure							
PG&E DC Charging Capacity	0 if no, 1 if yes	binary	2	2	5	5	



			Weighting Factor by Use Case				
Metric	Data Format	Scoring Method	Employee	Renter	Road Tripper	Fleet Operator	
SCE 15% Charging Capacity	0 if no, 1 if yes	binary	2	2	5	5	
Travel Behavior							
Total Personal Auto Trips Passing Through	number of trips	percentile	2	2	0	0	
Personal Auto Trips Passing Through of 20+ miles	number of trips	percentile	3	3	3	0	
Personal Auto Trips Passing Through of 40+ miles	number of trips	percentile	5	5	4	0	
Personal Auto Trips Passing Through of 100+ miles	number of trips	percentile	0	0	5	0	
Total Personal Auto Parking Events	number of parking events	percentile	1	1	0	0	
Personal Auto parking events with 20+ miles left	number of parking events	percentile	4	5	4	0	
Personal Auto parking events with 40+ miles left	number of parking events	percentile	5	5	4	0	
Heavy-Duty Truck Trips Passing Through of 40+ miles	number of trips	percentile	0	0	0	5	
Heavy-Duty Truck Parking Events with 40+ miles left	number of parking events	percentile	0	0	0	3	
Medium-Duty Truck Trips Passing Through of 40+ miles	number of trips	percentile	0	0	0	5	
Medium-Duty Truck Parking Events with 40+ miles left	number of parking events	percentile	0	0	0	3	
Work Trips	number of trips	percentile	5	2	0	1	
Shopping/Recreation Trips	number of trips	percentile	0	3	0	2	
Intermediate Trips	number of trips	percentile	0	4	4	0	

Andy Mutziger October 16, 2018 Page 10 of 21



Land-use Weighting Considerations

The zoning for local government land uses was incorporated into the analysis to prioritize EV infrastructure development at locations for multi-unit apartment locations, workplaces, fleets, and public destinations. The goal was to ensure that geographic areas with different land uses were scored in a way that prioritizes infrastructure development where these different users live, work, and travel. Weights were set so that analysis zones with larger amounts of land area designated for multi-unit residential developments and multi-unit residential growth scored higher for rental charging.

Similarly, geographic areas with more retail, office, and proposed office land uses scored higher for workplace charging and fleet charging. Retail and other employment land use areas were also weighted to score higher for pass-through/road trip charging infrastructure. The project team assumed that fleet operators and drivers completing road trips would want to stop at locations with amenities that are close to the major travel corridor they are using. A weight of 5 was assigned for retail land-uses within 1 mile of a freeway or highway for road trippers, and a lower weight of 2 was assigned to this metric for the fleet operator analysis.

Demographic Weighting Considerations

The analysis to identify high-priority locations for EV charging infrastructure places special emphasis on Disadvantaged Communities (DACs) and the Low-Income Areas (LIAs) that fall outside of DACs. Instead of assigning weights to the zones that were DACs and LIAs, the project team implemented a binary scoring method. This binary method labeled all zones as either DACs or non-DACs and LIAs or non-LIAs. Using the binary scoring method allowed the Fehr & Peers to assess anticipated charging need in only DACs and LIAs. With this binary sorting function in place, Fehr & Peers created an additional layer of analysis the provided stand-alone rankings for the highest priority areas to develop EV charging infrastructure in the region's DACs and LIAs. The benefit of this approach, as opposed to inclusion of LIAs and DACs into the weighted scoring, allowed for the identification of the top scoring LIA and DAC zones and for their comparison to top scoring non-LIA and non-DAC zones to help understand if the chosen metrics and indexing system permitted an equitable analysis of siting opportunities and to ensure siting opportunities were identified in LIA and DAC zones.

Andy Mutziger October 16, 2018 Page 11 of 21



Electrical Infrastructure Weighting Considerations

The analysis assigned weights to two electric infrastructure datasets obtained from PG&E and SCE. PG&E completed an analysis to identify the most suitable locations for DCFC locations in their service territory through an Electric Program Investment Charge (EPIC) demonstration project. According to PG&E, the EPIC project "used state travel data with other important factors related to EV driver convenience and accessibility to identify the top 300 areas in PG&E's territory."

The identified DCFC sites have the highest predicted unmet charging demand for electric vehicles in 2025. Within each area, potential site locations for DCFCs were identified based on criteria from drivers, potential charger hosts, and network developers, as well as current available capacity at the service transformer to install two or more DCFCs without necessitating an upgrade to the distribution service transformer.

The areas PG&E identified as suitable DCFC received a weight of 5 for road trippers and fleet operators, since these users are more likely to require DCFC for their transportation needs. A weight of 2 was assigned to PG&E's identified areas for DCFC since the identified areas for DCFC in PG&E's service territory may also be good locations for installing a large bank of Level 2 chargers (e.g. 10+ charging stations in the same parking lot). The weights assume that employees and renters will need to use DCFC periodically but that DCFC demand will be lower for drivers engaged in day-to-day travel since DCFCs is more expensive than Level 1 or Level 2 charging. Furthermore, regular use of DCFCs reduces the battery life of vehicles, providing additional incentive to use the lower-power charging options.

SCE has not completed a dedicated analysis to identify suitable locations for DCFC installations in their service territory, so the team used electric grid penetration level data from SCE's Distributed Energy Resource Integration Map (DERiM). The penetration level is an indicator of the amount of additional power that a section of electrical line can transmit, which is relevant for electric vehicle charging infrastructure development. Electric vehicle charging – especially at DCFCs – has the potential to significantly increase the demand for power in a given area. As the demand for power increases, the need for additional electricity generation also increases.

The electrical circuits connected to new electrical generation sources need to have enough available capacity to transmit additional power to the areas with higher demand. If the circuits serving an area do not have available capacity for transmitting this additional power, grid operations would be negatively affected and the lifetime of electric infrastructure would be reduced. To prevent these

Andy Mutziger October 16, 2018 Page 12 of 21



negative impacts and stay in compliance with CPUC regulations, circuits that lack additional penetration capacity would need to be updated².

Since it is advisable to consider the capacity of the electrical circuits that would serve DCFC installations or large banks of Level 2 charges, the analysis assigned a weight of 5 to the zones with higher available electrical capacity for DCFC charging infrastructure that would serve road trippers and fleets. A weight of 2 was assigned to areas with higher available penetration capacity for charging infrastructure serving employees and renters. The weights for available penetration capacity in SCE's service territory are based on the same assumptions that informed weights for the suitable areas that PG&E identified for DCFC installations.

Travel Behavior Weighting Considerations

The travel behaviors for employees, renters, road trippers, and fleet operators diverge in several different ways that influence when and where EV charging is needed. For this reason, the project team developed unique weights for travel behavior metrics to help identify locations with the greatest need for charging infrastructure development.

Renters and employees are the two user groups that were assumed to have the most overlap in travel behaviors and EV charging needs since many employees are also renters. The type of trips completed by employees and renters for a given area was assumed to be more important than the total number of trips or parking events in that area. A lower weight of 2 was assigned for zones where a higher number of personal automobile trips were made by renters and employees. The total number of parking events received a low weight of 1 for employees and renters. Higher weights were assigned to a set of metrics that captured different factors indicating the type of trips completed by employees and renters. These factors are the number of trips falling with a given range (measured in miles), land uses for the area where trips began from and/or ended, the time of trips occurred, and the types of vehicles used.

Trips completed from 6:00 a.m. to 10:00 a.m. and 3:00 p.m. to 7:00 p.m. that ended in a zone with office/retail land-uses were assumed to be commuter travel completed by employees. A weight of five was assigned to zones with a higher number of completed commuting trips for the employee

² The 15% penetration level represents the amount of additional power, measured in megawatts (MW), that electrical circuits can transmit while satisfying California Public Utility Commission (CPUC) requirements under Rule 21, Screen M. Screen M requires that the amount of generation for an electrical circuit must not exceed 15% of the circuits total capacity (also referred to as the circuits peak load).

Andy Mutziger October 16, 2018 Page 13 of 21



analysis. Trips outside of the designated commuting times were assumed to be mostly for personal or business purposes. These trips were categorized as intermediate trips or shopping trips based on the designated land use of the parking location, number of miles traveled before parking, and origin point of the trip. Medium- and heavy-duty (MHD) vehicle trips were also isolated and used to identify areas suitable for fleet EV charging.

For the renter analysis, a weight of 2 was assigned to zones with a high number of trips during the commuting period that originated from areas with multi-unit residential land uses. This assumes renters tend to have less access to charging than homeowners and will therefore benefit from greater access to workplace charging. Weights of 3 and 4 were assigned for zones that saw a large number of shopping and intermediate trips that originated from areas with multi-unit residential land uses and occurred outside of regular commuting hours. This assumes that renters who lack access to charging at their residence would benefit from charging infrastructure development at locations where they regularly access services.

The project team assumed that trips of 20 to 40 or more miles would have the greatest need for workplace and rental charging. Since drivers that complete longer commutes are in the best position to reduce transportation emssions, a weight of 5 was assigned to the number of commuting trips of 40+ miles for employees. The higher weight for longer trips also assumes that plug-in electric vehicle drivers would be able to maximize the number of all-electric miles driven during their commute. Zones with a a high number of shorter trips (i.e. no more than 20 miles of their origin point) received a lower weight of 3. This weight assumes that there is value to electrifying shorter trips but that the greatest GHG emission reduction and air quality benefits will be generated if a large number of long-distance trips are completed in electric vehicles. Trips of more than 100+ miles were assumed to be for long-distance travel, and were weighted for the "road tripper" analysis.

Step 5: Developed final scores for each use case

The weighted scoring factors for each use case were applied to the indexed scale of one to five for each metric for each zone to develop a final "score" that represented each zone's potential charging demand for each of the four use cases. The final scores could then be used for identifying and prioritizing locations for EVSE site assessments within the highest scoring zones. Sorting and querying could also be applied based on equity factors such as zones that fall within LIAs and DACs to support a more equitable distribution of EVSE infrastructure for the Tri-Counties area.

Andy Mutziger October 16, 2018 Page 14 of 21



To create the final scores for each zone, the weights were first multiplied by the indexed metric scores, and then added together. For example, if a zone had a relative score of 2 for "Volume of Parking Events for Commute", and that gets a weight of 3 for Renter Charging, it would contribute 6 points to the final Renter Charging Score for that zone.

A table of scores for each use case for each zone was then developed as shown below, providing a flexible tool that allows users to "lookup" the details of the score for any individual zone, as well as to identify top scoring zones for each use case. The final scores for each of the use cases is provided for all 288 zones in **Appendix B**.

ZONE	County	DAC	LIC	PGESub	SCESub	EMP	Renter	Tripper	Fleet	City
100	San Luis Obispo	0	1	0	0	192	157	104	101	EL PASO DE ROBLES (PASO ROBLES)
101	San Luis Obispo	0	1	1	0	192	243	152	131	EL PASO DE ROBLES (PASO ROBLES)
102	San Luis Obispo	0	0	1	0	192	161	110	108	EL PASO DE ROBLES (PASO ROBLES)
103	San Luis Obispo	0	1	1	0	192	77	36	41	EL PASO DE ROBLES (PASO ROBLES)
104	San Luis Obispo	0	0	1	0	192	179	114	101	ATASCADERO
105	San Luis Obispo	0	1	0	0	192	141	77	67	MORRO BAY
106	San Luis Obispo	0	0	0	0	190	158	102	61	SLOUninc-W of 101, N of 46
107	San Luis Obispo	0	1	0	0	190	102	56	56	SLOUninc-W of 101, S of 46
108	San Luis Obispo	0	1	0	0	190	147	93	83	SLOUninc-W of 101, S of 46
109	San Luis Obispo	0	1	0	0	188	156	106	82	SAN LUIS OBISPO
110	San Luis Obispo	0	1	0	0	187	230	146	114	SAN LUIS OBISPO
111	San Luis Obispo	0	1	0	0	186	171	107	98	SLOUninc-E of 101, S of 58
112	San Luis Obispo	0	0	0	0	185	181	93	82	SAN LUIS OBISPO
113	San Luis Obispo	0	1	1	0	184	157	100	70	SLOUninc-W of 101, S of 46
114	San Luis Obispo	0	1	0	0	183	70	41	47	SLOUninc-W of 101, S of Arroyo
115	San Luis Obispo	0	1	0	0	182	104	44	57	SLOUninc-W of 101, S of Arroyo

Additionally, a combined use score was developed for each of the 288 zones to determine the overall top 25 scoring zones in the Tri-County area. This combined use score was developed by adding together the scores for each of the four use cases for each zone. The final combined use scores are provided for all 288 zones in **Appendix B**.

RESULTS

The following section describes the results of the weighted scoring analysis, which assisted in identifying and prioritizing locations for EVSE site assessments within the highest scoring zones, and to support a more equitable distribution of EVSE infrastructure for the Tri-Counties area.

Andy Mutziger October 16, 2018 Page 15 of 21



Highest 25-scoring Zones in the Tri-County Region

Below is a table of zones with the highest 25 combined use scores in the Tri-County Region. As shown below, an inequitable number of high scoring zones (21 out of 25) were located in Ventura County. It was hypothesized that this would occur due to Ventura County's population and land use density, as the magnitude of pass-through and parking trips of particular lengths were an important aspect of the scoring, even with the inclusion of additional metrics. A review of the scoring results confirmed this hypothesis as all of the highest 25-scoring zones fell in the fifth quartile for nearly all travel behavior metrics. However, the review also indicated all of the highest 25-scoring zones fell in the fourth or fifth quartile for existing office or multi-unit development as well as projected office or multi-unit development growth from the travel demand models, important metrics given the increased emphasis on workplace and MDU installations.

Zone #	County	City	DAC?	LIC?	Employee Score	Renter Score	Road Tripper Score	Fleet Score	Combined Use Score
239	Ventura	Ventura	No	Yes	192	262	165	155	774
213	Ventura	Camarillo	No	Yes	192	272	165	135	764
209	Ventura	Thousand Oaks	No	No	192	252	165	150	759
237	Ventura	Ventura	No	No	190	265	160	138	753
240	Ventura	Ventura Unincorporated	No	Yes	187	267	165	134	753
201	Ventura	Thousand Oaks	No	No	192	262	165	132	751
205	Ventura	Thousand Oaks	No	Yes	192	262	165	132	751
254	Ventura	Ventura	Yes	Yes	177	260	165	147	749
189	Ventura	Simi Valley	No	No	190	270	150	130	740
194	Ventura	Ventura Unincorporated	No	No	185	265	150	134	734
158	Santa Barbara	Santa Barbara	No	Yes	192	247	165	129	733
236	Ventura	Oxnard	No	Yes	182	262	165	123	732
215	Ventura	Camarillo	No	No	182	258	161	127	728
408	Ventura	Oxnard	Yes	Yes	186	256	150	136	728
242	Ventura	Ventura	No	No	184	258	157	127	726
274	Ventura	Camarillo	No	No	188	253	155	128	724
278	Ventura	Thousand Oaks	No	No	180	255	160	126	721



Zone #	County	City	DAC?	LIC?	Employee Score	Renter Score	Road Tripper Score	Fleet Score	Combined Use Score
238	Ventura	Ventura	No	Yes	172	252	165	131	720
117	Santa Barbara	Santa Maria	No	Yes	173	252	145	145	715
283	Ventura	Ventura Unincorporated	No	No	190	235	150	140	715
216	Ventura	Camarillo	No	No	177	240	165	127	709
225	Ventura	Oxnard	No	No	181	250	156	119	706
118	Santa Barbara	Santa Maria	No	Yes	175	255	144	130	704
166	Santa Barbara	Santa Barbara	No	No	180	249	154	121	704
219	Ventura	Ventura Unincorporated	No	No	181	257	146	117	701

Zonal Mapping and Visualization

The zonal scores for each of the four use cases were tagged to the 288-zone geographic shapefile for the purposes of spatial querying, mapping, and online visualization. A single shapefile was then provided to each member of the project team. The zonal scoring shapefile was then used to develop a series of online and offline maps to visualize the EVSE scoring results. Below are links to the publicly accessible online maps visualizing recommended EVSE locations from the analysis. Screenshots of maps developed by Fehr & Peers to illustrate the highest scoring zones for review purposes are also provided below.

EVSE Siting Maps for Workplace Destinations

EVSE Siting Maps for Multi-unit Developments or High Renter Occupied Areas

EVSE Siting Maps for Travelers

EVSE Siting Maps for Fleet Operators

EVSE Siting Maps for the Combined Use Score

Andy Mutziger October 16, 2018 Page 17 of 21



The map below shows the highest 25-scoring zones for workplace destinations in the Tri-County Region represented by green dots. As shown below and discussed previously, an inequitable number of high scoring zones (22 out of 25) were located in Ventura County due to its population and land use density, as magnitude of pass-through and parking trips of particular lengths were an important aspect of the scoring, even with the inclusion of additional metrics. Therefore, two alternative ways of looking at the results were developed to provide a more universally usable reference tool and to ensure an equitable distribution of EVSE which are discussed below.



Andy Mutziger October 16, 2018 Page 18 of 21



The first alternative way of looking at the top scoring zones was looking at the top-10, top-20, and top-30 scoring zones for each county independently to provide each county with their own reference tool specific to their areas of concern. The map below shows the top-30 scoring zones for workplace destinations in San Luis Obispo County in orange, in Santa Barbara County in blue, and in Ventura County in yellow with the top-10 scores represented by the largest dots, the top-20 scores represented by the second-largest dots, and the top-30 scores represented by the smallest dots. As shown below, the distribution of the highest scoring zones is much more equitable under this alternative way of looking at the results with the dots spread out amongst the cities and for the most part concentrated along US 101.



Andy Mutziger October 16, 2018 Page 19 of 21



The second alternative way of looking at the top scoring zones was looking at the top-five scoring zones in either low-income or disadvantaged communities for each county independently. The map below shows the top-5 scoring zones for workplace destinations in San Luis Obispo County in green, in Santa Barbara County in blue, and in Ventura County in brown. As shown below, the distribution of the highest scoring zones is concentrated in the City of San Luis Obispo, City of Santa Maria, and City of Santa Barbara but spread out across Ventura County, consistent with the locations of areas designated as LIAs and DACs. This set of maps were developed to help support a more equitable distribution of EVSE infrastructure for the Tri-Counties area by ensuring high scoring zones were identified in LIAs and DACs.



Andy Mutziger October 16, 2018 Page 20 of 21



LIMITATIONS OF THE ANALYSIS

The primary limitation of the EV siting analysis was the aggregate level of the zonal geographic layer with only 288 zones designated for the entire Tri-County reason. This limitation was largely driven by travel behavior data costs and privacy issues which were determined to be an important metric due to the assumption that higher travel demand would be associated with a higher demand for EV charging. However, it was also driven by the intention of the analysis to provide a high-level analysis to feed into more granular siting and planning in other tasks performed by teaming partners with more specific knowledge of localized siting opportunities. The goal of this task was also to develop a framework for a tool that could be used by a variety of users and updated, expanded, and refined for future EV siting and planning.

Another limitation of the EV siting analysis was data quality issues associated with the existing relevant data sources. For instance, the framework originally included the number of existing fleet operators with six or more trucks, but this data was found to be of pool quality so was removed. The framework also originally included the location of existing L1, L2, and DCFCs but was removed over similar concerns largely due to the lack of up-to-date sources. A key concern of any data-driven model development is quality of the data so we included only data sources we reviewed and felt were accurate while ensuring the development of a flexible framework to which future datasets, zonal detail, and refined scoring/weighting criteria could be added.

As suggested above, the EV siting tool could be improved in the future by the inclusion of more disaggregate data, additional data sources with information that influences demand for EV charging, and the ability to refine scoring/weighting criteria in specific areas or area types such as central business districts or rural areas.

Andy Mutziger October 16, 2018 Page 21 of 21



REFERENCES

Below are links to the data sources used to obtain existing data relevant to (future/needed) EVSE strategic siting opportunities for the Tri-County area.

California Electric Substation Data

Potential DCFC Sites Identified by PG&E

Southern California Edison's Distributed Energy Resource Interconnection Map

California SB 535 Disadvantaged Communities and AB 1550 Low-income Communities



StreetLight InSight[®] Metrics for SLOCAPCD ZEVRI Project: Our Methodology and Data Sources

StreetLight Data is a firm that develops software that process Big Data into comprehensive analytics about travel behavior, as described below. The *StreetLight InSight* tool has been used in hundreds of transportation and urban planning projects across the US and Canada.

Locational Data Sources and Probe Technologies

StreetLight Data's Metrics are currently derived from two types of locational "Big Data": navigation-GPS data and Location-Based Services (LBS) data. StreetLight has incorporated and evaluated several other types of mobile data supply in the past, including cellular tower and ad-network derived data.

As the mobile data supply landscape has evolved and matured over time, we have determined that a combination of navigation-GPS data and LBS data is best suited to meet the needs of transportation planners. As of September 2017, StreetLight's data repositories process analytics for over 62M devices, or ~23% of the adult US and Canadian population, and about 12% of commercial truck trips. We currently use one major navigation-GPS data supplier, INRIX, and one LBS data supplier, Cuebiq.

Our Navigation-GPS and LBS Data Sources

See Figure 1 below for a visualization of these data sources.

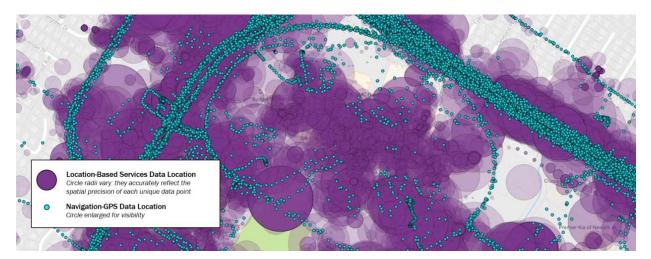


Figure 1 – Filtered visualization of a subset of unprocessed navigation-GPS and LBS data near a mall in Fremont, California.



LBS data can be processed into personal travel patterns at a comprehensive scale. Its fairly high spatial precision and regular ping rate allow for capturing trips as well as activity patterns (i.e.: home and work locations), trip purpose, and demographics.

Cuebiq, our LBS data supplier, provides pieces of software (called SDKs) to makers of mobile apps to facilitate Location-Based Services. These smartphone apps include: couponing, dating, weather, tourism, productivity, locating nearby services (i.e.: restaurant/bank/gas station), and many more apps, all of which utilize their users' location in the physical world as part of their value. The apps collect anonymous user locations when they are operating in the foreground. In addition, these apps may collect anonymous user location occurs when the device is moving. LBS software collects data with WiFi proximity, a-GPS and several other technologies. As such, all the data that StreetLight uses has better than 20-meter spatial precision.

LBS data complements navigation-GPS data, which has a smaller sample size but does differentiate commercial truck trips from personal vehicle trips. This makes navigation-GPS data ideal for commercial travel pattern analyses. Navigation-GPS data is also suitable for very fine resolution personal vehicle travel analyses (e.g.: speed along a very short road segment) because of its extremely high spatial precision and very frequent ping rate.

INRIX, our navigation-GPS data supplier, provides data that comes from navigation-GPS devices and turn-by-turn navigation smartphone apps. For personal vehicles, if the vehicle is in INRIX's partner system and has a navigation console, INRIX (and thus StreetLight) will collect a "ping" every few seconds whenever the vehicle is on, even if the driver is not actively using the navigation system. This provides a very complete picture of vehicles' travel patterns and certainty that the trips are in vehicles. INRIX also provides us with data for medium-duty and heavy-duty commercial trucks. For commercial trucks, if the vehicle's on-board fleet management system is within INRIX's partner system, INRIX (and thus StreetLight) will collect a ping every one to three minutes whenever the vehicle is on, even if the driver is not actively using navigation.

Data Processing Methodology

Step 1 – ETL (Extract Transform and Load)

First, we pull data in bulk batches from our suppliers' secure cloud environments. They have been de-identified by suppliers before they are obtained by StreetLight. The ETL process not only pulls the data from one environment securely to another, but also eliminates corrupted or spurious points, reorganizes data, and indexes it for faster retrieval and more efficient storage.



Step 2 – Data Cleaning and Quality Assurance

After the ETL process, we run several automated, rigorous quality assurance tests to establish key parameters of the data. To give a few examples, we conduct tests to:

- Verify that the volume of data has not changed unexpectedly,
- Ensure the data is properly geolocated,
- Confirm the data shares similar patterns to the previous batch of data from that particular supplier.

In addition, StreetLight staff visually and manually reviews key statistics about each data set. If anomalies or flaws are found, the data are reviewed by StreetLight in detail.

Step 3 – Create Trips and Activities

For any type of data supply, the next step is to group the data into key patterns. For example, for navigation-GPS data, a series of data points whose first time stamp is early in the morning, travels at reasonable speeds for a number of minutes, and then stands still for several minutes, could be grouped into a probable "trip." For LBS data, we follow a similar approach. However, since LBS data continues to ping while the device is at the destination, we see clusters of pings in close proximity at the beginnings and ends of trips.

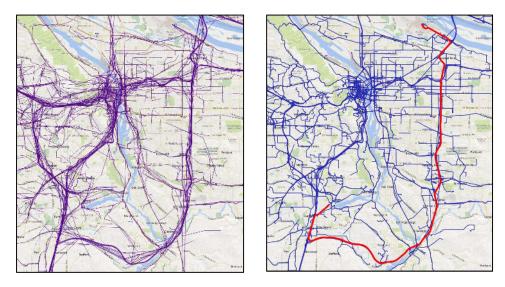
Step 4 – Contextualize

Next, StreetLight integrates other "contextual" data sets to add richness and improve accuracy of the mobile data. These include road networks and information like speed limits and directionality, land use data, parcel data, and census data, and more.

For example, a "trip" from a navigation-GPS or LBS device is a series of connected dots. If the traveler turns a corner but the device is only pinging every 10 seconds, then that intersection might be "missed" when all the device's pings are connected to form a complete trip. StreetLight utilizes road network information including speed limits and directionality, to "lock" the trip to the road network. This "locking" process ensures that the complete route of the vehicle is represented, even though discrepancies in ping frequency may occur. Figure 2, below, illustrates this process.

STREETLIGHTDATA

Figure 2: "Unlocked" Trips becoming locked trips.



As another example, if a device that creates LBS data regularly pings on a block with residential land use, and those pings often occur overnight, there's a high probability that that the device's owner lives on that block/block group. This allows us to associate "home-based" trips and a "likely home location" to that device. In addition, we can append distribution of income and other demographics for residents of that census block to that device. That device can then "carry" that distribution everywhere else it goes. (Our demographic data sources for the US are the Census and American Community Surveys. In Canada, our source is Manifold Data.) This allows us to normalize the LBS sample to the population, and to add richness to analytics of travelers such as trip purpose and demographics.

Step 5 – More Quality Assurance

After patterns and context are established, additional automatic quality assurance tests are conducted to flag patterns that appear suspicious or unusual. For example, if a trip appears to start at 50 miles per hour in the middle of a four-lane highway, that start is flagged as "bad."

Step 6 – Normalize

Next, the data is normalized along several different parameters. As all data suppliers change their sample size regularly (usually increasing it), monthly normalization occurs. For LBS data, we perform a population-level normalization for each month of data. For each census block, StreetLight measures the number of devices in that sample that appear to live there, and makes a ratio to the total population that are reported to live there. A device from a census block that has 1,000 residents and 200 StreetLight devices will be scaled differently



everywhere in comparison to a device from a census block that has 1,000 residents and 500 StreetLight devices.

For navigation-GPS trips, StreetLight uses a set of public loop counters at certain highway locations to measure the change in trip activity each month. Then it compares this ratio to the ratio of trips at the location, and normalizes appropriately.

Step 7 – Store Clean Data in Secure Data Repository

After being made into patterns, checked for quality assurance, normalized, and contextualized, the data is stored in a proprietary format. This enables responses to queries via the *StreetLight InSight* platform in an extremely efficient manner.

Step 8 – Aggregate in Response to Queries

Whenever a user runs a Metric query via *StreetLight InSight*, our platform automatically pulls the relevant trips from the data repository and aggregates the results. Results always describe aggregate behavior, never the behavior of individuals.

Step 9 – Selection of Metrics for SLOCAD ZEVRI Project

StreetLight presented all possible travel behavioral Metrics to the ZEVRI team. Based on local context and expert knowledge of EV Charging behavior, the following were selected as relevant for the project at hand:

- Total auto trips passing through
- Total auto trips "parking"
- Total auto trips parking with 20+ miles, 40+ miles, and 100+ miles to go on next trip
- Medium-duty truck trips passing through of 40+ miles
- Medium-duty truck trips "parking" of 40+ miles
- Heavy-duty truck trips passing through of 40+ miles
- Heavy-duty truck trips "parking" of 40+ miles
- Number of personal trips that were home based, work based, or going elsewhere.

Each Metric was created for each Zone of Interest in the study area, as shown below.



		-		-					_		· 1			
ZONE	P Auto Trips	P Auto T 20+	P Auto T 40+	P Auto T 100+	P Auto Park	P Auto P 20+	P Auto P 40+	HD Truck Trips	HD Truck Park	MD Truck Trips	MD Truck Park	HBW	HBO	NHB
100	41,033	27,985	25,194	19,778	8,615	2,269	1,618	49,738	603	27,203	1,509	1,482	3,455	3,67
101	81,312	43,095	31,224	21,873	50,994	4,904	2,381	60,815	1,254	41,403	1,966	7,343	19,276	24,37
102	74,555	18,639	11,183	5,964	22,969	1,728	437	52,916	195	29,607	303	4,801	10,520	7,64
103	22,457	2,493	876	247	5,624	504	123	473	4	749	188	1,327	3,082	1,22
104	64,086	52,422	25,250	14,996	15,174	1,642	640	21,078	304	28,465	761	3,338	6,874	4,96
105	17,711	12,309	4,428	1,541	10,097	1,110	337	447	201	1,755	173	1,969	4,937	3,19
106	8,095	7,229	3,465	1,506	16,313	2,799	672	49	22	932	207	2,626	6,933	6,75
107	17,211	3,305	1,050	344	5,303	561	133	32	85	671	248	1,135	2,588	1,58
108	122,651	72,119	33,116	17,784	10,041	654	205	21,946	293	31,815	234	3,785	2,942	3,31
109	85,020	55,943	26,696	15,049	18,619	1,452	664	21,170	61	29,519	158	4,487	7,410	6,72
110	160,042	64,177	31,528	16,644	70,565	5,674	1,708	21,679	81	31,137	396	12,984	26,180	31,40
111	197,675	61,872	32,616	16,605	20,147	1,326	163	21,729	163	30,940	375	5,984	6,790	7,37
112	72,265	8,310	2,023	795	36,718	2,991	598	370	104	1,295	187	7,784	14,210	14,72
113	55,097	18,623	6,942	2,424	34,424	1,899	691	812	28	3,335	111	7,780	15,250	11,39
114	15,166	2,563	1,380	485	3,233	297	148	372	12	1,040	58	475	1,267	1,4
115	17,774	3,093	1,351	409	5,515	510	146	210	485	771	430	1,428	2,973	1,13
116	126,735	61,720	34,218	16,982	61,488	4,394	2,167	22,461	461	30,060	1,109	10,822	27,793	22,87
117	114,297	60,349	37,832	18,745	64,333	3,756	1,231	38,311	618	31,796	1,068	13,510	31,523	19,30
118	127,457	57,356	38,110	18,864	66,912	4,526	1,162	39,212	1,186	33,050	1,320	10,572	28,438	27,90
119	92,455	60,558	36,797	17,936	19,544	1,460	538	35,629	493	30,983	658	4,085	10,769	4,6
120	18,375	2,334	588	147	10,035	789	214	3,053	5,084	3,355	2,820	2,910	4,044	3,0
121	22,613	12,075	3,256	588	2,487	126	49	4,611	508	5,196	625	632	614	1,2
122	2,093	1,333	825	295	2,888	211	73	654	985	556	619	777	1,557	5
123	9,264	8,458	2,159	343	11,542	1,059	270	1,224	345	2,213	285	2,862	3,440	5,24

Figure 3 – Screen Shot of Travel Behavioral Scores for each Zone

Step 10 – Indexing of SLOCAD ZEVRI Metrics

One of the goals of the project was to enable easy and intuitive comparison of the strength of different locations for EV Charging that met the goals of the project. Because different Metrics were on different scales, it became different to compare them. To mitigate this, the team Indexed each Metric on a scale of 1-5 based on the quintile the score falls into. For example, the lowest monthly number of personal car trips over 20 miles was 102, and the highest 500,000. Thus, a zone with 102 such trips got a score of 1 (first quintile), and a zone with 251,000 got a score of \sim 3 (third quintile).

Appendix B-1: Metric Data for All 288 Zones

70.07	Country		PG&E	SCE	Multi-Family	Multi-Family	Retail	Office		ther	PG&E DC		Existing L1 or L2 Existing DC Fa		Personal Auto Trips P								Medium Duty Truck Med		ome-Based Ho	me-Based N	on-Home-
20NE 100 Sa	County DAG n Luis Obispo	AC LIC 0 1	Substation 1 0	Substation 0	Units 579	Growth 86	Employees 5 61	Employees Off 121	fice Growth Emp 20	bloyees Fleet Operate 815	rs Capacity	Capacity	Chargers Chargers	Personal Auto Trips 0 41,033	20+ Miles 27,985	40+ Miles 25,194	100+ Miles 19,778	Parking Events 8,615	With 20+ Miles Left 2,269	With 40+ Miles Left 1,618	Trips 49,738	Parking Events 603	Trips P 27,203	arking Events 1,509	Nork Trips O 1,482	ther Trips Bi 3,455	ased Trips 3,679
	n Luis Obispo	0 1	1 1	0	1062 236	457	7 742) 244	2286	151	2074 511	1	1 (0 8	1 81,312 0 74,555	43,095 18,639	31,224 11,183	21,873 5,964	50,994 22,969	4,904 1,728	2,381 437	60,815 52,916	1,254 195	41,403 29,607	1,966 303	7,343 4,801	19,276 10,520	24,375
	n Luis Obispo n Luis Obispo	0 1	1 1	0	236	() 244) 0	199 12	30 0	140	0	т (0 0	0 74,555	2,493	876	247	5,624	1,728	437	473	4	29,607 749	188	1,327	3,082	7,649 1,220
	n Luis Obispo n Luis Obispo	0 0	0 1	0	948 243	183		2771	0 89	893 410	0	1 (0 0	0 64,086 0 17,711	52,422 12.309	25,250 4,428	14,996 1,541	15,174 10.097	1,642 1,110	640 337	21,078 447	304 201	28,465 1,755	761 173	3,338 1.969	6,874 4,937	4,962 3,191
	n Luis Obispo	0 0	0 0	0	112	78		112 344	23	723	1	1 (D 3	0 8,095	7,229	3,465	1,541	16,313	2,799	672	447	201	932	207	2,626	6,933	6,754
	n Luis Obispo n Luis Obispo	0 1	1 0	0	512 642	14) 113 1 11	198 94	18 18	484 1068	0	D (0 17,211 0 122,651	3,305 72,119	1,050 33,116	344 17,784	5,303 10,041	561 654	133 205	32 21.946	85 293	671 31.815	248 234	1,135 3,785	2,588 2,942	1,580 3,314
109 Sa	n Luis Obispo	0 1	1 0	0	387	C	85	725	0	1175	0	D (D 0	0 85,020	55,943	26,696	15,049	18,619	1,452	664	21,170	61	29,519	158	4,487	7,410	6,721
	n Luis Obispo n Luis Obispo	0 1	1 0 1 0	0	1397 235	14 205		3101 1316	253 0	2068 1433	2	1 (D (0 1 D 2	0 160,042 0 197,675	64,177 61,872	31,528 32,616	16,644 16,605	70,565 20,147	5,674 1,326	1,708 163	21,679 21,729	81 163	31,137 30,940	396 375	12,984 5,984	26,180 6,790	31,401 7,374
	n Luis Obispo	0 0	0 0	0	1193	76	5 224	981	68	695	2	1 (2 4	0 72,265	8,310	2,023	795	36,718	2,991	598	370	104	1,295	187	7,784	14,210	14,724
	n Luis Obispo n Luis Obispo	0 1	1 1 1 0	0	1148 90	(0 176 0 20	120 44	13	571 83	0	1 (D 0	0 55,097 0 15,166	18,623 2,563	6,942 1,380	2,424 485	34,424 3,233	1,899 297	691 148	812 372	28 12	3,335 1,040	111 58	7,780 475	15,250 1,267	11,394 1,487
	n Luis Obispo n Luis Obispo	0 1	1 0	0	573 1638	197 1035		133 933	0	321 2155	0	D (0 0	0 17,774 0 126,735	3,093 61,720	1,351 34,218	409 16,982	5,515 61,488	510 4.394	146 2,167	210 22,461	485 461	771 30,060	430 1,109	1,428 10,822	2,973 27,793	1,114 22,874
	anta Barbara	0 1	1 1	0	2018	504	4 2016	1452	399	5386	10	1 (0	0 114,297	60,349	37,832	18,745	64,333	3,756	1,231	38,311	618	31,796	1,105	13,510	31,523	19,300
	anta Barbara anta Barbara	0 1	1 0	0	1412	526		969 48	287 15	2994 540	3	0 (D (D 6	0 127,457 0 92,455	57,356 60,558	38,110 36,797	18,864 17,936	66,912 19,544	4,526 1,460	1,162 538	39,212 35,629	1,186 493	33,050 30,983	1,320 658	10,572 4,085	28,438 10,769	27,902 4,691
120 Sa	anta Barbara	0 1	1 1	0	0	(234	83	31	3507	11	0 0	0 0	0 18,375	2,334	588	147	10,035	789	214	3,053	5,084	3,355	2,820	2,910	4,044	3,081
	anta Barbara anta Barbara	0 1	1 0 1 0	0	0	() 50) 122	0 88	0 14	1303 448	0	D (D 0 D 0	0 22,613 0 2,093	12,075 1,333	3,256 825	588 295	2,487 2,888	126 211	49 73	4,611 654	508 985	5,196 556	625 619	632 777	614 1,557	1,241 554
	anta Barbara anta Barbara	0 1	1 0	0	0 4610	1225) 1 5 1252	6293 2510	2444 871	1474 2588	0	0 0	0 0	0 9,264 0 7,910	8,458 4,271	2,159 3,251	343 799	11,542 30,726	1,059 3,631	270 1,620	1,224 2,570	345 728	2,213 2,633	285 1,241	2,862 7,405	3,440 15,117	5,240 8,204
	anta Barbara	0 0	0 0	0	4610	1225	48	2510	0	41	0	1 (D 2	0 46,645	46,505	38,715	20,151	2,271	1,036	821	28,151	278	27,258	311	425	1,033	813
	anta Barbara anta Barbara	0 0	0 1	0	0 469	124) 952 1055	141 638	107 172	1262 1506	1	1 (D (D 2	12 40,053 0 11,877	37,249 4,858	30,841 2,387	15,460 653	21,030 35,428	6,116 8,026	3,913 4,047	28,243 331	772 204	24,210 638	2,295 420	4,500 7,192	8,160 14,136	8,370 14,065
128 Sa	anta Barbara	0 0	0 0	1	0	(0 0	0	0	7	0	0 0	0 0	0 42,698	42,399	38,087	17,549	621	605	364	30,435	1,467	29,301	727	11	146	464
	anta Barbara anta Barbara	0 0	0 0 1 0	1	0	() 0) 0	0	0	366 6	0	D (D 0 D 0	0 43,500 0 33,686	43,152 31.699	38,454 18,797	17,705 9.634	1,048 888	442 228	179 78	32,088 897	177 2	29,917 2,259	194 16	31 61	299 219	718 607
131 Sa	anta Barbara	0 1	1 0	0	0	C	10	11	4	181	0	0 0	0 0	0 251	197	175	99	687	37	12	17,518	675	3,685	963	161	238	288
	anta Barbara anta Barbara	0 1	0 0	0	0	() 8) 92	22 0	0	113 98	0	1 () D ()	0 0	0 148 0 13,386	144 1,446	138 830	94 147	92 2,218	25 151	23 75	16,339 29	1,183 16	3,549 253	257 154	20 264	44 818	28 1,133
	anta Barbara anta Barbara	0 0	0 0	1	0	0	8	110	47	63 711	0	0 0		0 35,312 0 26,307	32,840 2,289	19,280	9,993 658	3,013 2,625	564	316 96	884 31	28	2,076 314	82 41	259 643	1,513 1,194	1,241 790
136 Sa	anta Barbara	0 0	0 0	1	0	() 0) 1744	783	428	2716	0	0 1	1 0	1 110,817	49,646	43,551	20,390	74,134	4,829	3,266	31,806	1,956	30,223	1,695	17,125	30,840	26,169
	anta Barbara anta Barbara	0 0	0 0	0	197 748	2303		582 159	225	3813 1459	0	D 1 D 1	1 0 1 2	0 211,683 1 187,272	59,483 58.616	50,592 49.814	22,862 22,660	25,999 9,499	1,860 694	1,221 490	35,471 35,939	450 351	33,207 34,691	1,591 562	6,812 2,261	7,878 3,923	11,310 3,325
139 Sa	anta Barbara	0 0	0 0	1	362	61	L 1222	66	14	1245	0	D 1	1 1	0 91,458	29,815	24,785	10,975	54,026	2,629	1,852	18,880	392	18,014	1,094	10,535	23,663	19,828
	anta Barbara anta Barbara	0 0 0	0 0 1 0	1	0	() 10) 49	4 638	1 221	119 242	1	D 1 D (1 0 D 3	0 170,338 0 140,540	66,261 34,432	46,673 27,265	21,974 11,805	14,921 11,230	727 844	517 630	20,115 19,062	10 378	20,342 18,142	96 295	3,999 2,572	8,192 5,155	2,731 3,504
	anta Barbara	0 1	1 0	1	0	() 5	3455	1296	317	0	0 1	1 8	0 182,042	65,717	46,785	21,845	4,308	244	157	20,361	21	20,487	74	1,228	1,848	1,232
	anta Barbara anta Barbara	0 0	0 0	1	0 296	25	5 258	75 358	39 95	321 2192	0	D 1	0 0 1 2	0 94,401 0 255,535	35,212 54,173	21,146 40,119	10,479 17,376	16,580 60,259	892 3,116	583 1,780	960 20,111	23 96	2,465 20,220	97 357	4,195 16,390	8,191 27,297	4,195 16,571
	anta Barbara	0 0	0 0	1	485	25		281 21	67	1425 147	0	0 1	1 4	5 383,851 0 89.061	97,882	77,154 3.830	35,314	97,102	5,404 430	3,326 294	38,786 283	361	39,825 920	764 29	14,468 2.888	38,161 5,927	44,473 2,001
	anta Barbara anta Barbara	0 0	0 0	1	406	21) 181	739	244	1159	0	נ ט 1 ס	1 0	0 306,272	6,323 82,693	66,155	891 30,321	10,816 69,463	430 3,013	2,009	38,412	116	38,319	358	18,338	33,134	17,991
	anta Barbara anta Barbara	0 0	0 0	1	299	47		83 1706	26 871	696 2837	0	D 1	1 0	0 236,786 0 236,480	63,459 62,431	53,514 52,972	24,152 23,884	22,952 14,074	1,000 719	693 484	37,481 36,435	53 699	36,359 35,286	346 1,324	4,751 4,194	11,017 4,461	7,184 5,404
	anta Barbara	0 0	0 0	1	54	23	3 623	206	56	583	0) C	0 0	0 236,480	6,654	4,123	23,884 868	67,574	3,045	484 1,813	36,435	188	35,286	258	14,934	33,652	18,988
	anta Barbara anta Barbara	0 0	0 0	0	325	17	7 41	0	0	20 175	0			0 45,617 0 91,777	3,923 7,159	2,281 4,497	502 1,010	15,558 11.495	872 320	598 188	43 351	4	152 673	40 50	3,454 3,184	6,472 6,426	5,616 1,885
	anta Barbara	0 1	1 0	0	175	8	8 818	103	34	2005	0	D (D 10	0 87,937	11,959	7,563	1,671	30,396	3,005	2,100	130	6	666	170	4,955	10,821	14,620
	anta Barbara anta Barbara	0 1	1 0	0	645 194	80 18		76 215	17 53	261 915	0	D (0 0	0 399,461 0 359.817	117,442 114,782	91,077 89,594	38,348 37,781	11,429 9,733	410 556	229 287	40,025 40.011	11 12	41,755 41,555	31 60	3,429 2,462	4,640 3,679	3,360 3,601
	anta Barbara	0 1	1 0	1	1613	83		1062	229	1402	0	5 1 D 1	1 0	0 436,568	112,635	87,750	37,545	33,027	1,655	1,056	39,923	33	41,307	146	6,308	13,475	13,244
	anta Barbara anta Barbara	0 1	1 0	1	780 603	38		2892 1784	765 627	4239 3906	0	D 1	1 12 1 2	1 174,535 0 352,179	12,916 120.093	8,029 94,032	1,745 38,388	107,907 100.560	6,597 6,675	4,172 4.417	246 40,107	31 379	823 41.790	336 427	23,092 16,592	37,336 34,693	47,479 49,174
159 Sa	anta Barbara	0 1	1 0	1	437	148	3 669	38	12	694	0	0 0	D 4	0 197,442	64,366	49,953	20,534	35,956	3,728	2,556	19,737	35	21,626	172	3,811	12,692	19,452
	anta Barbara anta Barbara	0 1 0 1	1 0 1 0	1	0 76	4) 189 1 67	244 3	194 1	1874 136	2	D (D 6 D 0	0 354,407 0 313,960	135,383 140,340	104,904 108,944	40,048 40,501	27,016 11,924	2,786 904	1,748 533	40,625 41,095	277 43	42,905 43,247	368 28	3,620 1,526	9,212 5,449	14,156 4,948
	anta Barbara	0 0	0 0	0	0	(274	19	19	658	0	0 1	1 4	0 299,801	141,506	110,027	40,473	33,989	3,527	2,594	41,112	177	43,239	129	6,016	11,318	16,689
	anta Barbara anta Barbara	0 1	1 0 0 0	1	155 194	10	3 441 D 20	55 33	22 12	1246 612	0) () (D 0 D 0	0 101,678 0 86,266	8,134 7,074	5,084 4,486	915 776	25,557 28,190	1,310 1,420	808 807	235 61	32 31	770 484	323 117	4,907 7,639	10,453 12,516	10,197 8,062
	anta Barbara	0 0	0 0	1	1195	61		22	4	126	0	D (0 0	0 393,386 0 462,969	106,214	83,004	36,585	7,737	394	224	39,528	7	40,994	23	1,927	3,760	2,050
	anta Barbara anta Barbara	0 0	0 0	1	1936 1014	99 52		4659 511	1644 154	2395 1173	0) (0 0	0 156,874	104,631 9,412	81,946 5,647	36,112 1,255	56,404 46,556	3,141 1,679	1,778 1,039	39,330 84	142 17	40,457 600	549 177	11,788 10,894	23,746 20,671	20,869 14,991
	anta Barbara anta Barbara	0 0	0 0	1	182	9	27	105 84	32 30	476 311	0) (0 4	0 100,075 0 149,682	6,205 6,885	3,703 4.041	701 898	35,592 23,610	1,460 995	1,022 671	14	3	449 501	104 64	8,827 4,887	17,547 11,711	9,218 7,036
170 Sa	anta Barbara	0 0	0 0	1	92	() 2	8	3	146	0	5 (5 (0	0 106,718	10,031	6,403	1,174	23,939	1,133	770	223	3	753	72	6,104	11,467	6,368
	anta Barbara anta Barbara	0 0	0 0	1	0	0) 0) 515	8 277	3 76	505 590	0) () (D 0 D 2	0 76,804 0 45,899	6,528 3,993	3,840 2,341	614 459	16,617 45,120	858 2,900	572 1,854	12 17	4	389 351	63 108	2,858 10,603	7,827 17,191	5,932 17,326
173 Sa	anta Barbara	0 0	0 0	1	102	17	7 297	113	18	611	0	D 1	1 3	0 229,478	86,972	66,778	22,030	36,102	2,752	1,823	22,237	16	23,552	117	6,932	12,816	16,354
	anta Barbara anta Barbara	0 0	0 0 0 0	1	0	0) 56) 121	27 4	0	97 245	0) () (0 0 0	0 129,706 0 78,672	11,025 9,913	7,004 6,215	1,038 1,023	9,840 30,089	477 1,568	266 865	42 140	2	688 623	18 39	2,322 6,078	4,044 6,499	3,474 17,512
176 Sa	anta Barbara	0 0	0 0	1	0	C	0 0	3	1	51	0	0 1	1 0	0 261,387	152,127	118,408	41,561	5,601	472	304	41,384	18	43,487	32	1,115	2,408	2,078
	anta Barbara anta Barbara	0 0		0	0	C C) 155) 13	11 0	4 0	263 164	0) 1) (2 D 0	0 224,625 0 205,122	158,810 161,636	123,319 125,330	42,005 42,460	9,706 12,781	1,025 1,241	611 764	41,241 41,584	299 50	43,623 43,894	207 93	2,485 2,722	3,582 6,237	3,640 3,834
	anta Barbara	0 0		-	0	C) 58 7 432	0 60	0	447 4899	0	0 1	1 0	0 16,629	7,450	4,756	1,081	4,130	481	247	1,117 40,876	48	1,344 42,474	170 460	1,243	1,718	1,165
	anta Barbara anta Barbara	0 1		1	132 292	35		5	25 2	177	1	5 (D 1	1 0	0 343,083 0 194,764	135,175 164,186	104,983 126,986	39,798 42,653	20,829 6,674	1,281 1,492	672 850	41,559	132 521	44,087	587	3,937 1,155	8,686 2,389	8,186 3,130
	anta Barbara anta Barbara	0 1 0		1	97 0	e	616	203 1	92 2	1394 251	0	0 1	1 6	0 188,268 0 7,530	167,182 2,741	128,964 1,303	42,737 301	17,478 4,047	3,463 458	2,003 205	42,304 160	397 32	44,387 387	717 85	2,552 1,137	6,362 1,388	8,582 1,522
184 Sa	anta Barbara	0 0	0 0	1	0	0	53	8	2	541	0	5 L D 1	1 0	0 111,329	87,839	66,686	21,153	5,684	862	456	22,576	217	23,184	294	1,404	2,683	1,597
		0 0		1	0	C		112 1	86 0	1730 23	0) (0 94,695 0 7,482	89,108 6,292	66,949 1,556	21,022 322	4,222 1,795	1,025 220	368 99	22,644 30	122 1	22,726 416	296 11	1,452 257	1,507 1,043	1,262 494
187 Sa		0 0		-	0	C	420	85	23	502	1	0 0	0 6	0 181,222	172,342	132,655	43,131	3,011	654	285	42,586	295	44,999	215	825	897	1,286
188 189		0 1 0		0	731 2253	20 1159		151 3079	271 1117	870 7762	0		0 0	0 38,447 0 337,484	8,843 218,352	1,576 101,583	154 8,775	7,447 84,845	1,269 14,779	158 2,493	291 40,899	3 953	880 38,574	69 1,313	1,951 19,854	3,954 41,574	1,542 23,417
190	Ventura	0 1	1 0		197	25	5 1044	336	128	1320	0	0 0	0 1	2 337,465	213,953	99,215	8,437	34,204	3,165	747	39,002	342	38,155	436	4,549	15,768	13,887
191 192		0 0 0		0	448 1195	327 1577		421 623	136 180	770 3586	0) (0 0	0 33,795 0 121,074	8,314 28,937	1,656 9,686	135 605	31,216 47,714	6,955 4,782	1,086 1,038	85 700	187 236	655 1,792	312 407	8,803 8,684	16,170 21,137	6,243 17,893
193	Ventura	0 1	1 0	0	44	20) 7	95	3	116	0	0 0	0 0	0 44,139	7,283	1,721	132	5,883	759	212	127	2	505	53	1,600	3,506	771
194 195		0 0 0		1	1732 1339	810		2346 390	218 112	6392 2464	3) () (5 D 0	1 393,830 0 101,619	205,973 35,160	94,913 17,072	8,270 2,134	111,274 29,715	13,686 3,279	2,956 1,160	36,492 24,691	1,933 213	35,305 15,669	1,803 264	20,141 7,399	47,959 13,996	43,174 8,320
196	Ventura	0 1	1 0	1	361	244	149	380	121	2177	1	0 0	0 0	0 63,389	28,271	14,453	2,092	31,711	3,053	1,093	22,082	1,471	13,745	1,185	7,611	12,843	11,289
197 198		0 0			361 219	15 939		333 227	139 79	1035 307	0) (0 0	0 47,251 0 24,467	17,388 9,395	7,749 4,453	567 416	47,981 17,388	8,633 4,148	3,072 1,589	409 528	26 21	2,447 2,733	319 74	12,283 3,391	27,445 8,972	8,253 5,025
199	Ventura	0 0	0 0	1	1497	228	3 113	241	43	1687	0	0 0	28	0 42,984	9,070	2,321	172	107,625	20,851	4,170	2	13	292	174	29,920	56,826	20,879
200 201		0 0			1409 1849	68 91		1587 2933	0 524	3706 7620	0	J 1 D 1	1 0 1 16	0 1,209,907 2 690,507	556,557 335,586	258,920 157,436	41,137 24,168	189,629 305,460	20,189 33,754	4,673 8,037	87,039 44,336	61 263	59,249 35,017	285 1,115	48,166 71,478	74,524 113,937	67,129 120,046
202	Ventura	0 0	0 0		19	3	3 1405	432	115	1171	0	0 1	1 3	1 1,011,996	515,106	250,975	40,480	145,760	13,740	2,838	86,629	167	58,305	347	21,427	57,138	67,195
203 204		0 1 0 1		1	714 1395	103 89		395 720	197 117	1190 877	0) 1 D 1	1 0	0 1,004,366 0 1,025,555	494,148 507,650	247,074 256,389	40,175 41,022	70,265 50,984	4,480 5,245	946 1,416	86,235 90,466	153 116	58,473 63,022	147 269	14,334 10,911	28,879 23,249	27,122 16,825
205 206		0 1 0 1			2169 220	104 22		2482 32	444 3	8041	0	0 1	1 14	2 836,488 0 222,738	466,760	251,783	42,661	228,664 12,812	19,836 1,499	4,959 344	91,778 3,462	256 58	63,686	834 44	36,358 3,075	97,411 6,931	94,896 2,806
207	Ventura	0 0	0 0	1	476	69	465	254	226	111 3716	0	0 1	1 1	0 471,909	84,418 165,640	27,397 56,629	2,227 4,719	144,099	15,358	4,065	8,804	179	7,073 14,770	604	30,549	69,312	44,238
208 209		0 0		1	132 140	54 256		53 3214	12 1219	543 11546	0	D (D 2 1 7	0 37,485 0 547,557	8,097 343,318	2,624 214,095	112 41,067	37,060 123,412	6,018 17,604	1,341 6,161	18 86,244	12 1,759	185 56,029	183 2,012	6,263 30,853	15,046 47,884	15,751 44,675
205		- 0	0	1	140	230	1050	5214						547,557	5-(5,510	224,000	-2,007	110,412	17,004	0,101	00,244	1,755	55,025	2,012	50,035	,	.4,075

Appendix B-1: Metric Data for All 288 Zones

ZONE	Courts	DAC LI	PG&E C Substation S	SCE	Multi-Family Units	Multi-Family Growth	Retail Employees	Office Employees O	fice Growth	Other Employees Fleet Operator	PG&E DC Capacity	SCE 15% Capacity	Existing L1 or L2 Exis Chargers		F Personal Auto Trips	Personal Auto Trips Pe 20+ Miles	rsonal Auto Trips Pe 40+ Miles			Personal Auto Parking With 20+ Miles Left	Personal Auto Parking I With 40+ Miles Left	leavy Duty Truck I	Heavy Duty Truck N Parking Events	Aedium Duty Truck M	1edium Duty Truck	Home-Based H Work Trips C	ome-Based N	Non-Home- Based Trips
210 211		0	1 0		2210 389	224 168	179 186	593 730	214 220	Employees Fleet Operator 2516 3695	0	Capacity	0 4	Chargers 0	462,556 82,413	322,864 33,377	205,375 17,389	41,167 2,802	26,562 33,565	3,366 5.183	1,466 2,450	84,808 32,180	117 754	56,030 20,406	700 1.145	5,897 8,223	11,554 15,104	9,111 10,237
211 212 213	Ventura Ventura	0	1 0	0	602 1787	22	186 105 541	103 1454	220 3 338	797 4394	0		0 0	0	485,928 451,411	303,219 294,771	17,389 196,801 193,655	40,818 41,078	33,505 12,465 72,621	5,183 495 6,834	2,430 252 3,788	90,973 82,385	754 33 531	57,517 54,395	1,145 149 910	8,223 2,767 12,781	5,908 29,992	3,789 29,847
214	Ventura	0	0 0	1	8	643 0	756	552	243	2232	3		0 0	0	260,972	158,149	105,694	23,227	30,735	3,694	1,911	44,600	1,225	31,678	902	2,797	11,188	16,751
215 216	Ventura Ventura	0	0 0	0	1527 535 482	610 86	839 880	971 609	38 197	2560 2488 797	0		1 3	2	484,922 285,914 7.936	278,345 159,826	186,210 103,787	41,703 22,587	54,365 63,891	5,117 16,846	2,606 10,343	79,992 49,472	516 1,032 6	54,216 32,233	720 797	14,244 7,603 1,062	26,802 23,192	13,319 33,159
217 218 210		0 0	0 0	1	16	41 5	307	35 252	10 118	1005	1		0 0	0	99,337	4,111 50,861 179,744	1,302 30,397	63 3,278	3,351 2,997	645 328 7.569	289 145	25 10,937	435	135 8,837	68 305 637	668	1,263 851	1,025 1,478
219 220	Ventura	0	1 0	0	1533 109	1421 49	170 70	396 2790	724	3592 812	0		0 1	0	276,104 28,841 71,034	27,197	113,203 20,044	22,641 2,221	42,279 8,658	1,048	3,760 262	48,026 306	653 135 7.461	31,739 5,006	637 131 1.407	11,711 2,147 3,946	19,406 2,130	11,119 4,381
221 222	Ventura Ventura	1	1 0	0	879 0	510 0	169 168	119 1219	187 1805	5088 5672	2		0 2	0	238,029	34,949 150,434	21,878 103,781	2,557 23,327	16,237 7,030	2,982 1,534	2,097 728	8,551 49,408	10,166	7,614 33,075	5,029	2,327	6,381 1,181	5,910 3,529
223	Ventura	1	1 0	1	2195 1112	302 513	390 698 833	116 1084	44 476	2660 12838	4		0 2	0	94,126 74,123	32,379 13,194	20,708 6,671	2,824 815	29,074 21,620	2,118 1,448	1,294 724	18,174 5,055	1,225 8,969	10,775 3,170	718 3,947	6,454 5,535	14,915 7,610	7,705 8,475
225 226		0	1 0	0	617 269	305 44	1342	683 113	344 95	2631 1068	3		0 4	1	252,443 415,062	131,775 268,960	92,899 184,703	22,467 41,921	58,836 26,883	4,135 3,241	1,930 1,269	35,542 97,275	1,547 747	30,135 65,736	1,006	10,061 3,441	26,182 10,457	22,593 12,984
227	Ventura Ventura	0	0 0	1	607 159	75	795 29 889	249 38	131 3	1148 383	0		1 0	0	410,929 28,751	250,256 3,824	175,056 1,754	41,504 230 445	13,228 5,159	599 304	269 126	63,733 757	183	55,048 478	495 62 649	2,818 1,274	6,389 2,982	4,021 908
229 230 231		0	1 0	1	4525 3194 1090	165 436 146	334 160	1646 224 58	195 61 16	3826 1514 1238	0		0 0	0	44,519 60,154 74,423	9,304 11,008 9,898	5,120 5,414 5,061	445 602 595	48,811 27,464 19,269	3,272 1,888 1,106	1,565 861 527	1,075 9,091 1,824	1,354 204 492	1,050 1,875 1,576	355 225	10,006 6,784 3,796	21,916 15,023 10,135	16,889 5,658 5,338
231 232 233	Ventura	0	0 0	1	4111	653 694	406	341 335	71 319	2193 1993	0		1 0	0	54,832 134,678	8,663 30,976	4,112 16,431	603 1,481	77,774 14,068	12,570 1,432	7,086	2,207 2,372	452 58 289	1,376 1,796 3,320	677 284	14,622 3,193	39,976 7,090	23,099 3,770
233 234 235	Ventura	0	1 0	0	264 2754	44 522	44 269	47	4 410	271 2639	0		1 0	0	56,224	7,253	3,486 5,180	394 730	6,175	425	213 716	1,288 4,129	130 145	1,100 2,836	139 278	1,352 6,461	3,304	1,525
235 236 237		0	1 0	1	4143 3879	1413 201	1075 349	284 860	410 152 610	2635 2671 4846	0		1 1	2	266,053 406,622	132,494 251,292	92,320 180,134	22,615 44,322	75,700 97,359	5,966 13,090	2,588 4,991	4,125 27,103 70,811	1,711 3,013	27,060 64,034	907 3,080	12,945 19,180	35,276	27,479
237 238 239	Ventura	0	1 0	1	5151 922	1033 189	1532 1740	7810 3802	0 610	8313 8882	0		1 36	10	400,022 371,195 409,379	231,252 230,141 233,755	168,523 169,483	44,522 43,059 45,850	99,033 76,937	10,118 7,296	4,009 2,575	55,669 49,898	913 2,747	52,567 52,670	2,504 2,349	18,222	40,830 42,287 26,697	38,524 37,084
240 241	Ventura Ventura	0	1 0	1	2295 206	1400	2042	1428 148	184	8365 900	0		1 19	2	410,709	238,211 28,527	174,551	45,589	135,161 17.088	13,457	4,943 1,011	45,858 56,357 2,188	1,338 115	58,023 3,263	1,870 178	29,600	57,173 8.629	48,388
242 243	Ventura Ventura	0	0 0	0	1682 395	291 71	253 102	765	137	2159 490	0		1 4	0	296,995 91,711	202,254	151,467	44,252	54,076 6,317	9,490 316	4,986	46,391	378	49,261	976 89	8,868 954	23,199 2,900	22,009
244 245	Ventura	0	1 0	1	943 237	40	44	27	9	429 577	0		0 0	0	60,024 52,772	35,594	26,110 13,246	6,363 897	4,878 1,788	636 160	298 52	27,671	61 246	21,930	1,606 459	1,078 390	2,454 915	1,346
246 247	Ventura Ventura	0	1 0	0	876 1903	115 1004	182	444 465	230 263	2984 2769	2		0 2	0	82,230 41,730	51,065 31,965	35,194 24,996	7,483	9,431 13,968	2,334 1,573	1,019 721	30,343 29,470	2,547	27,886 24,515	3,945 798	1,981	4,225 7,124	3,235 3,897
248 249	Ventura Ventura	0	1 0 1 0	0	1727 1119	305 351	736 179	239 290	399 235	2288 2075	0	l	1 0 1 0	0	43,561 36,338	31,582 34,012	24,743 27,944	5,881 6,359	13,221 9,826	1,260 2,679	378 634	27,380 30,254	378 879	22,212 26,615	512 987	2,988 2,280	7,100 5,296	3,133 2,260
250 251		0 0	1 0 1 0	0	70 47	23 60	0	1 17	1 6	111 63	0		0 0 0 0	0	33,113 6,144	30,431 5,646	24,802 1,143	5,927 215	1,030 1,550	230 307	49 185	29,234 43	21 24	24,738 532	67 366	152 222	501 473	377 856
252 253		0 0	1 0 1 0	0	468 807	142 304	219 135	99 92	0 213	1317 805	0		0 0 0 0	0 0	12,562 36,059	3,630 33,499	2,161 28,162	188 6,346	20,352 6,095	4,243 2,802	1,569 867	57 30,884	84 1,244	473 27,098	294 1,591	4,864 1,012	9,382 3,066	6,106 2,017
254 255		1 0	1 0 1 0	0	2246 1934	676 830	658 416	1545 812	72 79	5282 2407	4 0	1	1 17 1 4	0 0	247,954 27,793	197,123 6,754	146,789 2,752	43,888 445	41,267 24,654	7,194 3,227	3,129 1,231	44,865 549	695 8	48,068 1,279	1,040 359	7,015 5,325	17,538 12,352	16,713 6,952
256 257		0 0	1 0 1 0	0 0	57 701	43 210	19 105	69 175	71 11	417 1750	0 0) 	1 0 1 4	0 0	205,332 46,495	188,700 24,921	140,242 10,740	43,736 883	2,685 19,538	860 3,680	351 1,362	43,593 1,042	782 41	46,923 2,709	317 183	403 4,885	859 8,558	1,420 6,096
258 259		0 0	0 0 0 0	0 0	283 3	84 0	193 21	461 52	16 10	1964 164	1		0 12 0 1	0	47,905 31,045	19,976 27,102	8,144 25,550	671 20,459	29,538 1,548	5,093 345	2,960 219	867 45,620	119 3,607	2,408 26,192	399 1,767	6,410 198	11,874 633	11,254 717
260 261	San Luis Obispo San Luis Obispo	0 0	0 0 1 0	0 0	22 37	0 0	0 368	0 169	0 10	0 928	0 0		0 0 0 4	0 0	69,903 158,292	39,355 46,380	26,423 21,053	17,825 10,764	1,190 27,045	99 2,360	39 1,046	22,506 11,641	4 32	28,674 17,772	2 204	156 2,272	646 9,682	388 15,091
262 263	San Luis Obispo San Luis Obispo	0	1 0 1 0	0	16 220	352 0	207 0	838 93	0	541 585	2 0		0 5 0 0	0 0	181,411 26,872	64,945 2,660	33,561 645	17,415 242	9,889 7,203	495 380	72 49	21,744 15	58 1	30,828 276	189 27	2,492 1,974	3,293 2,845	4,104 2,391
264 265	San Luis Obispo San Luis Obispo	0	0 1 0 1	0	655 114	0 251	294 412	732 840	0 95	685 1245	2 0		0 0 0 3	0	56,696 58,701	5,726 5,459	1,247 1,350	454 470	14,907 18,527	753 1,121	148 155	207 97	13 157	772 769	99 250	4,099 3,891	7,334 6,392	3,473 8,245
266 267	San Luis Obispo Santa Barbara	0	0 0	0	0	0	0	7 4	20	8 455	0		0 0	0	409 312,474	314 155,925	271 120,615	140 41,872	685 15,709	41 931	27 604	18,201 41,416	437 16	5,613 43,691	257 39	131 3,990	174 6,205	380 5,514
268 269 270	Santa Barbara Santa Barbara Santa Barbara	0	0 0	0	0	0	59 80	58 563	22 334	8392 1846	0		0 24	0	40,231 58,744 45,294	6,517 46,525 43,573	4,828 40,768 38,500	2,092 18,681	28,615 13,454 6,738	1,317 1,154	1,008 701	106 32,055	119 329	475 29,837 29,961	258 690 234	10,101 3,794 1.469	9,700 6,915	8,813 2,745
270 271 272	Santa Barbara Santa Barbara Ventura	0	0 0	0	0 972	0 376	45 350	8 26 279	0 9 130	606 131 1360	0		0 0	0	45,294 33,092 40,416	43,573 31,603 20,572	18,631 8,689	17,755 9,663 647	3,556 13,838	1,528 1,265 2,487	1,161 751 792	32,018 850 665	119 49 180	2,094 1,742	234 204 463	281 3,515	2,190 1,252 7,099	3,079 2,027 3,224
272 273 274		0	1 0	0	183 1510	137 48	103 327	160 1496	61 428	701 4822	0		1 0	0	40,410 41,520 454,219	25,576 312,048	11,086 200,765	789 40,880	9,454 68,822	1,642 8,052	687 3,337	821 83,760	109 900	2,288	403 245 985	1,702 20,784	4,831 30,970	2,912 16,999
274 275 276	Ventura Ventura	0	0 0	0	205	48 50 74	140 521	80 689	428 51 201	550 2504	0		0 0	0	434,215 65,108 92,266	33,075 17,254	24,090 8,212	6,185 830	13,916 81,581	1,456 8,537	5,357 773 4,351	16,552 10,270	82 146	16,840 5,572	340 503	2,978 18,193	7,807	3,131 18,927
277 278	Ventura	0	0 0	0	80 2757	35	9	23 548	7	147 3274	0		0 0	0	27,555 420,139	26,783 226,875	19,950 127,722	2,177 23,108	5,388 202,217	2,691 29,538	1,019	10,270 197 43,618	7 676	5,003 31,916	73 1,106	571 47,925	2,047	2,769
279		0	0 0	0	1618	169	100	228	160	993	0		1 0	0	449,252	160,832 114,992	57,055 38,682	4,942 3,165	138,779 83,110	21,624 14,630	6,951 4,129	8,948 4,388	39 150	15,190 9.401	362	32,613	73,969	32,197
281 282	Ventura Ventura	0	0 0	0	196 2824	445	37	166 873	24 767	530 3485	1		0 0 0 0	0	500,787 136,873	337,030 38,461	212,834 12,182	41,565 821	24,928 123,564	4,908 23,248	2,196 6,893	95,263 847	384 98	61,139 2,556	535	5,185 31,138	13,486 66,354	6,257 26,072
283 284	Ventura Ventura	0	0 0	0	174	3	989 45	957 33	533 141	3884 186	4		0 0	0	418,345 195,262	204,989 143,908	87,016 73,028	7,949 7,029	75,926 3,036	12,922 1,281	4,575 587	34,882 32,491	1,421 215	34,075 30,372	1,558 171	12,756 556	30,370 1,148	32,800 1,333
285	Ventura	0	0 0	0	2530 489	0 118	353 303	707 483	351 86	2656 3256	2		0 0 0 0	0	321,208 355,591	231,270 206,243	105,677 97,076	9,315 8,534	57,648 57,389	15,814 10,897	2,733 2,492	42,217 39,077	654 133	40,676 38,230	893 336	15,046 14,175	30,553 31,392	11,991 11,880
287 288	Ventura Santa Barbara	0 0	0 0 0 0	0	299 0	52 0	109 10	141 0	144 0	1233 58	4 0		0 0 0 0	0	51,216 11,155	32,932 2,242	24,891 1,305	5,890 234	2,958 4,080	464 486	224 277	27,286 2	396 1	22,216 162	389 12	828 783	1,328 1,791	802 1,506
289 290		0 0	0 0 0 0	0	0	0	0 12	0 10	0 3	0 116	0		0 0 0 1	0 0	7,778 32,714	599 2,519	334 1,309	54 294	5,636 20,424	259 802	119 522	4 8	3 4	37 234	15 54	795 3,370	2,333 10,273	2,508 6,760
291 292		0 0	0 0 0 0	1 0	0 0	0 0	181 6	72 72	21 29	353 402	0 1		0 2 0 0	0 0	146,639 79,990	7,772 8,319	4,106 5,199	880 1,200	19,267 4,405	828 266	578 133	106 11,325	54 5	940 4,279	100 116	4,162 1,317	9,210 2,269	5,896 815
293 294	Santa Barbara	0	0 0	0 0	0	0 0	22 30	0 0	0 0	32 342	0		0 0 0 1	0 0	12,693 44,606	939 43,134	520 38,406	51 17,619	1,281 2,754	52 801	41 347	4 31,286	2 1,534	129 29,519	12 952	350 482	725 705	205 1,570
295 296	Santa Barbara	0	0 0	0	0	0	97 285	1653 35	0 14	330	0		0 6 0 3	1 0	21,409 40,157	10,662 33,049	4,667 20,038	2,098 9,437	13,622 7,893	4,669 1,472	2,099 587	324 975	52 112	575 2,428	300 151	3,719 1,705	5,912 3,291	3,991 2,897
297 298	Santa Barbara	0	0 0	0	0	0	0 37	0 3	0	179	0		0 0	0 0	35,066 67,607	31,805 43,404	19,006 32,384	9,643 14,130	1,042 7,367	288 1,380	114 523	988 15,945	5 16	2,360 16,172	34 70	173 1,400	302 2,991	567 2,976
299 300 201	Santa Barbara	0	0 0	0	0	0	307 3	15 4	5 4		1		0 0	0	21,571 32,895	17,688 20,033 20.000	13,180 14,474	5,975 6,711	5,973 7,102 2,703	1,756 2,103	895 582 204	998 996	12 6 7	2,799 2,788	66 117	1,242 2,102	2,443 2,876	2,288 2,123
301 302	Santa Barbara		0 0	0	0	0	3 20	4	2		0		0 0	0	33,695 49,000	30,999 47,481	18,836 39,690	9,502 20,433	3,702 2,471	945 521	294 332	983 45,470	7 59	2,336 31,198	154 298	926 319	1,851 761	926 1,389
303 304 305	Santa Barbara		0 1 0 0 0	0	0	0	0 0 19	6 5 19	3		0		0 0	0	58,226 43,175 50,869	51,006 42,355 46,291	41,457 37,908 38,762	20,903 17,270 17,499	1,096 759 1,009	298 287 225	170 141 142	28,586 29,251 31,919	63 200 184	27,500 28,727 20,291	95 270 259	216 219 155	252 289 430	628 252 423
305 306 307	Santa Barbara	0	0 0 0 0 0 1	0	0	0	19 25 14	19 0 22	0	70 120 135	0		0 0	0	50,869 49,518 15,610	46,291 44,814 6,993	38,762 35,356 2,217	17,499 17,975 515	1,009 1,916 2,868	235 447 589	142 272 291	31,919 28,706 1,487	184 197 12	30,291 26,576 1,538	259 230 314	155 228 708	430 810 1,646	423 878 513
307 308 309	Santa Barbara	0	0 1 0 0 0	0	0	0	14 67 357	22 71 19	8 14 5	135 377 1707	0		0 0	0	15,610 17,034 23,041	6,993 7,904 8,110	2,217 2,402 3,249	515 494 622	2,868 6,467 7,285	589 1,042 928	291 364 380	1,487 1,687 1,916	12 20 221	1,538 2,110 2,646	314 130 264	2,011 1,355	1,646 3,402 3,606	1,054 2,324
309 310 311	Santa Barbara	0	0 0	0	334 0	52 0	357 697 152	19 198 782	90 294	478 125	0		0 0	0	23,041 20,303 24,700	8,110 5,624 10,078	3,249 1,908 2,890	622 386 568	7,285 12,973 3,114	928 1,391 498	380 658 209	1,916 1,071 2,073	221 813 247	2,646 1,340 2,859	264 682 158	1,355 2,218 847	5,968 1,613	2,324 4,787 651
311 312 313	Santa Barbara		0 0	0	0	0	152 3 2	/82 11 0	294 3 0	125 101 23	0		0 0	0	24,700 2,703 10,428	1,060 7,185	2,890 438 5,662	568 114 1,241	3,114 504 771	498 47 109	209 29 64	2,073 1,022 3,269	247 4 4	2,859 756 4,458	158 26 8	847 118 170	1,613 272 429	114 173
313 314 315	Santa Barbara	0	0 0	0	0	0	2 288 41	95 0	26 0	23 564 420	3		0 0	0	10,428 71,034 53,268	7,185 57,040 33,293	40,916 21,733	20,529 10,014	15,939 2,604	1,944 511	64 918 189	29,436 24,944	4 168 357	4,458 30,250 19,794	8 358 440	3,092 549	429 8,671 898	4,176
315 316 317	Santa Barbara	0	0 0	0	0	0	41 1 197	0	0	420 23 465	0		0 0	0	53,288 13,984 20,124	10,908 10.887	21,733 2,979 3,059	531 543	2,804 208 12,249	43 1,451	189 4 507	2,299 2,273	357	3,458 3,460	440 11 205	56 2,854	77 6,663	1,156 76 2,719
318 319	Santa Barbara	0	0 1 0	0	0	0	632 1472	1332 739	1014 248	5563 1017	5		0 1 0 9	0	59,105 107,378	12,767 56,266	3,487 38,656	650 19,221	32,879 52,012	2,585 5,073	585 1,171	4,040 32,675	1,441 1,439	7,209	2,296 1,198	8,844 8,686	11,475 23,145	12,560 20,129
																					,							

Appendix B-1: Metric Data for All 288 Zones

2015			PG&E	SCE	Multi-Family	Multi-Family	Retail	Office	off. o. 11	Other	PG&E DC	SCE 15%	Existing L1 or L2 Existing DC		Personal Auto Trips P				Personal Auto Parking	Personal Auto Parking With 40+ Miles Left	Heavy Duty Truck			Medium Duty Truck	nome based 1	ionic buscu	Non-Home-
20NE 320	County Santa Barbara	DAC LIC		Substation	Units	Growth	Employees 225	Employees 131		Employees Fleet Operators 900 0	Capacity	Capacity	Chargers Chargers	Personal Auto Trips 0 85,867	20+ Miles 57.187	40+ Miles 40,615	100+ Miles 19,921	Parking Events 21,505	With 20+ Miles Left 1,989	With 40+ Miles Left 605	Trips 28,411	Parking Events	Trips 30.524	Parking Events 482	Work Trips 5.935	Other Trips 11.785	Based Trips 3,785
321	Santa Barbara	0 0	0 0	0	() 0	274	1827		1357 3	,	5	0 0	0 119,740	61,906	38,916	19,039	14,383	1,836	509	24,524	10,044	31,247		3,912	5,466	5,005
322	Santa Barbara	0 0	0 0	0	C	0 0	151	154	54	648 1	()	0 0	0 98,258	60,232	37,240	18,178	14,804	1,595	430	35,152	631	31,307	364	4,071	7,920	2,798
323	San Luis Obispo	0 0	0 0	0	C	0 0	13	11		185 0	()	0 0	0 110,486		38,118	18,230	3,200	320	137	39,243	298	35,764		550	1,520	1,130
324	San Luis Obispo	0 0	0 1	0	74	ŧ 0	73	67		397 0	()	0 0	0 102,790		37,518	17,988	6,269	799	368	23,960		31,211		1,561	3,022	1,686
325	San Luis Obispo	0 0	0 1	0	321) 0 L 555	89	81		240 0	()	0 0	0 9,671		735	242	4,578	324	94	940 627		1,154		1,053	2,495	1,030 4,698
326 327	San Luis Obispo San Luis Obispo	0 0		0	321	L 555	253 100	207		503 0 224 0		7	0 0	0 7,973 0 2,756		1,076 871	287 309	19,415 9,205	2,070 1.817	690 440	627 701	141 28	727		4,524 1.620	10,193 4,566	4,698
328	San Luis Obispo	0 0	0 0	0	1	L 209		39	-	460 1	,	5	0 0	0 22,609		3.030	1.017	13.801	1,817	551	3,297	104	2,500		2,677	7,453	3,671
329	San Luis Obispo	0 0	0 0	0	25	5 0	31	57	10	175 0	()	0 0	0 7,375	2,198	1,003	347	2,952	98	42	666	1,191	1,588	321	567	1,051	1,334
330	San Luis Obispo	0 0	0 1	0	1	L 0	7	7	5	62 0	()	0 0	0 15,665		1,081	392	870	104	49	336	0	896	33	177	431	262
331	San Luis Obispo	0 0	0 0	0	1	L 0	16	17		672 0	()	0 0	0 100,252		27,269	15,539	8,387	685	187	21,651	175	30,604		1,703	3,648	3,036
332	San Luis Obispo	0 (0 0	0	0) 11	4	51	17	258 0	()	0 0	0 9,951		6,707	4,747	3,279	792	374	49,962	2,207	24,098		561	1,453	1,266
333 334	San Luis Obispo San Luis Obispo	0 0	0 0	0	1	L U 7 74	4 22	42	1 18	42 0 140 0		7	0 0	0 428 0 62,287	101 54,501	31 26,098	6 15,073	92 1,293	27 261	8	21,293	49	223 29,639		13 257	45 645	35 390
335	San Luis Obispo	0 0	0 1	0	159			233		823 1		,)	0 1	0 53,673		3,918	1,234	1,293	744	319	2,173		2,909		2,673	5,242	3,595
336	San Luis Obispo	0 0	0 0	0	950		262	752		1012 0	(5	0 0	0 75,827		18,502	9,327	30,556	1,445	662	11,729		16,102		6,814	15,125	8,586
337	San Luis Obispo	0 0	0 0	0	79	9 123	226	348		357 0	()	0 0	0 108,488		35,910	17,467	11,016	720	220	22,366		30,373		2,247	4,957	3,812
338	San Luis Obispo	0 0	D 0	0	C) 0	0	88		67 0	()	0 1	0 18,601	2,511	744	298	3,712	314	127	79	12	721		694	1,904	1,114
339	San Luis Obispo	0 0	0 0	0	3	3 0	116	252		395 1	()	0 0	0 156,656	65,169	35,561	17,859	19,947	1,563	467	23,011	127	31,536		4,528	9,116	6,303
340 341	San Luis Obispo San Luis Obispo	0 0	0 0	0	127	/ 0) 0	134 711	241 311		682 0 635 0	()	0 0	0 103,173 0 113,493	38,484 63,897	19,603 34,956	8,976 17,251	28,128 48,304	2,037 2,735	531 1,015	11,837 22,023	31 549	16,448 30,596		5,457 6,376	12,714 20,819	9,957 21,061
341	San Luis Obispo	0 0	0 0	0	674	1 0	178	435		1686 0	(,)	0 14	1 109,608	57,654	32,334	16,441	39,113	5,329	2,665	22,023	69	30,884	376	4,772	15,880	18,461
343	San Luis Obispo	0 0	0 0	0	146	5 0	29	226		1825 0	(5	0 2	0 126,717	56,896	32,820	16,600	26,432	2,756	892	22,535	65	30,293		4,811	8,828	12,793
344	San Luis Obispo	0 0	0 0	0	66	5 0	385	1119	0	1759 2	()	0 0	0 59,515	6,011	1,607	655	17,265	1,642	300	352	352	2,018	538	5,318	5,266	6,682
345	San Luis Obispo	0 0	0 0	0	77	7 464		1264		1679 1	()	0 13	2 136,016	58,623	33,052	16,866	57,619	5,313	924	21,505		30,821		7,779	19,302	30,538
346 347	San Luis Obispo	0 0	0 0	0	671 182		93	123		408 0	()	0 0	0 37,012		1,629	555	26,332 19,799	1,439 2,067	379 733	243		1,153		5,714	12,745	7,873
347 348	San Luis Obispo San Luis Obispo			0	182	2 423	302	139 22		1742 0 211 0	l l	7	0 0	0 28,765 0 6,983	10,097	7,853 6.606	4,890 4,714	19,799	2,067	/33	51,189 51.878		24,385 23.877		4,138 102	9,662 180	5,999 62
349	San Luis Obispo	0 0	D 1	0	107		19	40		209 0)	0 0	0 13.486	13,081	12,771	10,600	1,673	470	324	19,235	79	13,091		313	853	507
350	San Luis Obispo	0 0	0 0	0) 0	3	45	0	381 0	()	0 0	0 9,922	8,205	7,541	5,011	1,361	197	82	53,577	410	25,830		279	578	502
351	San Luis Obispo	0 0	0 0	0	97	7 0	47	124	10	746 1	()	0 17	0 16,122	10,931	3,676	1,451	11,696	3,013	1,524	309	86	2,108	730	1,041	3,357	7,298
352	San Luis Obispo	0 0	D 0	0	C	123	45	19		379 0	()	0 0	0 28,681	26,817	25,641	20,736	2,818	460	279	48,307	233	27,593		597	1,409	812
353	San Luis Obispo	0 0	0 0	0	9	9 0	14	40	5	289 0	()	0 6	0 8,233		2,659	1,103	7,665	1,789 417	564	43	6	803	118	767 462	3,549	3,350
354 355	San Luis Obispo San Luis Obispo			0	1	L U 7 19	65	4 145	0	89 0 254 0	l l	7	0 1	0 22,272 0 8,909		6,526 3,421	2,806 1,051	3,205 5,194	417	102 188	545 174	13	2,479 1.328		462 914	1,228 2,317	1,516 1,963
356	San Luis Obispo	0 0	0 0	0	97) 0	0	2490		324 0	()	0 0	0 23,396		5,100	1,031	3,466	814	134	553	24	1,863		1,061	880	1,505
357	San Luis Obispo	0 0	0 0	0	1	L 0	0	40		51 0	()	0 0	0 49,821		7,025	2,591	1,313	77	11	1,031	4	3,235		252	657	404
358	San Luis Obispo	0 0	0 1	0	660	0 0	439	704	0	1464 1	()	0 2	0 15,772		4,101	1,372	26,389	3,987	1,087	322	340	1,660	395	4,117	10,292	12,007
359	San Luis Obispo	0 0	D 0	0	60	227	5	9	0	118 0	()	0 0	0 32,032		5,542	1,954	1,885	187	34	563	3	2,148		217	667	1,001
360	San Luis Obispo	0 0	0 0	0	0	312	8	109	-	82 1 164 0	()	0 0	0 17,848		1,107	357	2,830	182	43	170	3	1,009		642	1,443	744
361 362	San Luis Obispo San Luis Obispo	0 1	1 0	0	40	5 312	24	95 58		164 0	l l	7	0 0	0 3,920 0 10,428	725 2,263	196 563	59 177	6,017 4,348	502 487	169 157	14	2	248		1,336 874	3,406 2,509	1,276 970
363	San Luis Obispo	0 0	0 0	0	14	i 119	331	190		1158 2)	0 6	0 26.247	19.764	18.137	13.675	12,485	2.348	1.217	56.092	1,229	29.114		2.272	5.094	5,119
364	San Luis Obispo	0 0	0 0	0	5	3 0	29	16		220 0	(5	0 14	0 97,178		35,178	23,420	8,483	1,136	339	61,462	26	44,062		1,306	3,427	3,749
365	San Luis Obispo	0 0	0 0	0	222	2 730	237	167	0	1127 0	()	0 4	0 52,024	30,330	16,752	10,405	18,003	2,684	756	11,829	352	16,679	548	3,601	7,831	6,571
366	San Luis Obispo	0 0	0 0	0	265	5 240	99	369		1510 0	()	0 4	0 71,996		25,847	16,199	11,106	1,173	299	21,695		27,844		2,199	4,442	4,465
367 368	San Luis Obispo	0 0	0 0	0	0	0	24	68 20		424 0	()	0 0	0 81,848 0 11,174	43,052 7,766	27,255	17,515 4,771	4,952 6,047	1,167 954	572 491	22,692 52,022		28,814 24,573		891 1,040	1,535 3,144	2,526 1,862
368	San Luis Obispo San Luis Obispo	0 0	0 0	0	(0	1	20		216 0 181 0	(,	0 0	0 11,1/4	1.800	6,950 568	4,771 192	4,051	954	491	52,022	163	24,573		1,040	3,144 2,123	1,862
370	San Luis Obispo	0 0	0 0	0	40) 8	0	6	0	78 0	()	0 0	0 61,957	53,903	25,960	15,118	3,628	485	148	21,253		29,272		853	1,988	787
371	San Luis Obispo	0 0	0 1	0	335	5 0	36	356	0	682 1	()	0 0	0 18,494		2,293	1,239	7,567	1,130	266	974	84	1,374		1,975	3,481	2,111
372	San Luis Obispo	0 0	0 1	0	15	5 0	0	24		103 0	()	0 0	0 6,518	3,383	1,017	528	5,753	688	168	321	16	638		1,197	3,222	1,335
373	San Luis Obispo	0 0	0 0	0	C) 0	3	25		61 0	()	0 0	0 36,085	25,440	13,893	8,696	5,862	810	227	11,453		15,307		1,014	3,048	1,794
374	San Luis Obispo	0 0	0 0	0		0	66	15		112 0	()	0 0	0 66,242		25,834	16,097	2,898	348	43	21,805	10	28,165		661	852	1,385
375 376	San Luis Obispo San Luis Obispo	0 0	0 0	0	502 384		321 246	761 258		1046 0 391 2	0	,	0 0	8 72,765 0 72,366		26,050 25,400	15,790 15,197	17,992 8,198	2,396 569	577 251	21,611 21,576	343 120	28,726 29,145		3,760 1,394	8,240 3,501	6,009 3,296
377	San Luis Obispo	0 0	D 0	0		0	4	16		18 0)	0 0	0 4,249		327	85	1,133	137	251	67	120	627		249	678	207
401	San Luis Obispo	0 1	1 0	0	6247	7 2012	0	150		1652 0	()	0 4	0 37,257		5,961	2,161	10,193	608	275	632	13	2,140		3,231	3,466	3,496
402	San Luis Obispo	0 1	1 0	0	1592		24	39	0	1166 0	()	0 0	0 49,134	11,792	4,520	1,867	10,050	936	228	358	4	1,471		3,246	4,000	2,804
403	Santa Barbara	0 1	1 1	0	1260		10	0	0	50 1	()	0 0	0 11,910		214	71	2,263	64	13	3,565	5	1,716		575	1,281	407
404	Santa Barbara	0 1	1 0	0	4421	L 190	482	58		148 0	()	0 4	0 11,754		1,293	470	24,264	1,952	1,648	9	55	213		6,624 994	12,496	5,144
405 406	Santa Barbara Santa Barbara	0 1	1 0	1	1211 1259		49	22	6	120 0 92 0	(,	0 4	0 116,974 0 107,388	9,241 9,880	5,732 6,121	1,287 1,289	3,961 6,269	173 385	99 187	448 344	8	931 685		994 1,975	2,107 3,210	860 1,085
406	Santa Barbara	0 1	1 0	1	1255		14	3	2	92 0 81 0	()	1 0	0 107,388	4,984	3,094	1,289	7,517	1,366	785	524	31	781		1,030	3,210	3,360
408	Ventura	1 1	1 0	0	1072			1509	529	7647 3)	0 2	0 242,315	143,208	101,288	23,262	47,450	6,958	3,126	55,368	3,333	34,601		11,388	18,885	17,177
409	Ventura	0 0	0 0	0	1235			233		2169 0	()	0 14	0 201,249	137,856	69,632	6,842	49,078	10,593	2,757	32,439		30,031		14,772	22,919	11,435
410	Ventura	0 0	0 0	1	1450) 37	662	1427	0	4228 0	()	1 0	0 653,299	376,954	228,001	41,811	77,061	15,098	4,010	90,073	521	60,423	422	23,735	27,819	25,507

Appendix B-2: Indexed Scale for Each Metric for All 288 Zones

ounty DA		PG&E Substation S		Units	Multi-Fami Growth		yees Office Employ	yees Office Grow	vth Other Empl	oyees Fleet Operators	PG&E DC Capacity	SCE 15% Capacity		Chargers				Trips 100+ Miles	Personal Auto Parking Events	20+ Miles Left	40+ Miles Left	Trips	Parking Events	Trips	Parking Events	Work Trips	Other Trips
	0 1 0 1	0	0 0		3 4	3 5	2 5	3 5	2 4	3 1 4 1		0 0 1 0	ı 5	1	2	2 3	3	3 4 4 5		2 4 5 5	4 4 5 5	1 5	5 5 5 5	i 4	5	i 2	2
uis Obispo	0 0	1	0		2	1	4	3	3	3 1		1 0	1	. 1	. 3	3	3	3 3	4	4 3	3	3	5 4	4	1 3	4	l.
	0 1	1	0		3 4	1 4	1	1	1	3 1	•	0 C 1 C	1	. 1	. 2	2	4	3 4	1	3	2	L .	2 1	. 1	. 2	2	_
	0 1	0	0		2	4	3	3	3	2 1		0 0	1	. 1	. 1	1 2	2	2 2		3 3	3	2	2 4	2	2	2	
uis Obispo	0 0	0	0		2	3	4	4	2	3 1		1 0	. 2	! 1	. 1	1 2	2	2 2	! 3	3 4	4 3	3	1 2	. 1	. 2	: 3	3
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is Obispo is Obispo	0 1	0	0		4	1	1	3	2	4 1	•	0 0	4	1	. 4	4	4	4 4		3	2	2	3 4	4	3	3	3
is Obispo	0 1	0	0		4	1	5	5	5	4 1		1 0	1		4	1 4	4	4 4		5	5	1	3 3	. 4	· 2	. 4	5
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iis Obispo iis Obispo	0 1	0	0		3	1	2	2	2	2 1	•	1 U 0 C	1 1	. 1	. 1	1	1	1 1		1 1	1 2		2 1 1 4	. 2	1	. 1)
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Barbara	0 1	1	0		5	5	5	5	5	5 2		0 0	2	! 1	. 1	1 :	1	2 2	4	4 4	4 4	1	3 5	2	5	4	ļ
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Barbara	0 0	0	1		1	1	1	1	1	1 1		0 C	1 1	. 1	. 2	2 1	3	4 4	l 1	1 2	2	2	4 5	. 4	i 4	1	
a Barbara	0 0	0	1		1	1	1	1	1	2 1		0 C	1 1	. 1	. 2	2 3	3	4 4	1 1	1 1	1 2	2	4 3	: 4	2	! 1	
a Barbara Barbara	0 1	0	0		1	1	1	1	1	1 1		0 0	1	1	2	2 3	5	3 3	1	1 1	1		2 1	2	1	1	
a Barbara a Barbara	0 1	0	0		1	1	1	1	1	1 1		1 0	1	1	1	1	1	1 1		1	1		3 5	3	5	1	
Barbara	0 0	0	1		1	1	2	1	1	1 1		0 0	1	. 1	. 1	1	1	1 1	. 1	1 1	1 .	L	1 2	1	. 2	1	
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Barbara	0 0	0	1		4	3	4	3	3	4 2		0 1	. 1	. 1	4	4 4	4	4 5		3 2	2	3	4 4	5	- i 4	3	3
a Barbara	0 0	0	1		3	2	5	2	2	4 1		0 1	. 1	. 1	. 3	3 3	3	3 4	L 5	5 4	4 5	5	3 4	3	5	5	;
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a Barbara a Barbara	0 1	0	1		1	1	2	4	4	2 1		0 0	1 2	. 1	. 4	4 <u>3</u>	3	3 4		3	2	3	3 4	. 3	5 3 1 1	; 3	5
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a Barbara	0 0	0	1		3	1	4	4	4	5 1		0 1	. 1	. 1	. 5	5 4	4	4 4	<u>ا</u>	5 4	4 4	1 :	3 3	: 3	3	; 5	5
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a Barbara	0 0	0	1		1	1	5	3	3	3 1		0 C) 1	. 1	. 3	3 :	1	2 2	: :	5 4	4 4	1 :	1 3	: 1	. 3	5	5
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a Barbara	0 1	0	0		4	3	4	2	2	2 1		0 C	1 1	. 1	5	5	5	5 5		3 1	1 2	2	5 1	. 5	1	. 3	3
a Barbara	0 1	0	1		2	1	3	3	3	3 1		0 1	. 1	. 1		5 !	5	5 5	5 3	3 2	2 2	2	5 1	. 5	; 1	. 3	3
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i Barbara i Barbara	0 1	0	1		4	2	5	5	5	5 1		0 1	. 5	i 1	. 4	4 1	2	3 2	2	5	5	5	1 2	. 1	. 3	5	
a Barbara	0 1	0	1		3	3	5	2	2	3 1		0 0	. 1	. 1	4	4 4	4	4 4		4 4	4	5	3 2	. 3	2	. 3	3
Barbara	0 1	0	1		1	1	3	4	4	4 2	1	0 C	1 4	i 1		5 !	5	5 5	5 4	4 4	4 4	1	5 4	5	; 3	3	3
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	0 0	0	1		1	1	3	1	1	2 1		0 0	1	. 1		3	2	2 2	2 4	4	3	1	1 1	1	1	. 4	1
Barbara	0 0	0	1		1	1	1	1	1	1 1		0 1	. 1	. 1	. 5	5 !	5	5 5	; 2	2 2	2 2	2	5 2	5	; 1	. 2	
	0 0	0	0		1	1	3	1	1	2 1		0 1	1	. 1	5	5	5	5 5	5	3	3	3	5 4	5	2	3	3
	0 0	0	1		1	1	1	1	1	1 1		0 C 0 1	1	. 1	4	+ <u>+</u>	5	5		3	5 4 2 -	÷	2	5	1	. 3	5
	0 1	0	1		2	1	4	2	3	5 2		0 0	1	. 1		5	5	5 5	5	4	3	3	5 3	2	5 4	3	1
	0 0	0	0		3	2	4	1	1	2 1		0 1	. 1	. 1	. 4	4 5	5	5 5	5 2	2 3	3 4	1	5 5	; 5	; 4	2	
Barbara	0 1	0	1		2	1	5	3	4	4 1		0 1	. 4	1	. 4	4 !	5	5 5	; 3	3 4	4 5	5 !	5 4	5	i 4	4 3	3
	0 0	0	0		1	1	4	1	1	2 1		0 0	1	. 1	. 1	1 :	1	1 1	1 2	2 1	-	2	1 2	1	1	. 2	
	0 0	0	1		1	1	2	1 3	1	3 1		0 1	. 1	. 1	. 4	4 4 1 1	4	4 4 5 /	1 2	2 2	-	3	4 4	. 3	3	2	
	0 0	0	1			1	1	1	1	1 1		0 C	1	. 1		1	1	1 1		1 1			1 1	. 1	. 1	. 1	
	0 0		1		1	1	4	2	2	3 1		o c	4	. 1	4	4 !	5	5 5	i 1	1 2	2	2	5 4	5	5 3	2	
tura	0 1	0	0		4	1	2	3	5	3 1		о с	1	. 1	. 2	2 2	2	1 1	1 2	2 3		L	1 1	. 1	. 1	. 2	
	0 0		1		5	5	5	5	5	5 1		o c	4	1	5	5	5	5 3	5	5 5		5	5 5	5	5	5	
	0 1 0 0	0	0		3	4	3	4 4	4 4	4 1 3 1		0 C 0 C	1	2	5	2	2	1 1		4 4 4 5		1	4	5	4	4	
	0 1	0	1		4	5	5	4	4	5 1		0 C	1	. 1	. 4	4 3	3	3 2	2	* - 5 5		1	2 4	2	2 4	5	;
itura	0 1	0	0		1	1	1	3	1	1 1		0 C	1	. 1	. 2	2 2	2	1 1	1 2	2 2	2 2	2	1 1	. 1	1	. 2	
	0 0		1		5	5	5	5	4	5 3		o c	4	1	5	5 !	5	5 3	3	5 5	5	5	4 5	5	5	5	5
	0 1	0	0		4	2	3	4 4	4 4	5 1		0 C 0 C	1	1	4	4 3	3	3 3	4	4 4	4 4		4 4	3	3	4	
	0 1 0 0		1		3	1	3	4	4	4 1 3 1		0 C	1	1		2	2	2 1		5 4	5	5	2 5	3	5	4	
	0 0		1		2	5	3	3	3	2 1		0 C	1	. 1	. 2	2	2	2 1		3	5	1	2 2	2	! 1	. 3	3
ntura	0 0	0	1		5	4	3	3	3	4 1		o c	5	. 1	2	2 2	2	1 1		5 5	5 5	5	1 2		2	5	;
itura	0 0	0	1			2	5	5	1	5 1		0 1	. 1	. 1	. 5	5 !	5	5 5	5 5	5 5	5 5	5	5 2		; 3	5	5
	0 0		1		5	3	5	5	5	5 1		0 1	. 5	2	5	5 !	5	5 5	5	5 5	5	5	5 4		5	5	
	0 0 0 1		1		4	3	5	4	4 4	4 1 4		0 1	2	1		5	5	5 5		5	5	1	53 53		3	5	
	0 1	0	0			3	2	4	4	3 1		0 1	2	. 1		5	5	5 5		5	5	1	5 3		3	5	
	0 1	0	1			3	5	5	5	5 1		0 1	. 5	2		5	5	5 5	5	5	5	5	5 4		5 5	5	
	0 1	0	0		2	1	2	2	1	1 1		0 1	. 1	. 1	. 4	4 4	4	4 3	3	3 3	3	2	3 2	. 3	1	. 3	3
	0 0 0 0		1		3	2	4	4	4	5 1		0 1 0 0	. 1	. 1	5		5	4 3	5	5			3 3	3	4	5	
tura			1		-	4	1	2	2	5 1			1														

Appendix B-2: Indexed Scale for Each Metric for All 288 Zones

County	DAC LIC	PG&E Substation	SCE Substation				Retail Employee	es Office Employ	yees Office	e Growth Oth	ner Employee:	5 Fleet Operator	PG&E D Capacit							Personal Auto Trips 100+ Miles		Personal Auto Parking Wi 20+ Miles Left	h Personal Auto Parking Wit 40+ Miles Left	th Heavy Duty Truck Trips	Heavy Duty Truck Parking Events	Medium Duty Truck Trips	Medium Duty Truck Parking Events		
Ventura Ventura Ventura	0 1 0 0 0 1	0 0	0)	5 3 3	4 4 1	•	3 3 3	4 4 3	4 4 1	5	5	1 3 1	0 0 0	0 0 0	3 1 1	1 1 1	5 3 5	5 3 5	5 5 3 3 5 5	5 3 5	4 4 3	4 5 2	4 5 2	5 3 4 5	3 <u>5</u> 5	5	4 4 5 5 2 3	4 4 3
Ventura Ventura	0 1 0 0	1 0 0 0			5 1	5		5	5	5	-	5	1 3	0	1 0	1	1	5	- 5 5	5 5	- 5 5	5 4	- 5 4	5	5 5	5 5	5	5 5 5 3	5 4
Ventura Ventura	0 0 0 0	0 0 0 0	0 0		5 3	5 3	1	5 5	5 4	3 4	5	5	1 1	0 0	1 1	1 2	1 2	5	5 5	5 5 5 5	5 5	5 5	5	5 5	5 4 5 5	4 <u>5</u>	5 4 4 <u>1</u>	4 5 5 4	5 5
Ventura Ventura Ventura	0 0		1		3	2		1 4 2	2 4	2 4	3	3 3	1	0	0	5	1	1	1 4	1 4	1 3	1	2 1	2	1 3	1 1 4 3	1 : 3 :	1 2 3 1	1
Ventura Ventura	0 1	1 0 1 0	0		2	2		2	5 3	4	3	3	1	0	0	1 2	1	2	3	3 3	3	2	3	2	1 3	3 i 5 i	* 3 : 3 :	+ 3 2 3 5 3	2
Ventura Ventura	1 1 0 1	1 0 1 0	0		1	1		3	5	5	-	5	2	0	0	1	1	5	- 5 3	5 5	- 5 3	2 4	3	3	5 5	5 5	5	 5 3 4 4	1 4
Ventura Ventura	1 1 0 0	1 0 0 0	1 1		4 4	5 4	i i	5 5	5 4	5 5	5	5	4 1	0 0	0 0	1 1	1 1	3 5	2 5	2 2 5 5	2 5	4 5	3 4	3 5	3 5 4 5	5 2 5 4	2 ! 4 !	5 4 5 5	3 5
Ventura Ventura	0 1	1 0 1 0	0		3	2	1	5	3	4	4	1	3	0	0	3	1	5	5	5 5	5	4 3	4 2	4 2	5 5	5 5	5 4	4 3 4 3	4
Ventura Ventura Ventura	0 1	0 0 1 0	1		5	1		5	2 5 2	4	-	5	1 1	0	1	1	1	2	2	2	1	2 5	4	4	2 5	5 2	1 2 2	1 2 4 5 2 4	5
Ventura Ventura	0 1	1 0 0 0	0) L	4	3		3	2	2	4	• 1 5	1	0	1	1	1	3	2	2 2	2	4 5		3 5	2 4	4 2	2	3 3	4
Ventura Ventura	1 0 0 1	0 0 1 0	0 0)	3 3	5 2		2 2	4 2	5 1	4	1 2	1 1	0 0	1 1	1 1	1 1	4 3	3 2	3 2	2	3 2	3 1	3 2	3 4 2 3	4 3 3 2	3 2	3 3 2 2	3 2
Ventura Ventura	0 1 0 1	1 0 1 0	1 1		5 5	5		4 5	5 4	5 4	5	5	1 1	0 0	0 1	1 1	1 2	3 5	2 5	2 2 5 5	2 5	4 5	4 5	3 5	3 4 5	3 2 5 4	2 1 4 1	3 4 5 5	4 5
Ventura Ventura	0 0	0 0	0)	5	4		4 5	5 5	5	-	5	2	0	1	4	5	5	5 5	5 5	5	5	5 5	5	5 5	5 5	5	5 5 5 5	5 5
Ventura Ventura Ventura	0 1		1		4 5 2	4 5 2		5	5	4	-	5	5 1 1	0	1	5	2	5	5	5 5	5	5	5	5	5	5 5	5	5 5 5 5 7 9	5
Ventura Ventura	0 0 1	0 0	0) L	5	4		4	5 1	4	4	1 3	1	0	1 0	3	1	5	5	5 5	5	5	5	5	5 4	4 5 1 3	5	5 5	5
Ventura Ventura	0 1 0 1	1 0 1 0	1 0	L)	4 2	2	1	2 2	2 2	2 3	2	2 3	1 1	0 0	0 0	1 1	1 1	3 3	3	3 3 3 2	3 2	2 1	2 1	2 1	4 3 2 4	3 3 4 2	3 ! 2 4	5 2 4 1	2 1
Ventura Ventura	0 1 0 1	1 0 1 0	0 1) L	4 5	3 5		3 4	4 4	5 5	5	5	2 1	0 0	0 0	1 1	1 1	3 2	4 3	4 3 3	3 3	2 3	4 3	4 3	4 4	5 4 4 3	4 ! 3 !	5 2 5 3	3 3
/entura /entura	0 1	1 0 1 0	0)	5	4	ł	3	3 4	5	4	5	1	0	1	1	1	2	3	3 3	3	3	3	3	4	4 3 5 4	3 4 4 <u>1</u>	4 3 5 3	3
'entura 'entura 'entura	0 1	1 0	0		1	2		1	1	1	1	L L 1	1	0	0	1	1	1	3 1 1	1 1	5 1 1	1	1	2	1	2 1 2 1		1 1 3 1 3 4	1
Ventura Ventura	0 1 1	1 0 1 0	0)	4	4	•	3	2	4	3	3 5	1	0	0	1	1	2	- 3 5	4 3	- 3 5	2	- 4 5	4	4 5	5 4	4 <u>1</u> 5 <u>1</u>	5 2 5 4	2
Ventura Ventura	0 1 0 1	1 0 1 0	0 0)	5 1	5 2		4 1	5 2	3 3	5	5	1 1	0 0	1 1	3 1	1 1	2	1 5	1 1 5 5	1 5	4 1	4 2	4 2	2 : 5 :	1 2 5 5	2 : 5 :	3 4 3 1	4 1
/entura /entura	0 1 0 0	1 0 0 0	0 0)	4 3	4 3	1	3 3	3 4	2 2	4	1 1	1 1	0 0	1 0	3 5	1 1	2	3 3	3 2 3 2	2 2	4 4	4 5	4 5	2 2	2 2 3 2	2 2	2 4 4 4	4 4
uis Obispo uis Obispo	0 0		0)	1	1		1	2	2	1	L	1	1	0	1	1	2	3	3 4	4	1	1	2	5 <u>1</u>	5 3	3 1	5 1 1 1	1
uis Obispo uis Obispo uis Obispo	0 1	1 0	0		1 2	4		4 3 1	5	1	-	3	2	1	0	3 4 1	1	4	4 4 1	3 3 4 4 1 1	5 4 1	4 3 2	4 2 1	4 1 1	3 1	2 2 2 4 1 1	5 4 1	2 3 2 3 1 7	4 2 2
Luis Obispo Luis Obispo	0 0	0 1	0)	4	1		4	4 5	1 4	3	- 3 1	2	0	0	1 2	1	3	1	1 1	1	3	2 3	1 1	1 1	2 1 3 1	1		3
Luis Obispo Ita Barbara	0 0 0 0	0 0 0 0	0 1) L	1 1	1		1	1 1	2 1	1	L 2	1 1	0 0	0 0	1 1	1 1	1 5	1 5	1 1 5 5	1 5	1 3	1 2	1 3	3 4 5 2	4 3 2 5	3 S	3 1 1 3	1 3
ta Barbara Ita Barbara	0 0	000	0)	1	1		2 2	2	2 5	4	5	1	0	0	5	1	2	1 4	2 3	3	4 3	3	4 3	1 3	3 1 4 4	1 3 4 4	3 5 4 3	4 3
ta Barbara ta Barbara Ventura	0 0		0		1	1		1 2	1 2 4	1 2 4	1	3 L 1	1 1	0	0	1	1	2	4 3 2	4 4 3 3	4 3 2	2 1 2	3	4 3 4	4 2 2 2	3 4 2 2	4 i 2 i	3 2 2 1 4 3	2
/entura /entura	0 1	1 0 0 0	0)	2	3		3	3	3	3	3	1	0	1	1	1	2	3	3 2	2	2		3	2	3 2	2	- 3 3 2 5 5	3
/entura /entura	0 0	0 0	0)	2	2	1	3	2	3 4	3	5	1	0	0	1	1	3	2 2	3 3	2 2	3	- 3 5	4	3 3	3 3	3	 3 3 4 5	3
entura entura	0 0 0 0	0 0 0 0	0 0)	1 5	2 4	:	1 4	1 4	1 4	1	L 5	1 1	0 0	0 1	1 1	1 1	2 5	3 5	3 3 5 5	3 5	2 5	4 5	4 5	1 : 5 :	1 3 5 4	3 : 4 :	1 1 5 5	2 5
'entura 'entura	0 0	000	0)	5	4	 	3	3	4	3	3	1	0	1	1	1	5	5 5	4 4	3	5	5	5	3 3	2 3	3 : 3 :	3 5 4 5	5 5
'entura 'entura 'entura	0 0		0		2 5 2	5	• •	2 4 5	3 5 5	2 5 5	-	5	1 1	0	0	1	1	5	3	3	2	4 5 5	5	5	2 3	4 <u>5</u>	5 2 5	4 4 4 5 5 5	4 5 5
/entura /entura	0 0	0 0	0		1	1		2	2	4	2	2	1	0	0	1	1	4	5	5	3	1	3	3	4 4	4 4 5 4	4 2 5 4	2 1	1
/entura /entura	0 0 0 0	0 0 0 0	0 0)	3 3	3 2	1	4 3	4 3	3 4	5	5	1 4	0 0	0 0	1 1	1 1	5 3	5 3	5 3 3	3 3	5 1	5 1	5 2	4 4	3 <u>5</u> 4 3	5 : 3 :	3 5 4 2	5 1
a Barbara a Barbara	0 0	0 0 0 0	0 0)	1 1	1		1	1 1	1 1	1	L L	1 1	0 0	0 0	1 1	1 1	1	1 1	1 : 1 :	1 1	2 2	2 1	2 1	1 : 1 :	1 1 1 1	1 : 1 :	1 1 1 2	2 2
a Barbara a Barbara	0 0	0 0 0 0 0 0	0		1	1	-	1	2	1 2 2	1	L 2	1	0	0	1	1	2	1 2	1 2	1 2	4 3 2	2	3	1 1	1 1	1 : 2 :	1 3 2 4	4
ta Barbara ta Barbara ta Barbara	0 0		0		1	1	-	1	1	1	1	2 L 2	1	0	0	1	1	3 1 2	2 1 3	1 1	2 1 4	1	1 1 2	1 2	1 2	1 : 1 : 5 4	5 1 : 4	2 2 1 1 5 1	1
ta Barbara ta Barbara	0 0	0 0	0)	1	1	-	3	5	1 2	4	- 1 2	1	0	0	4	1	1	2 3	2 3	3	3	- 5 3	5	1 2	2 : 3 :	1 3	- 3 3 2 2	3 2
ta Barbara ta Barbara	0 0 0 0	0 1	0)	1 1	1		1 2	1 1	1 1	1	L 2	1 1	0 0	0 0	1 1	1 1	2 3	3 3	3 3 4 4	3 4	1 2	1 3	1 3	2 : 3 :	1 2 2 3	2 :	1 1 1 2	1 2
a Barbara a Barbara	0 0	0 1	0)	1	1	-	4	1	1	3	3	1	0	0	1	1	1	3	3 3	3	2 2	3	4 3	2 2		2	1 2 2 3	2
ta Barbara ta Barbara ta Barbara	0 0 0 0 0	0 0	0		1	1		1	1	1	1	2	1	0	0	1	1	3	3 4 4	4 4	3 4 4	1	2 2	2 2 2	5 2	2 4	2	2 2 3 1 1 1	1
a Barbara a Barbara	0 0	0 0	0	,))	1	1		1	1	1	1		1	0	0	1	1	2	 3 4	4 4	4 4	1	1	1	4 4	4 4 3 4	4 1	3 1 3 1	1 1
ta Barbara ta Barbara	0 0	0 0)	1	1		2	1 1	1	: 1 1	L L	1 1	0 0	0 0	1	1	3	4 2	4 4	4	1 1	1 2	2 2	4 2	4 4	4 2	3 1 3 1	1 2
a Barbara a Barbara	0 0	0 0	0)	1 1	1		2 4	2 1	2 1	2	2	1 1	0 0	0 0	1 1	1 1	1	2 2	1 2	1 2	2 2	3 2	2 3	2 2	2 2	2	2 2 3 2	2 2
ta Barbara ta Barbara	0 0	0 0	0)	3 1	2 1		5	3 5	3 5	3	3	1	0 0	0	1	1 1	1	1 2	1 2	1 2	3 1	3 2	3 2	2	5 2	2 2	4 3 2 2	3 2
ta Barbara ta Barbara ta Barbara	0 0	0 0	0		1	1	-	1	1	1	1	L L	1	0	0	1	1	1	1 2	1 2	1 2	1	1	1	3	1 1	3	1 1 1 1	1
ta Barbara ta Barbara ta Barbara	000	0 0	0		1	1		4 2 1	1	3 1 1	3	2	3	0	0	2	1	3	* 3 2	4 4 3 3 2	4 3 1	1	4 2 1	4 2 1	4 4	4 3	3 4	4 1 1 1	4 1 1
ita Barbara ita Barbara ita Barbara	0 0	0 0	0		1 1	1		3	2	2	2	2	1	0	0	1	1	1	2	2	1 2	3 4	3 4	3 3	2 3	1 5	3	2 3 5 5	3 4
ta Barbara	0 0)	1	1		5	4	5	3	3	1	0	0	5	1	4	4	4	4	5	5	4	4	5 5	5 !	5 5	5

Appendix B-2: Indexed Scale for Each Metric for All 288 Zones

ZONE County		PG&E C Substation	SUBSTATION				es Office Employ	ees Office Grow	vth Other Employees	Fleet Operators	PG&E DC	SCF 15% Canacity						Personal Auto Trips 100+ Miles		Personal Auto Parking Wi 20+ Miles Left	th Personal Auto Parking Wi 40+ Miles Left	th Heavy Duty Truck Trips	Heavy Duty Truck Parking Events	Medium Duty Truck Trips	Medium Duty Truck Parking Events			
320 Santa Barba	ira O	0 0) ()	1	1	3	3	3 3	1	L	0 0	1			3	4	4	1		4	3	4	2 4		4 4	. 4	4 3
321 Santa Barba 322 Santa Barba		0 0			1	1	4 3	5 3	5 4 3 3	3		0 0) 1) 1	L 1		4 4		4 4		3	3	3	4	5 4		5 3 3 4		3 3
323 San Luis Obi		0 0) (0	1	1	1	1	1 2	1	L	0 0	1	L 1	. 4	4	4	4 4	1	1	1	1	4 .	4 5	1	3 :	. 1	1 1
324 San Luis Obi 325 San Luis Obi		0 1)	1	1	2	2	1 2	1		0 0	1	L 1		4 1	4	1 1	ł	2	1	1	2	s 4 2 2	. 4	4 1		2 1
326 San Luis Obi	spo O	0 0) ()	3	5	4	3	5 3	1	L	o c) 1	L 1	. :	1	1	1 :	L	4	4	3	2	3 1	. 5	5 4	. 4	4 3
327 San Luis Obi 328 San Luis Obi		0 0) ()	1	1 4	3	1 2	1 2 2 2	1		0 0) 1			1	1	1 2	2	2	3	3	3	2 2 2 3 2	2	2 1 4 3		3 2
329 San Luis Obi	spo 0	0 0) (b	1	1	2	2	2 2	1	L	0 0) 1	L 1	. :	1	1	1 :	L	1	1	1	2	5 2	: 3	3 :	. 1	1 2
330 San Luis Obi 331 San Luis Obi		0 1	L ()	1	1	1	1	1 1	1		0 0) 1	L 1		1	1	1 .	L 1	1	1 2	1	1	1 1 3 4	. 1	4 2	. 1	1 1
332 San Luis Obi	spo 0	0 0) (5	1	1	1	2	2 2	1		0 0	1	i i	. :	1	2	2	3	1	2	2	5	5 3		5 2	. 1	1 2
333 San Luis Obi 334 San Luis Obi		0 0)	1	1	1	1	1 1	1	L	0 0	1	1 1		1	1	1	L 1	1	1	1	1		. 1	1 1	. 1	1 1
335 San Luis Obi	spo 0	0 1	Ĺ	,)	2	4	2	3	1 3	1	L	0 0	, <u> </u>			3	2	2	2	3	2	2	2	2 2		2 3		3 3
336 San Luis Obi 337 San Luis Obi		0 0)	4	1	4	5	1 3	1	L	0 0	1	1 1		3	3	3	3	4	3	3	3	3 3	4	4 4	4	4 4
338 San Luis Obi		0 0) (,)	1	1	1	2	1 1	1	L	0 0	. 1			1	1	1	L	2	1	1	1	1 1	. 2	2 1		2 1
339 San Luis Obi		0 0) ()	1	1	3	4	2 2	1		0 0	1	1		4	4	4	1	4	3	3	4	3 4	4	4 4		4 4
340 San Luis Obi 341 San Luis Obi		0 0		,)	1	1	5	4	3 3	1	L	0 0		3		4	4	4	1	5	4	4	3	5 4		4 4	4	5 5
342 San Luis Obi		0 0) (0	4	1	3	4	3 4	1		0 0	-	5 1		4	4	4	1	4	5	5	4	3 4	. 4	4 4	4	4 5
343 San Luis Obi 344 San Luis Obi		0 0) ()	1	1	4	3	3 4 1 4	1	2	0 0) 1) 1	L 1		4 3	4	1 1	1 2	3	3	2	2	4 4 2		3 4 4 4		4 3 4
345 San Luis Obi		0 0) (0	1	5	5	5	4 4	1	L	0 0	5	5 1		4	4	4 .	1	5	5	4	3	5 4	<u>-</u>	5 4	5	5 5
346 San Luis Obi 347 San Luis Obi		0 0) ()	4	1 5	2	3	1 2 1 4	1		0 0) 1) 1	L 1		2	2	2	L 3	4	3	3	5	3 2 5 3	. 1	4 4	. 4	4 3
348 San Luis Obi	spo 0	0 0) (þ	1	2	1	1	4 2	1	L	0 0) 1	L 1	. :	1	1	2	3	1	1	1	5	3 3	. 2	2 :	. 1	1 1
349 San Luis Obi 350 San Luis Obi		0 1)	2	3	1	2	1 2	1		0 0) 1			1	2	3	3	1	2	2	3 5	3 3 4 3		4 1 4 1	. 1	1 1
351 San Luis Obi	spo 0	0 0) (0	2	1	2	3	2 3	1	L	0 0	. 5	5 1	. :	1	2	2	2	3	4	4	1	3 2	. 4	4 2	: 1	2 4
352 San Luis Obi 353 San Luis Obi		0 0)	1	3	2	1	3 2	1		0 0) 1	L 1		2	3	3 4	1	1	1	2	5	4 4 1 1	. 4	4 1	. 1	1 1
354 San Luis Obi	spo 0	0 0	, i	Ď	1	1	1	1	1 1	1	L	0 0	1	. 1		2	3	2	3	1	1	1	2	2 2		2 1	. 1	1 2
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376 San Luis Obi	spo O	0 0) (D	3	1	4	4	2 2	2	2	0 0	1	L 1		3	4	3 .	1	2	2	2	3	3 4		3 2		2 3
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288Ventura0101172252165131117Santa Barbara0110173252145145283Ventura0000177240165127216Ventura000177240165127215Ventura000175255144130166Santa Barbara00018125714611710Ventura000181257146117410Ventura000166243152131101Santa Barbara000166243152131101Santuis Obispo01172237165116111Santa Barbara0001172237165116120Ventura0001172237165131120Ventura0001172237165131120Ventura0001173222153144145Santa Barbara0001173223165131120Ventura0001173223165131145Santa Barbara000175 <t< td=""><td>278</td><td></td><td>0</td><td>0</td><td>0</td><td>0</td><td></td><td></td><td></td><td></td></t<>	278		0	0	0	0				
117Santa Barbara0110173252145145283Vertura000190235150140216Vertura000177240165127225Ventura000175255144130118Santa Barbara000181257146117219Ventura000181257146117219Ventura000181257146117219Ventura000183239141132210Santa Barbara000183239141132121Santa Barbara001172237165116136Santa Barbara001182222153125200Ventura001182222153125213Ventura001174238153114145Santa Barbara000176230146114145Santa Barbara000176230146114145Santa Barbara000176230146114145Santa Barbara000176230146114146 <td< td=""><td>238</td><td></td><td>0</td><td>1</td><td>0</td><td>1</td><td></td><td></td><td>165</td><td></td></td<>	238		0	1	0	1			165	
283Vertura0000190235150140216Vertura000177240165127225Vertura001181250156121118Santa Barbara0100175255144130166Santa Barbara000181275146117410Vertura000183239141132285Vertura001172237165156285Vertura001172237165116101San Lis Obispo01172237165116202Vertura001172237165116113San Lis Obispo01172237165116120Vertura001181220162116133Vertura001173222153124144Vertura001173220165111153San Lis Obispo01172235146107145Sant Barbara001172235146107154Vertura000173229141108155Sant Barbara00 <td>117</td> <td>Santa Barbara</td> <td>0</td> <td>1</td> <td>1</td> <td>0</td> <td>173</td> <td>252</td> <td>145</td> <td></td>	117	Santa Barbara	0	1	1	0	173	252	145	
225Ventura001181250156119118Santa Barbara010175255144130165Santa Barbara000181257146117101Ventura000181257146117410Ventura000183239141132205Ventura000166243152131200Ventura0001172237165116201Ventura0001182222153116202Ventura0001182222153125131203Ventura0001182222153125126204Ventura0001182222153125126205Ventura0001173222153146117205Ventura000161240161141141216Ventura000167230146107217Ventura000173229141108218Ventura000167231138112216Ventura000	283	Ventura	0		0	0	190			140
118Santa Barbara0100175255144130166Santa Barbara0001180249154121129Ventura000181257146117410Ventura000172237165125285Ventura000166243152311101San Luis Obispo00166243152311102Ventura000166243152311103Santa Barbara000166243153116116Santa Barbara0001172237165116116Santa Barbara0001172237165116117Ventura0001174238153114118Santa Barbara000176230146111119San Luis Obispo01172235146111116San Luis Obispo000161240150111116San Luis Obispo000177235146107118Santa Barbara000169232140111119San Luis Obispo000167231	216	Ventura	0	0	0	0	177	240	165	127
166Santa Barbara0001180249154121219Ventura000181257146117410Ventura000172237165125218Ventura000183239141131100San Luis Obispo0110166243152131200Ventura0001172237165116201Santa Barbara0001182222153125202Ventura0001174238153114145Santa Barbara0001177222159122203Ventura0001173222159122204Ventura000161240160114145Santa Barbara000161240150114146Ventura000161230146114146San Luis Obispo0100173239146107204Ventura000175230146114116205Ventura00175232140111138114206Ventura00	225	Ventura	0	0	0	1	181	250	156	119
219Ventura000181257146117410Ventura0001172237165125285Ventura000183239141133200San Luis Obispo0110166243152131200Ventura0001172237165116136Santa Barbara0001182222153125203Ventura0001174238153114145Santa Barbara0001173222159122146141177230146114114145Santa Barbara000176230146114146San Luis Obispo000161243150111156Santa Barbara000176230146114116San Luis Obispo000162232140111156Santa Barbara000167232141108146Ventura000167232141101156Ventura000161231138112156Ventura000164226141111	118	Santa Barbara	0	1	0	0	175	255	144	130
410Ventura0001172237165125285Ventura000183239141132101San Luis Obispo01172237165116136Santa Barbara0001172237165116136Santa Barbara0001182222153125202Ventura0001174238153119203Ventura0001174238153121204Ventura0001174238153121214Ventura000176230146114116Sant Luis Obispo0100161240150114116Sant Luis Obispo01175230146107207Ventura000161231138114216Ventura000167232143105210Ventura000167231138112214Ventura000161231138112215Ventura000167232143105216Ventura000161231138112	166	Santa Barbara	0	0	0	1	180	249	154	121
285Ventura0000183239141132101San Luis Obispo0110166243152131200Ventura0001172237165116201Santa Barbara0001182222153125202Ventura0001174238153114145Santa Barbara0001174238153114145Santa Barbara0001173222159122214Ventura000176230146114110Sant Luis Obispo01172235146114116Sant Luis Obispo01172235146114116Sant Luis Obispo01172235146114116Sant Luis Obispo01172235146114116Sant Luis Obispo000173229141108204Ventura000161231138112216Ventura000161231138112217Ventura000161231138112218Ventura000161231138 <td>219</td> <td>Ventura</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>181</td> <td>257</td> <td>146</td> <td>117</td>	219	Ventura	0	0	0	0	181	257	146	117
101San Luis Obispo0110166243152131200Ventura0001172237165116136Santa Barbara0001182222153125202Ventura0001181220162119203Ventura0101174238153114145Santa Barbara0001173222159122214Ventura000176230146131116San Luis Obispo000161240150111156Santa Barbara010175230146102204Ventura000169232140111156Santa Barbara010173229141108207Ventura000167232143105204Ventura000167232143105210Ventura000161231138112235Ventura000161231138112236Ventura000161231138112246Ventura000161231138	410	Ventura	0	0	0	1	172	237	165	125
200Ventura0001172237165116136Santa Barbara0001182222153125202Ventura0001181220162119203Ventura0001174238153114205Santa Barbara0001174238153112214Ventura0001170212156130110San Luis Obispo000161240150111156Santa Barbara000161240150111156Santa Barbara0100161240150111156Santa Barbara0100161240150111156Santa Barbara0100169232140102207Ventura000173229141108409Ventura000167232143105210Ventura00161231138112235San Luis Obispo00164226141111245Ventura00161231138112236Ventura00164266141 <td>285</td> <td>Ventura</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>183</td> <td>239</td> <td>141</td> <td>132</td>	285	Ventura	0	0	0	0	183	239	141	132
136Santa Barbara0001182222153125202Ventura0001181220162119203Ventura0101174238153114145Santa Barbara0001173222159123144Ventura0001170212156130110San Luis Obispo0100161240150111156Santa Barbara0100161240150111156Santa Barbara0101172235146107207Ventura000161240150111156Santa Barbara0100161240150111156Ventura000161230146107207Ventura000173229141108204Ventura000167232143105210Ventura000161231138112280Ventura000164226141111216Ventura00154206145128280Ventura00016723	101	San Luis Obispo	0	1	1	0	166	243	152	131
202Ventura0001181220162119203Ventura0101174238153114145Santa Barbara0001173222159122214Ventura0001170212156130110San Luis Obispo0100161240150111166Santa Barbara0100161240150111156Santa Barbara0100161240150111156Santa Barbara0100169232146107207Ventura000169232140111286Ventura000167232143105210Ventura000161231138112244Ventura0100164226141111286Ventura000164226141111210Ventura000164226141111215Ventura00154206145128216Ventura0016723113897	200	Ventura	0	0	0	1	172	237	165	116
203Ventura0101174238153114145Santa Barbara0001173222159122214Ventura0001170212156130110San Luis Obispo0000176230146114116San Luis Obispo0000161240150111156Santa Barbara0100175230146107207Ventura0001175230146102208Ventura000161232140111266Ventura000167232143108409Ventura0100167232143105210Ventura0100161231138112245San Luis Obispo000164226141111256Ventura0100164226141111268Ventura0100164226141111258Ventura000154206145128280Ventura00016723113897	136	Santa Barbara	0	0	0	1	182	222	153	125
145Santa Barbara0001173222159122214Ventura0001170212156130110San Luis Obispo0100176230146114116San Luis Obispo0000161240150111156Santa Barbara0100161240150111156Santa Barbara0101172235146107207Ventura0001175230146102208Ventura0100169232140111268Ventura000167232141108409Ventura000167232143105210Ventura0100161231138112245San Luis Obispo000164226141111260Ventura0100154206145128280Ventura00016723113897	202	Ventura	0	0	0	1	181	220	162	119
214Ventura0001170212156130110San Luis Obispo0100176230146144116San Luis Obispo0000161240150111156Santa Barbara0101172235146107207Ventura0001175230146102204Ventura0100169232140111286Ventura000167232143108409Ventura000167232143105210Ventura000161231138112345San Luis Obispo000164226141111226Ventura0100154206145128280Ventura00016723113897	203	Ventura	0	1	0	1	174	238	153	114
110San Luis Obispo0100176230146114116San Luis Obispo00000161240150111156Santa Barbara0101172235146107207Ventura00001175230146102204Ventura0000169232140111205Ventura0000169232140111206Ventura0000167232143105210Ventura0000161231138112245San Luis Obispo0000164226141111246Ventura0000154206145128247Ventura000016723113897	145	Santa Barbara	0	0	0	1	173	222	159	122
116San Luis Obispo0000161240150111156Santa Barbara01172235146107207Ventura0001175230146102204Ventura0100169232140111286Ventura000173229141108409Ventura000167232143105210Ventura0100161231138112345San Luis Obispo000164226141111226Ventura000154206145128280Ventura00016723113897	214	Ventura	0	0	0	1	170	212	156	130
156Santa Barbara01172235146107207Ventura0001175230146102204Ventura0100169232140111286Ventura000173229141108409Ventura000167232143105210Ventura0100161231138112345San Luis Obispo000164226141111226Ventura000154206145128280Ventura00016723113897	110	San Luis Obispo	0	1	0	0	176	230	146	114
207Ventura0001175230146102204Ventura0100169232140111286Ventura000173229141108409Ventura000167232143105210Ventura0100161231138112345San Luis Obispo000164226141111226Ventura0100154206145128280Ventura00016723113897	116	San Luis Obispo	0	0	0	0	161	240	150	111
204Ventura0100169232140111286Ventura000173229141108409Ventura000167232143105210Ventura0100161231138112345San Luis Obispo000164226141111226Ventura0100154206145128280Ventura00016723113897	156	Santa Barbara	0	1	0	1	172	235	146	107
286Ventura00000173229141108409Ventura000167232143105210Ventura0100161231138112345San Luis Obispo000164226141111226Ventura0100154206145128280Ventura00016723113897	207	Ventura	0	0	0	1	175	230	146	102
409Ventura0000167232143105210Ventura0100161231138112345San Luis Obispo000164226141111226Ventura0100154206145128280Ventura00016723113897	204	Ventura	0	1	0	0				111
210 Ventura 0 1 0 0 161 231 138 112 345 San Luis Obispo 0 0 0 164 226 141 111 226 Ventura 0 1 0 0 154 206 145 128 280 Ventura 0 0 0 167 231 138 97	286	Ventura	0	0	0	0				108
345 San Luis Obispo 0 0 0 164 226 141 111 226 Ventura 0 1 0 0 154 206 145 128 280 Ventura 0 0 0 167 231 138 97	409	Ventura	0	0	0	0			143	105
226 Ventura 0 1 0 0 154 206 145 128 280 Ventura 0 0 0 167 231 138 97	210		0	1	0	0				112
280 <mark>Ventura 0 0 0 0 0</mark> 167 231 138 97	345	San Luis Obispo	0	0	0	0	164		141	111
	226	Ventura	0	1	0	0		206	145	
			0	0	0	0				
		Santa Barbara	0	0	0	0	168	206	138	120
147 <mark>Santa Barbara 0 0 0 1</mark> 170 208 141 111			0							
279 <mark>Ventura 0 0 0 0 0</mark> 166 239 135 89			0	0	0	0				
182 <mark>Santa Barbara 0 1 0 1</mark> 158 197 154 118					-					
137 <mark>Santa Barbara 0 0 0 0 0</mark> 155 212 141 118	137	<mark>Santa Barbara</mark>	0	0	0	0	155	212	141	118

Combined Use Score	City
774	VENTURA
764	CAMARILLO
759	THOUSAND OAKS
753	VENTURA
753	VenturaUninc-N of 126
751	THOUSAND OAKS
751	THOUSAND OAKS
749	VENTURA
740	SIMI VALLEY
734	VenturaUninc-S of 126
733	SANTA BARBARA
732	OXNARD
728	CAMARILLO
728	OXNARD
•	VENTURA
. – .	CAMARILLO
	THOUSAND OAKS
720	VENTURA
	SANTA MARIA
	VenturaUninc-S of 126
	CAMARILLO
	OXNARD
-	SANTA MARIA
	SANTA BARBARA
-	VenturaUninc-S of 126
	THOUSAND OAKS
	VenturaUninc-S of 126
	EL PASO DE ROBLES (PASO ROBLES) THOUSAND OAKS
	GOLETA
	THOUSAND OAKS
	THOUSAND OAKS
	SANTA BARBARA
	VenturaUninc-S of 126
	SAN LUIS OBISPO
	GROVER BEACH
	SANTA BARBARA
	THOUSAND OAKS
	THOUSAND OAKS
	SIMI VALLEY
	MOORPARK
642	CAMARILLO
642	SAN LUIS OBISPO
	VenturaUninc-S of 126
633	THOUSAND OAKS
632	SANTA MARIA
630	GOLETA
629	THOUSAND OAKS
627	CARPINTERIA
626	SANTA BARBARA

ZONE	County	DAC	LIC	PG&E Substation	SCE Substation	Employee Scores	Renter Scores	Travelers Scores	Fleet Operators Scores
282	Ventura	0	0	0	0	170	240	126	89
157	Santa Barbara	0	1	0	1	170	231	133	80
144	Santa Barbara	0	0	0	1	163	212	140	99
192	Ventura	0	1	0	1	157	232	127	92
211	Ventura	0	0	0	0	155	213	122	117
149	Santa Barbara	0	0	0	1	155	186	130	135
281	Ventura	0	0	0	0	155	210	135	106
276	Ventura	0	0	0	0	157	210	128	99
190	Ventura	0	1	0	0	159	198	131	112
160	Santa Barbara	0	1	0	1	155	190	135	112
342	San Luis Obispo	0	0	0	0	155	208	135	99
126	Santa Barbara	0	0	1	0	153	185	143	110
232	Ventura	0	0	0	1	133	227	124	88
229	Ventura	0	1	0	1	148	217	116	101
222	Ventura	1	1	0	0	155	179	126	101
162	Santa Barbara	0	0	0	0	143	180	150	104
341	San Luis Obispo	0	0	0	0	149	189	134	104
246	Ventura	0	1	0	0	142	201	117	113
321	Santa Barbara	0	0	0	0	151	181	120	110
124	Santa Barbara	0	1	1	0	140	215	109	120
139	Santa Barbara	0	0	0	1	140	190	139	107
227	Ventura	0	1	0	0	137	190	135	104
318	Santa Barbara	0	0	1	0	140	188	108	111
224	Ventura	1	1	0	1	138	204	108	128
375	San Luis Obispo	0	0	0	0	138	197	104	104
180	Santa Barbara	0	1	0	0	134	137	135	104
173	Santa Barbara	0	0	0	1	134	170	133	83
223	Ventura	0	1	0	1	145	205	143	98
223	Ventura	0		0	1	135	195	108	112
195	Ventura	0	1 1	0	0	139	193	108	97
195	Ventura	0	1	0	1	143	198	114	99
248		0	1	0	0	140	199	111	106
248	Ventura Ventura	-	1	0	0	130	201	117	97
235	Ventura	1 0	1	0	0	135	201	114	88
363	San Luis Obispo	0	0	0	0	140	174	103	118
159	Santa Barbara	0	1	0	1	134	174	117	78
247	Ventura	0	1	0	1	133	201	138	103
138	Santa Barbara	0	0	0	1	131	178	107	103
138	Santa Barbara	0	0	0	1	125	178	122	115
272	Ventura	0	0	0	0	131	201	112	84
343	San Luis Obispo	0	0	0	0	130	177	112	93
343 314	Santa Barbara	0	0	0	0	138	165	118	104
258	Ventura	0	0	0	0	133	103	121	78
238 104	San Luis Obispo	0	0	1	0	137	179	114	101
	-			1		121			
255 127	Ventura Santa Barbara	0 0	1 0	0	0	127	202 188	100 110	80 77
127	Santa Barbara	0		0	0	133	188	110	107
233		1	0 0	0	0	114	156	94	91
233 197	Ventura	1	0	_	0	132	191 188	94 99	91 75
197	Ventura San Luis Obispo	-		0	0	144	188 161	99 110	108
102		0	0	1	0	124	101	110	108

Combined Use Score	City
625	SIMI VALLEY
615	SANTA BARBARA
614	SANTA BARBARA
608	SIMI VALLEY
607	VenturaUninc-S of 126
606	GOLETA
602	VenturaUninc-S of 126
601	CAMARILLO
600	SIMI VALLEY
596	SANTA BARBARA
596	PISMO BEACH
591	BUELLTON
586	OXNARD
582	PORT HUENEME
581	OXNARD
577	SBUninc-E of 101, N of 154
576	ARROYO GRANDE
573	VenturaUninc-S of 126
572	SBUninc-E of 101, N of 154
571	LOMPOC
570	GOLETA
564	VenturaUninc-S of 126
562	SANTA MARIA
561	OXNARD
561	ATASCADERO
560	SANTA BARBARA
558	SBUninc-E of 101, N of 154
557	OXNARD
554	FILLMORE
552	MOORPARK
549	MOORPARK
548	VenturaUninc-N of 126
547	VenturaUninc-S of 126
546	OXNARD
543	EL PASO DE ROBLES (PASO ROBLES)
542	SANTA BARBARA
542	VenturaUninc-N of 126
540	GOLETA
537	GOLETA
533	VenturaUninc-N of 126
526	SLOUninc-W of 101, S of 46
523	SBUninc-W of 101
521	VenturaUninc-N of 126
515	ATASCADERO
509	VenturaUninc-N of 126
508	SOLVANG
508	CARPINTERIA
508	VenturaUninc-S of 126
	MOORPARK
503	EL PASO DE ROBLES (PASO ROBLES)

ZONE	County	DAC	LIC	PG&E Substation	SCE Substation	Employee Scores	Renter Scores	Travelers Scores	Fleet Operators Scores
230	Ventura	0	1		1	124	194	100	85
199	Ventura	0	0	0	1	130	204	100	62
253	Ventura	0	1	0	0	130	175	102	99
255	Ventura	0	1	0	0	125	189	104	73
269	Santa Barbara	0	0	0	0	136	165	102	99
320	Santa Barbara	0	0	0	0	130	161	102	93
111	San Luis Obispo	0	1	0	0	132	101	112	98
155	Santa Barbara	0	1	0	1	121	159	107	93
261	San Luis Obispo	0	1	0	0	128	164	121	82
365	San Luis Obispo	0	0	0	0	116	175	116	88
339	San Luis Obispo	0	0	0	0	129	160	109	94
366	San Luis Obispo	0	0	0	0	118	172	103	97
336	San Luis Obispo	0	0	0	0	122	169	105	88
119	Santa Barbara	0	1	0	0	120	148	113	99
322	Santa Barbara	0	0	0	0	129	150	104	97
112	San Luis Obispo	0	0	0	0	123	181	93	82
191	Ventura	0	0	0	0	133	189	91	66
153	Santa Barbara	0	1	0	0	131	170	113	60
347	San Luis Obispo	0	0	0	0	107	162	101	104
167	Santa Barbara	0	0	0	1	134	187	90	62
177	Santa Barbara	0	0	0	0	115	139	122	97
212	Ventura	0	1	0	0	115	152	112	92
100	San Luis Obispo	0	1	0	0	108	157	104	101
150	Santa Barbara	0	0	0	1	128	165	107	70
154	Santa Barbara	0	1	0	0	112	162	110	86
241	Ventura	1	0	0	0	128	170	94	73
337	San Luis Obispo	0	0	0	0	124	160	97	82
109	San Luis Obispo	0	1	0	0	116	156	106	82
358	San Luis Obispo	0	0	1	0	115	164	104	77
340	San Luis Obispo	0	0	0	0	116	154	104	81
262	San Luis Obispo	0	1	0	0	112	151	101	87
326	San Luis Obispo	0	0	0	0	116	175	81	78
172	Santa Barbara	0	0	0	1	129	163	97	58
187	Santa Barbara	0	0	0	1	108	128	113	98
275	Ventura	0	0	0	0	114	152	100	79
295	Santa Barbara	0	0	0	0	121	152	108	59
185	Santa Barbara	0	0	0	1	117	139	102	80
198	Ventura	0	0	0	1	116	173	88	61
113	San Luis Obispo	0	1	1	0	109	157	100	70
178	Santa Barbara	0	0	0	1	111	137	108	79
284	Ventura	0	0	0	0	117	140	98	80
141	Santa Barbara	0	1	0	1	119	145	89	81
106	San Luis Obispo	0	0	0	0	110	158	102	61
256	Ventura	0	1	0	0	103	130	100	98
108	San Luis Obispo	0	1	0	0	107	147	93	83
231	Ventura	0	1	0	0	100	157	92	80
376	San Luis Obispo	0	0	0	0	103	139	98	87
220	Ventura	0	1	0	0	119	154	87	66
163	Santa Barbara	0	1	0	1	112	150	100	62
273	Ventura	0	1	0	0	108	150	92	74
-									

Combined Use Score	City
503	OXNARD
498	VenturaUninc-N of 126
498	VenturaUninc-N of 126
498	VenturaUninc-N of 126
498	GOLETA
498	SBUninc-W of 101
497	SLOUninc-E of 101, S of 58
496	SANTA BARBARA
495	SLOUninc-W of 101, S of 46
495	SLOUninc-W of 101, S of 46
492	SLOUninc-E of 101, S of 58
490	SLOUninc-E of 101, N of 58
484	ARROYO GRANDE
480	SANTA MARIA
480	SBUninc-E of 101, N of 154
479	SAN LUIS OBISPO
479	VenturaUninc-N of 126
474	SANTA BARBARA
474	EL PASO DE ROBLES (PASO ROBLES)
473	SANTA BARBARA
473	SBUninc-E of 101, N of 154
471	CAMARILLO
470	EL PASO DE ROBLES (PASO ROBLES)
470	SANTA BARBARA
470	SANTA BARBARA
465	VenturaUninc-S of 126
463	ARROYO GRANDE
460	SAN LUIS OBISPO
460	MORRO BAY
455	SLOUninc-E of 101, S of 58
451	SAN LUIS OBISPO
450	SLOUninc-W of 101, S of Arroyo
447	SBUninc-E of 101, N of 154
447	CARPINTERIA
445	VENTURA
440	SBUninc-E of 101, S of 154
438	SBUninc-E of 101, N of 154
	MOORPARK
	SLOUninc-W of 101, S of 46
	SBUninc-E of 101, N of 154
	MOORPARK
-	GOLETA
	SLOUninc-W of 101, N of 46
-	VenturaUninc-N of 126
	SLOUninc-W of 101, S of 46
	OXNARD
	ATASCADERO
-	VenturaUninc-S of 126
	SANTA BARBARA
424	VenturaUninc-N of 126

ZONE	County	DAC	LIC	PG&E Substation	SCE Substation	Employee Scores	Renter Scores	Travelers Scores	Fleet Operators Scores
267	Santa Barbara	0	0	0	1	105	131	103	81
252	Ventura	0	1	0	0	103	159	91	63
364	San Luis Obispo	0	0	0	0	100	127	101	88
161	Santa Barbara	0	1	0	0	100	129	105	80
168	Santa Barbara	0	0	0	1	119	156	84	55
287	Ventura	0	0	0	0	100	131	79	104
265	San Luis Obispo	0	0	1	0	100	159	76	67
142	Santa Barbara	0	1	0	1	100	138	80	71
268	Santa Barbara	0	0	0	0	107	138	95	64
310	Santa Barbara	0	0	0	0	98	141	82	83
218	Ventura	0	0	0	1	106	128	88	81
344	San Luis Obispo	0	0	0	0	100	131	85	86
328	San Luis Obispo	0	0	0	0	97	140	85	74
184	Santa Barbara	0	0	0	1	94	117	100	84
208	Ventura	0	0	0	- 1	104	152	85	51
367	San Luis Obispo	0	0	0	- 0	98	121	84	89
404	Santa Barbara	0	1	0	0	99	161	79	53
270	Santa Barbara	0	0	0	0	95	119	98	79
165	Santa Barbara	0	0	0	1	91	134	93	72
120	Santa Barbara	0	1	1	0	84	113	75	117
176	Santa Barbara	0	0	0	1	95	116	97	81
351	San Luis Obispo	0	0	0	- 0	99	137	91	62
206	Ventura	0	1	0	0	102	129	89	67
123	Santa Barbara	0	- 1	0	0	109	135	64	73
125	Santa Barbara	0	0	0	0	91	109	98	82
105	San Luis Obispo	0	1	0	0	91	141	77	67
140	Santa Barbara	0	0	0	1	101	119	94	62
164	Santa Barbara	0	0	0	1	103	140	82	51
324	San Luis Obispo	0	0	1	0	91	113	88	83
143	Santa Barbara	0	0	0	1	107	130	79	58
296	Santa Barbara	0	0	0	0	97	120	94	62
244	Ventura	0	1	0	1	86	128	76	82
331	San Luis Obispo	0	0	0	0	85	111	86	79
401	San Luis Obispo	0	1	0	0	82	147	74	58
175	Santa Barbara	0	0	0	1	96	128	93	43
299	Santa Barbara	0	0	0	0	91	115	101	53
311	Santa Barbara	0	0	0	0	106	123	62	67
291	Santa Barbara	0	0	0	1	98	124	77	58
298	Santa Barbara	0	0	1	0	90	113	93	60
169	Santa Barbara	0	0	0	1	101	137	72	44
335	San Luis Obispo	0	0	1	0	85	132	71	60
346	San Luis Obispo	0	0	0	0	89	135	68	56
294	Santa Barbara	0	0	0	0	73	95	85	88
317	Santa Barbara	0	0	0	0	91	114	72	62
264	San Luis Obispo	0	0	1	0	86	125	65	61
352	San Luis Obispo	0	0	0	0	74	101	73	89
407	Santa Barbara	0	1	0	1	78	124	84	50
300	Santa Barbara	0	0	1	0	90	111	83	49
302	Santa Barbara	0	0	0	0	76	98	83	76
309	Santa Barbara	0	0	0	0	77	101	84	70

Combined Use Score	City
420	SBUninc-E of 101, N of 154
417	VenturaUninc-N of 126
416	SLOUninc-W of 101, N of 46
415	SANTA BARBARA
414	SANTA BARBARA
414	VenturaUninc-N of 126
408	SLOUninc-E of 101, S of 58
406	GOLETA
404	SBUninc-E of 101, S of 154
404	LOMPOC
403	VenturaUninc-S of 126
403	SLOUninc-E of 101, S of 58
396	SLOUninc-W of 101, S of Arroyo
395	CARPINTERIA
392	VenturaUninc-S of 126
392	SLOUninc-E of 101, N of 58
392	SBUninc-E of 101, S of 154
391	SBUninc-E of 101, S of 154
390	SANTA BARBARA
389	SANTA MARIA
389	SBUninc-E of 101, N of 154
389	SLOUninc-W of 101, N of 46
387	THOUSAND OAKS
381	SBUninc-W of 101
380	SBUninc-W of 101
376	MORRO BAY
376	GOLETA
	SANTA BARBARA
	SLOUninc-E of 101, S of 58
••••	GOLETA
	SBUninc-E of 101, S of 154
-	VenturaUninc-N of 126
	SLOUninc-E of 101, S of 58
	SLOUninc-W of 101, S of 46
	SBUninc-E of 101, N of 154
	SBUninc-E of 101, N of 154
	LOMPOC
	SANTA BARBARA
	SBUninc-E of 101, S of 154
	SBUninc-E of 101, N of 154
	SLOUninc-W of 101, S of Arroyo
	SAN LUIS OBISPO
	SBUninc-E of 101, S of 154
	SBUninc-W of 101 SAN LUIS OBISPO
	SLOUninc-W of 101, N of 46 CARPINTERIA
	SBUninc-E of 101, S of 154
	SBUninc-E of 101, N of 154
	SBUninc-W of 101
552	

ZONE	County	DAC	LIC	PG&E Substation	SCE Substation	Employee Scores	Renter Scores	Travelers Scores	Fleet Operators Scores
170	Santa Barbara	0	0	0	1	93	123	76	39
188	Ventura	0	1	0	0	91	133	58	47
271	Santa Barbara	0	0	0	0	86	108	81	50
277	Ventura	0	0		0	84	115	84	42
259	San Luis Obispo	0	0	0	0	73	89	70	91
402	San Luis Obispo	0	1	0	0	79	123	65	53
315	Santa Barbara	0	0	0	0	70	88	72	87
371	San Luis Obispo	0	0	1	0	76	110	64	67
306	Santa Barbara	0	0	- 0	0	73	89	77	77
368	San Luis Obispo	0	0	0	0	72	94	68	81
243	Ventura	0	1	0	1	70	107	76	61
373	San Luis Obispo	0	0	0	0	81	102	68	61
128	Santa Barbara	0	0	0	1	70	87	73	81
245	Ventura	0	1	0	0	77	105	62	67
323	San Luis Obispo	0	0	0	0	69	86	71	82
134	Santa Barbara	0	0	0	1	85	106	68	47
332	San Luis Obispo	0	0	0	0	66	88	64	88
355	San Luis Obispo	0	0	0	0	78	106	68	50
234	Ventura	0	1	0	0	71	107	60	62
349	San Luis Obispo	0	0	1	0	66	99	64	68
303	Santa Barbara	0	0	1	0	71	87	72	66
334	San Luis Obispo	0	0	0	0	71	97	64	63
129	Santa Barbara	0	0	0	1	67	84	72	71
356	San Luis Obispo	0	0	0	0	83	102	55	54
370	San Luis Obispo	0	0	0	0	71	88	68	64
174	Santa Barbara	0	0	0	1	80	105	65	39
305	Santa Barbara	0	0	0	0	66	82	68	72
121	Santa Barbara	0	1	0	0	53	76	62	96
171	Santa Barbara	0	0	0	1	75	102	67	40
107	San Luis Obispo	0	1	0	0	69	102	56	56
327	San Luis Obispo	0	0	0	0	67	93	65	57
374	San Luis Obispo	0	0	0	0	63	83	73	63
304	Santa Barbara	0	0	0	0	61	77	65	75
301	Santa Barbara	0	0	0	0	72	90	67	48
308	Santa Barbara	0	0	0	0	73	92	55	55
179	Santa Barbara	0	0	0	1	66	84	65	58
292	Santa Barbara	0	0	0	0	72	89	47	61
260	San Luis Obispo	0	0	0	0	60	76	66	65
115	San Luis Obispo	0	1	0	0	61	104	44	57
151	Santa Barbara	0	0	0	0	68	103	57	38
152	Santa Barbara	0	1	0	1	70	91	60	45
348	San Luis Obispo	0	0	0	0	59	81	49	74
290	Santa Barbara	0	0	0	0	67	99	56	38
353	San Luis Obispo	0	0	0	0	63	93	64	38
146	Santa Barbara	0	0	0	1	66	96	54	41
350	San Luis Obispo	0	0	0	0	52	69	52	81
406	Santa Barbara	0	1	0	0	63	99	48	38
405	Santa Barbara	0	1	0	1	60	96	49	40
217	Ventura	0	0	0	1	64	95	46	37
250	Ventura	0	1	0	0	56	72	56	58

Combined Use Score	City
331	SANTA BARBARA
329	SIMI VALLEY
325	SBUninc-E of 101, S of 154
325	VenturaUninc-S of 126
323	SLOUninc-E of 101, N of 58
320	SAN LUIS OBISPO
317	SBUninc-E of 101, N of 154
317	ATASCADERO
316	SBUninc-W of 101
315	SLOUninc-E of 101, N of 58
314	VenturaUninc-N of 126
312	ATASCADERO
311	SBUninc-E of 101, S of 154
311	VenturaUninc-N of 126
308	SLOUninc-E of 101, S of 58
306	SBUninc-E of 101, N of 154
306	SLOUninc-E of 101, N of 58
302	SLOUninc-W of 101, S of 46
300	OXNARD
297	SLOUninc-E of 101, N of 58
296	SBUninc-E of 101, N of 154
295	SLOUninc-E of 101, N of 58
294	SBUninc-E of 101, S of 154
294	SLOUninc-W of 101, S of 46
291	SLOUninc-W of 101, S of 46
289	SBUninc-E of 101, N of 154
288	SBUninc-W of 101
287	SBUninc-W of 101
284	SBUninc-E of 101, N of 154
283	SLOUninc-W of 101, S of 46
282	SLOUninc-W of 101, S of Arroyo
282	SLOUninc-W of 101, S of 46
278	SBUninc-W of 101
277	SBUninc-E of 101, N of 154
275	SBUninc-W of 101
273	SBUninc-E of 101, N of 154
269	GOLETA
	SLOUninc-W of 101, N of 46
266	SLOUninc-W of 101, S of Arroyo
266	SANTA BARBARA
266	SANTA BARBARA
	SLOUninc-E of 101, N of 58
260	SBUninc-E of 101, N of 154
258	SLOUninc-W of 101, N of 46
-	SANTA BARBARA
254	SLOUninc-E of 101, N of 58
-	SANTA BARBARA
	SANTA BARBARA
	VenturaUninc-S of 126
242	VenturaUninc-N of 126

ZONE	County	DAC	LIC	PG&E Substation	SCE Substation	Employee Scores	Renter Scores	Travelers Scores	Fleet Operators Scores
357	San Luis Obispo	0	0	0	0	63	79	52	. 47
122	Santa Barbara	0	1	0	0	53	73	45	66
193	Ventura	0	1	0	0	68	85	43	35
329	San Luis Obispo	0	0	0	0	51	72	44	64
183	Santa Barbara	0	0	0	0	56	74	58	42
361	San Luis Obispo	0	0	0	0	58	94	40	38
228	Ventura	0	0	0	1	56	78	45	48
263	San Luis Obispo	0	1	0	0	55	82	47	43
369	San Luis Obispo	0	0	0	0	56	77	44	49
130	Santa Barbara	0	1	0	0	56	72	56	40
297	Santa Barbara	0	0	0	0	56	72	56	40
354	San Luis Obispo	0	0	0	0	51	71	56	46
362	San Luis Obispo	0	1	0	0	60	82	41	40
325	San Luis Obispo	0	0	1	0	52	69	40	60
372	San Luis Obispo	0	0	1	0	58	79	40	38
307	Santa Barbara	0	0	1	0	50	70	43	48
359	San Luis Obispo	0	0	0	0	48	79	44	40
114	San Luis Obispo	0	1	0	0	50	70	41	47
131	Santa Barbara	0	1	0	0	39	56	35	76
132	Santa Barbara	0	1	0	0	40	56	37	73
103	San Luis Obispo	0	1	1	0	50	77	36	41
313	Santa Barbara	0	0	0	0	46	62	44	50
266	San Luis Obispo	0	0	0	0	43	59	32	66
316	Santa Barbara	0	0	0	0	46	62	39	50
288	Santa Barbara	0	0	0	0	48	72	44	32
360	San Luis Obispo	0	0	0	0	48	79	32	37
403	Santa Barbara	0	1	1	0	38	69	32	45
251	Ventura	0	1	0	0	43	64	36	39
135	Santa Barbara	0	1	0	0	42	60	43	34
289	Santa Barbara	0	0	0	0	44	64	36	33
338	San Luis Obispo	0	0	0	0	44	63	32	36
133	Santa Barbara	0	0	0	1	40	56	37	38
312	Santa Barbara	0	0	0	0	38	54	32	35
186	Santa Barbara	0	0	0	1	38	54	32	30
293	Santa Barbara	0	0	0	0	38	54	32	30
330	San Luis Obispo	0	0	1	0	38	54	32	30
333	San Luis Obispo	0	0	0	0	38	54	32	30
377	San Luis Obispo	0	0	0	0	38	54	32	30

Combined Use Score	City
241	SLOUninc-W of 101, S of 46
237	GUADALUPE
231	SIMI VALLEY
231	SLOUninc-W of 101, S of Arroyo
230	SBUninc-E of 101, N of 154
230	SLOUninc-W of 101, S of 46
227	PORT HUENEME
227	SAN LUIS OBISPO
226	SLOUninc-E of 101, N of 58
224	SBUninc-E of 101, N of 154
224	SBUninc-E of 101, S of 154
224	SLOUninc-W of 101, S of 46
223	SLOUninc-W of 101, S of 46
221	SLOUninc-W of 101, S of Arroyo
215	ATASCADERO
211	SBUninc-W of 101
211	SLOUninc-W of 101, S of 46
208	SLOUninc-W of 101, S of Arroyo
206	SBUninc-E of 101, N of 154
206	SBUninc-E of 101, N of 154
204	EL PASO DE ROBLES (PASO ROBLES)
	SBUninc-W of 101
200	SLOUninc-E of 101, S of 58
-	SBUninc-W of 101
	SBUninc-E of 101, N of 154
	SLOUninc-W of 101, S of 46
	SANTA MARIA
-	VenturaUninc-N of 126
	SBUninc-E of 101, S of 154
	SBUninc-E of 101, N of 154
	SLOUninc-E of 101, S of 58
	SBUninc-E of 101, S of 154
	SBUninc-W of 101
	SBUninc-E of 101, N of 154
	GOLETA
	SLOUninc-W of 101, S of Arroyo
	SLOUninc-E of 101, N of 58
154	ATASCADERO



APPENDIX C-2: PG&E Fast Charger Information

See next 6 pages.

Criteria	Description	Default weight for criteria (note that these are only valid within each group of criteria)	Data format	1	2	3	4	5
MINIMUM SITING CONDITION		chteriaj	Tormat		1	L		1
•	nditions must be marked 'Y' for a site to	•	hted Sco	ore in Column BM. Therefo	ore, as soon as the user er	ters 'N' for one of these N	Vinimum Conditions, the	site receives a zero Final
1. Sufficient spaces	need not bother filling the remainder of Sufficient available parking spaces to	Minimum Conditions	Y/N	Y = Sufficient available p	parking spaces to install n	umber of EV chargers plar	nned (as defined by user ir	n Instructions tab Step 2)
2. ADA	install planned # of chargers shown in Instructions tab Step 2 Proposed parking space is ADA-	(ie. Total Weighted Score = 0 if ANY of these conditions is 'N')	Y/N	V - Proposod EV chargor	parking space is ADA com	nliant (ono accossiblo par	king space, plus adjacent	accoss space of 60 inches
	compliant, or adjacent space is available for conversion				es), or one adjacent parkin	g space per every 18 prop compliance	oosed charger spaces can	
3. Paved & level	Parkings space/s are paved and level		Y/N			gs space/s are paved and		
4. 24/7 access	Charger accessible 24 hrs/day, 7 days/week (no locks or gates)		Y/N		-		nd not behind locked gate	
5. Ingress/ egress 6. Safe	Easy ingress/egress from traffic Safe space for drivers, with adequate		Y/N Y/N	fa	cility, returning to the hig	hway, and continuing in th	nodate electric vehicles er he original direction of tra sufficient for drivers to fee	vel
	lighting			operating charging equ	ipment. Answer 'Y' even i reading ins	f site would require addit tructions and use of charg	ional lighting at specific pa ging station.	arking space to facilitate
7. Visible	Highly visible, or ability to install clear directional signage from main road/thoroughfare		Y/N			main road or freeway	finding signs to clearly sh	
8. Restrooms 9. Willing host	Restrooms and drinking water Willing site host with authority to sign lease (or agreement of owner)		Y/N Y/N		hosting a charging station		hin two-minute walk via si I has authority to sign a le pace is willing to sign)	
10. Hazard	On additional screen, free of contamination with hazardous waste		Y/N	developer. One definition listed on, one of the da sites in the state (availab hosted business that u cleaning, waste manage	on garnered from expert in atabases that constitute the le here: http://www.calege se the land for hazardous ement or storage, landfill	nterviews is as follows: Sit ne California Environment ba.ca.gov/SiteCleanup/Co waste intensive activities services, chemical proces	s and funding sources for e is not directly listed on, al Protection Agency's "Cc rteseList/). Property does i, including but not limited sing or storage, or wood p es can be resolved with m	or adjacent to a property prtese list" of hazardous not host nor has recently to airport tarmacs, dry processing. If site is a gas
SITING TO INCREASE EV ADOP		1						
11. Food	Food for purchase	5	1-5	Food is not available at potential site, nor within a 2-minute walk via safe path	Food is available at potential site, or within a 2-minute walk via safe path, at least 8 hours/day, 7 days/week	a 2-minute walk via safe path, at least 12	Food is available at potential site, or within a 2-minute walk via safe path, at least 16 hours/day, 7 days/week	Food is available at potential site, or within a 2-minute walk via safe path, 24 hours/day, 7 days/week
12. Parking capacity	Sufficient non-EV parking on site (to avoid customer complaints over EV conversion, and to provide space for EVs to wait if charger is occupied)	5	1-5	Highly constrained parking	Constrained parking, high utilization of non- EV parking space/s	Plenty of non-EV parking, but high utilization of non-EV parking space/s		Plenty of unused parking area
13. Enforcement	Parking time limits, with enforcement	4	1 - 5	Poor or zero time limits and/or parking enforcement	Parking time limit, not enforced	4 hour time limit exists, signs present, enforced	2 hour time limits exist, signs present, enforced	24/7 parking enforcement exists
14. Shelter	Shelter from inclement whether, or nearby indoor location very nearby	4	Y/N		an cover a charging static	n, or indoor/overhang sh	elter available 24/7 within	short distance of charge
15. Premium space	Ability to offer premium/preferred spaces for EV charging	3	Y/N	Y	f = Site host willing and ab	le to offer premium / pre	ferred spaces for EV drive	
16. Shop / lodge	Nearby shopping and/or lodging	3	1 - 5	No shopping or lodging within a five-minute walk	At least 2 shopping/lodging outlets (not including food outlets) within a 5- minute walk	At least 4 shopping/lodging outlets (not including food outlets) within a 5- minute walk	At least 6 shopping/lodging outlets (not including food outlets) within a 5- minute walk	At least 8 shopping/lodging outlets (or 1 deparment store or supermarket) within a 5-minute walk
17. Future spaces	Adjacent space available to install future chargers beyond planned # of chargers shown in Instructions tab Step 2	3	1-5	No adjacent spaces available for conversion to EV charging	to EV charging	2 adjacent space available for conversion to EV charging	to EV charging	4 or more adjacent spaces available for conversion to EV charging
18. Future capacity	Excess transformer capacity for at least two additional chargers beyond planned # of DCFC EVSEs shown in Instructions tab Step 2	2	Y/N				of potential site to fit at le (shown in Instructions tab	
19. Wifi	Wireless internet available	1	Y/N		Y = Reliable public	Wifi is available at site at	no or nominal cost	
SITING TO MINIMIZE COST 20. Transformer Capacity	Sufficient available capacity on a 480V, three phase transformer to install planned # of new chargers shown in Instructions tab Step 2	5	Y/N	Step 2. This is calcula	ted by comparing a) the n t of the site (column U) wi	o. of DCFCs that can be se		n a 480V, three-phase
21. Distance	Distance from transformer to furthest proposed EV space at site	1	1-5	Proposed EV parking space is greater than 150 feet from 480V, three-phase transformer	Proposed EV parking space is 101 - 150 feet from 480V, three-phase transformer	Proposed EV parking space is 51 - 100 feet from480V, three-phase transformer	Proposed EV parking space is 21 - 50 feet from 480V, three-phase transformer	Proposed EV parking space is within 20 feet of 480V, three-phase transformer
22. Surface	Surface material b/w transformer and furthest proposed EV space	1	1 - 5	Path to furthest proposed EV parking space from transformer is fully concrete or asphalt. 480V, three- phase transformer is > 20 feet from EV space	Path to furthest proposed EV parking space from transformer is mostly concrete/asphalt and some dirt/grass. 480V, three-phase transformer	Path to furthest proposed EV space is mostly dirt/grass and some concrete/asphalt. 480V, three-phase transformer is > 20 feet from EV space	Path to furthest proposed EV parking space is fully dirt or grass. 480V, three-phase transformer is > 20 feet from EV space	480V, three-phase transformer is within 20 feet of furthest proposed EV parking space.
SITING FOR DISADVANTAGED		Min Condition for Dia	V/M	Data is see filled at	ontial stals comments	in the ten growth of a l	EnviroSeroes 2.0	
23. CalEnviroScreen top PG&E quartile	Top quartile of Cal EnviroScreen2.0 Score within PG&E's territory	Min. Condition for Disad. Comm. Score (24 or 25 must be Y,	Y/N	Data is pre-filled. Pot	ential site's census tract is	s in the top quartile of Cal	EnviroScreen2.0 scores w	ntnin PG&E's territory
24. CARE top quartile	Top quartile of PG&E's CARE rate eligibility	otherwise Disad. Comm. Score = 0)	Y/N				RE-eligible census tracts, the top 25% of the ranked	
25. Near non-luxury MUD	Near non-luxury multi-unit dwelling/s	5	Y/N		Within 2 minutes' driv user need only fill this fie	e of at least one non-luxu Id for a give site if at least	ry multi-unit dwelling. one of fields 23. or 24. ab	
26 Minority-owned	Minority-owned business	5	Y/N	I	Data is pre-fi	lled. Site is a minority-ow	ned business.	

Dwell time	Site type
Short dwell time	Bakery
	Bank
	Drug store
	Gas station
	Grocery or convenience store
	Health food store
	Post office
Medium dwell time	Clothing store
	Court
	Department store
	Electronics store
	Environmental agency
	Furniture, home appliances
	Government building
	Gym or health club
	Hospital
	Library
	Medical office
	Movie theater
	Museum, performing arts, or art gallery
	Parking lot
	Restaurant or café
	Retail store
	Sports field or stadium
	Supermarket
	Tourist attraction or recreation site
	Utility regulator
Long dwell time	Airport
	Botanical garden, zoo, or aquarium
	College or university
	Lodging
	Railway station
Not classified	Existing DCFC, not elsewhere classified
	Existing Level 2, not elsewhere classified

One-mile radius bub location	Number of new public EVSEs needed in bubble by 2025	ed Bubbles, if any, that overlap with this bubble						Existing in	nfrastructure at site								WEIGHTIN SCORING (For each Score: Min= 0, Max = 100) Norss These Static Values were pasted in by SLOCAPCD and are from the equations from the original PG&E spreadsheet
														c	STTING TO MINIMIZE CO: (Higher score = lower cos FOR RITERIA WITHIN COST		TES
															SCORE (min 1, max 5) >>> 5 1	COMMUNITIES one of 23. or 24. are SCORE "Y," Disad. Comm. (min 1, max 5) Score is increased by >>> 25 points 5 CallenviroSc reen top Near non-	5 0.33 0.33 5CONE site
												e e	5 x 8 c	P A	Transformer capacity Distance Su	PG&E CARE top luxury Min	ALL MININE V ADOPTICOT SCOR DISADVANTAGED COMMUNITIES SCORE
	Under ZEV Goal Lattude scenario e of (1.45M (2.4M) bubble vehicles vehicles center by 2025) by 2025	bil on lo 1	Site type	Name	Address	City	Zip code Site longitude	evisting L2 chargees at site	Network for existing L2 charges (where available)	# existing D C fast chargers at sit Network for existing DCFC charg (where available)	No. of new DCFG that can be served by excess transformer capacity in the of the	Approx No. of altes that can ser up to 65 Wu worth of DCF(2) by the excess transformer cap activ (Added by SLOCAPCD) Approx No. of alter that can ser	Derveen: La and Jos yow worn DDT(s) by the excess transform capacity (Added by SLOCAYCD) Approx. No. of sites that can ser- between 2066 and 325. Nu vor transformer capacity (Added by SLOCAYCD)	Approx. No. of altes that can sen at least 390 kW worth of DCFGs the excess transformer cap acity (Added by SLOCAP CD)	ated 20. Sufficient available capacityo 4800, three-phase of anotheme or instant jammed or forware 20CF toty totata phase of some or some 21. bisturce from transformer to turthest proposed by space at site 22. Surface material by W	Propose Propos	No. of new DC/Cs That Can be screed by screes transform er capacity transform er capacity
19 -120.669	9 35.2752 4 7	19-1 019	Bakery	Breaking Bread Bakery Inc	1074 Higuera St	San Luis Obispo	93401-3626 -120.660188	35.281678 0		0	6+ At Least 390 kW	225	13 5	71	format Y/N 1-5	Tormat >>>	N N O 72 O O Data not yet filled Son N N 29 6
		19-2 019 19-3 019	Bank Bank	Heritage Oaks Bank Mufg Union Bank Na	1144 Morro St 995 Higuera St	San Luis Obispo San Luis Obispo	93401-3399 -120.660984 93401-3601 -120.660823	35.280001 0 35.28097 0		0	2 - 3 130 to 195 kW 6+ At Least 390 kW		1	1	Y Y	N N	N 0 71 0 0 Data not yet filled Short N 19 2 N N 0 71 0 0 Data not yet filled Short N 19 2
		19-4 019 19-5 019	Bank Bank	Pacific Western Bank Slo Credit Union	1001 Marsh St 1220 Osos St	San Luis Obispo	93401-3629 -120.659864 93401-3620 -120.659865	35.280322 0		0	2 - 3 130 to 195 kW 2 - 3 130 to 195 kW		1 1		Y Y	N N N N	N 0 71 0 0 Data not yet filled Short N N 19 2 N 0 71 0 0 Data not yet filled Short N N 19 2
		19-6 019 19-7 019	Bank Bank	Union Bank Company US Bank National Association	995 Higuera St 201 Madonna Rd	San Luis Obispo	93401-3601 -120.660823 93405-5401 -120.676378	35.263811 0		0	6+ At Least 390 kW 6+ At Least 390 kW			1	Y	N N N N	N 0 71 0 0 Data not yet filled Short N N 19 6 N 0 71 0 0 Data not yet filled Short N N 19 6
		19-8 019 19-9 019	Clothing store Clothing store	Abercromble & Fitch Stores Inc Banana Republic LLC	980 Higuera St 990 Higuera St	San Luis Obispo	93401-3602 -120.661064 93401-3602 -120.661035	35.281183 0		0	6+ At Least 390 kW 6+ At Least 390 kW			1	Y	N N	N 0 71 0 0 Data not yet filled Medium N 19 6 N 0 71 0 0 Data not yet filled Medium N 19 6 N 0 71 0 0 Data not yet filled Medium N 19 6
		19-10 019 19-11 019 19-12 019	Clothing store Clothing store Clothing store	Chicos Fas Inc Live Local Apparel Urban Outfitters Inc	1080 Court St 978 Monterey St 962 Monterey St	San Luis Obispo	93401-3203 -120.661157 93401-3205 -120.661643 93401-3205 -120.661659	35.281831 0		0 0 0	6+ At Least 390 kW 6+ At Least 390 kW 6+ At Least 390 kW			1	Y Y Y	N N	N 0 72 0 0 Data not yet filled Medium N 19 6 N N 0 71 0 0 Data not yet filled Medium N 19 6 N N 0 71 0 0 Data not yet filled Medium N N 19 6 N N 0 72 0 0 Data not yet filled Medium N 19 6
		19-12 019 19-13 019 19-14 019	Department store Existing Level 2, not elsewhere classified	Kohls Department Stores Inc Best Western Plus Royal Oak Hotel	205 Madonna Rd 214 Madonna Rd San Luis Obisoo	San Luis Obispo	93401-3205 -120.661659 93405-5401 -120.676402 93405-3405 -120.678337	35.263793 0		0	6+ At Least 390 kW 6+ At Least 390 kW <2			1	Y N	N N	N N 0 71 0 0 Data not yet filled Medium N 19 6 N N 0 71 0 0 Data not yet filled Medium N 19 6 N N 0 14 0 0 Data not yet filled Medium N 19 6
		19-14 019 19-15 019 19-16 019	Existing Level 2, not elsewhere classified Existing Level 2, not elsewhere classified Existing Level 2, not elsewhere classified	Cole Value Center Marcum, Copp, Barbieri DDS	1371 Monterey St San Luis Obispo 1129 Pacific Street	San Luis Obispo	93401-3401 -120.655869 93401-3401 -120.657433	35.284786 1	Non-networked	0	At least 65 kW <2	1			N N	N N N	/A N 0 14 0 0 Data not yet filled N/A N Y 19 0
		19-17 019 19-18 019	Furniture, home appliances	Best Appliance Guy Pottery Barn Inc	893 Marsh St Ste 496 1060 Court St	San Luis Obispo	93401-3401 -120.651055 93401-3203 -120.661055 93401-3203 -120.661233	35.279619 0	NORTHEEWORKED	0	2 - 3 130 to 195 kW 6+ At Least 390 kW	1	1		Y	N N	N 0 71 0 0 Data not yet filled Medium N 19 2
		19-19 019 19-20 019	Gas station Government building	James Pfeil County of San Luis Obispo	204 Madonna Rd 1150 Osos St Ste 202	San Luis Obispo	93405-5409 -120.676127 93401-3692 -120.660296	35.264361 0		0	6+ At Least 390 kW 6+ At Least 390 kW			1 1	Y	N N	N 0 71 0 0 Data not yet filled Short N 19 6
		19-21 019 19-22 019	Medical office Medical office	Richard J Macias MD Veterans Health Administration	1235 Osos St Ste 100 1288 Morro St Ste 200	San Luis Obispo	93401-3619 -120.659924 93401-6302 -120.660397	35.279928 0		0	2 - 3 130 to 195 kW 2 - 3 130 to 195 kW		1	1	Y	N N	N 0 71 0 0 Data not yet filled Medium N 19 2
		19-22 019 19-23 019 19-24 019	Parking lot Post office	Marsh St. Garage United States Postal Service	881 Marsh St. 893 Marsh St	San Luis Obispo	93401-0302 -120.661385 93401-3699 -120.661055	35.278706 4		0	2 - 3 130 to 135 kW <2	1	1		N Y	N N N	N 0 14 0 0 Data not yet filled Medium Y 19 0
		19-25 019	Restaurant or café Restaurant or café	Bello Mundo Cafe Blue	980 Monterey St 998 Monterey St	San Luis Obispo	93401-3899 -120.661641 93401-3205 -120.661641 93401-3205 -120.661624	35.281832 0		0	6+ At Least 390 kW		1	1	Y	N N	N 0 71 0 0 Data not yet filled Medium N 19 6
		19-26 019 19-27 019 19-28 019	Restaurant or care Restaurant or café Restaurant or café	Giuseppes	1010 Court St 1074 Higuera St	San Luis Obispo	93401-3205 -120.661624 93401-3203 -120.661427 93401-3626 -120.660188	35.281552 0		0	6+ At Least 390 kW 6+ At Least 390 kW 6+ At Least 390 kW			1	Y	N N	N 0 71 0 Data not yet filled Medium N 19 6
		19-28 019 19-29 019 19-30 019	Restaurant or café Restaurant or café	Louisas Place Mos Smokehouse Bbg	964 Higuera St 1005 Monterey St	San Luis Obispo	93401-3626 -120.661525 93401-3602 -120.661525 93401-3237 -120.661157	35.280895 0		0	6+ At Least 390 kW 6+ At Least 390 kW 6+ At Least 390 kW			1	Y	N N	N 0 71 0 0 pata not yet filled Medium N 19 6 N 0 71 0 0 pata not yet filled Medium N 19 6 V 0 71 0 0 pata not yet filled Medium N 19 6
		19-30 019 19-31 019 19-32 019	Restaurant or café Restaurant or café	Que Pasa Mexican Cafe Thai Palace	1005 Monterey St 1009 Monterey St 1015 Court St	San Luis Obispo	93401-3237 -120.661157 93401-3256 -120.661157 93401-3203 -120.66155	35.281773 0		0	6+ At Least 390 kW			1	Y	N N	N O 71 O D Data not yet filled Medium N 19 6 N 0 71 0 0 Data not yet filled Medium N 19 6 V 0 71 0 0 Data not yet filled Medium N 19 6
		19-32 019 19-33 019 19-34 019	Restaurant of care Restaurant or café Supermarket	Woodstocks Pizza LLC Ralphs Grocery Company	1015 Court St 1000 Higuera St 201 Madonna Rd	San Luis Obispo	93401-3203 -120.660188 93401-3626 -120.660188 93405-5401 -120.676378	35.281678 0		0	6+ At Least 390 kW 6+ At Least 390 kW 6+ At Least 390 kW			1	Y	N N	Y N 0 72 0 0 Data not yet filled Medium N N 19 6 N N 0 71 0 0 pata not yet filled Medium N N 9 6 N N 0 72 0 0 pata not yet filled Medium N N 9 6
51 -120.43	6 34.9556 3 5	51-1 051	Bakery	Cookie Cookery Inc Ginas Piece of Cake	239 Town Ctr E 307 Town Ctr E	Santa Maria	93454-5130 -120.434214 93454-5139 -120.434818	34.952139 0		0	6+ At Least 390 kW			1	Y	N N	N 0 71 0 0 Data not yet filled Short N 51 6
		51-2 051 51-3 051	Bank	Bank America National Assn	300 Town Ctr E	Santa Maria	93454-5139 -120.434818 93454-5180 -120.433996 93454-5129 -120.433996	34.951802 0		0	6+ At Least 390 kW 6+ At Least 390 kW			1	Y Y Y	N N	N 0 71 0 0 Data not yet filled Short N N 51 6
		51-4 051 51-5 051	Clothing store	Claires Boutiques Inc Fashion Max Foot Locker Retail Inc	130 Town Ctr E Spc D42 181 Town Ctr E 110 Town Ctr E	Santa Maria	93454-5129 -120.433996 93454-5158 -120.433784 93454-5129 -120.433996	34.952036 0		0	6+ At Least 390 kW			1	Y Y Y	N N N	N 0 71 0 0 Data not yet filled Medium N N S1 6 N N 0 71 0 0 Data not yet filled Medium N N 51 6 N N 0 71 0 0 Data not yet filled Medium N N 51 6
		51-6 051 51-7 051	Clothing store Clothing store	Foot Locker Retail Inc Foot Locker Retail Inc Leenee Clothing Inc	274 Town Ctr E 181 Town Ctr E	Santa Maria	93454-5129 -120.433996 93454-5140 -120.433996 93454-5158 -120.433784	34.951802 0		0	6+ At Least 390 kW			1	Y Y Y	N N	N 0 71 0 0 Data not yet filled Medium N 51 6
		51-8 051 51-9 051	Clothing store Clothing store	Maxx Plus	118 Town Ctr E	Santa Maria	93454-5129 -120.433996	34.951802 0		0	6+ At Least 390 kW 6+ At Least 390 kW			1	Y	N N N	N 0 71 0 0 Data not yet filled Medium N S1 6 N N 0 71 0 0 Data not yet filled Medium N S1 6 N N 0 71 0 0 Data not yet filled Medium N S1 6
		51-10 051 51-11 051	Clothing store Clothing store	Pacific Sunwear California Inc Payless Shoesource Inc	166 Town Ctr E 261 Town Ctr E	Santa Maria	93454-5131 -120.433996 93454-5130 -120.434426	34.952148 0		0	6+ At Least 390 kW 6+ At Least 390 kW			1	Y	N N	N 0 71 0 0 Data not yet filled Medium N N 51 6
		51-12 051 51-13 051	Clothing store Clothing store	Sandbox Kids Styles For Less Inc	118 Town Ctr E Ste D 118 Town Ctr E D-44	Santa Maria	93454-5129 -120.433996 93454-5129 -120.433996	34.951802 0		0	6+ At Least 390 kW 6+ At Least 390 kW			1	Y	N N N	N 0 71 0 0 Data not yet filled Medium N 51 6 N 0 71 0 0 Data not yet filled Medium N 51 6
		51-14 051 51-15 051	Clothing store Department store	Trendsetter Fashions Fallas Discount Stores	176 Town Ctr E 201 Town Ctr W	Santa Maria	93454-5131 -120.433996 93458-5075 -120.436705	34.95123 0		0	6+ At Least 390 kW 6+ At Least 390 kW			1	Y Y	Y Y	N 0 71 0 0 Data not yet filled Medium N S1 6 N 0 71 33 0 Data not yet filled Medium N S1 6 N 0 71 33 0 Data not yet filled Medium N S1 6
		51-16 051 51-17 051	Department store Department store Department store	Macys West Stores Inc Sears Roebuck and Co	302 Town Ctr E 200 Town Ctr E	Santa Maria	93454-5160 -120.433996 93454-5161 -120.433996	34.951802 0		0	6+ At Least 390 kW 6+ At Least 390 kW			1	Y	N N N	N 0 71 0 0 Data not yet filled Medium N S1 6 N N 0 71 0 0 Data not yet filled Medium N S1 6 N N 0 71 33 0 Data not yet filled Short Y N 51 4
		51-18 051 51-19 051	Drug store Environmental agency	Alliance For Phrm Access Santa Maria City of Marine College Lag	237 Town Ctr W 122 419 S McClelland St	Santa Maria	93458-5075 -120.437054 93454-3454 -120.43445	34.949679 0		0	4 - 5 260 to 325 kW 6+ At Least 390 kW		1	1	Y	N N	N 0 71 0 0 Data not yet filled Medium N N 51 6
		51-20 051 51-21 051	Furniture, home appliances Government building	Merlos Cutlery Inc Santa Maria City of Santa Maria City of	138 Town Ctr E 204 E Cook St 110 E Cook St	Santa Maria	93454-5129 -120.433996 93454-5136 -120.434111	34.949725 0		0	6+ At Least 390 kW 6+ At Least 390 kW			1	Y	N N N	N 0 71 0 0 Data not yet filled Medium N S1 6 N N 0 71 0 0 Data not yet filled Medium N S1 6 N 0 71 0 0 Data not yet filled Medium N S1 6 N 0 71 0 0 Data not yet filled Medium N S1 6
		51-22 051 51-23 051	Government building Health food store	General Nutrition Centers Inc	222 Town Ctr E	Santa Maria	93454-5163 -120.435039 93454-5131 -120.433996	34.951802 0		0	6+ At Least 390 kW 6+ At Least 390 kW			1	Y Y	N N	N 0 71 0 0 Data not yet filled Short N N 51 6
		51-24 051 51-25 051	Library Medical office	Santa Maria City of Angeline Deguzman MD	421 S McClelland St 301 E Cook St Ste K	Santa Maria	93454-5116 -120.434451 93454-5134 -120.432864	34.950012 0		0	6+ At Least 390 kW 6+ At Least 390 kW			1	Y		N 0 71 0 0 Data not yet filled Medium N 51 6
		51-26 051 51-27 051		Frank D Gnzales MD A Prof Corp Museum of Natural History	301 E Cook St Ste C 412 S McClelland St	Santa Maria	93454-5133 -120.432864 93454-5117 -120.434115	34.949721 0		0	6+ At Least 390 kW 6+ At Least 390 kW			1	Y Y		N N 0 71 0.0 0 pata not yet filled Medium N N 51 6 N N 0.71 0.0 0 Data not yet filled Medium N N 51 6 V N 0.71 0.0 0 Data not yet filled Medium N N 51 6
		51-28 051 51-29 051	Restaurant or café Restaurant or café	Cafe Steinbecks Mikado Japanese Restaurant	421 S McCielland St 209 Town Ctr W	Santa Maria	93454-5116 -120.434451 93458-5075 -120.436783	34.951167 0		0	6+ At Least 390 kW 6+ At Least 390 kW			1	Y	Y Y	N 0 71 33 0 Data not yet filled Medium Y N 51 6
		51-30 051 51-31 051	Restaurant or café Restaurant or café	Red Robin Restaurant Sake Sushi	101 Town Ctr E 194 Town Ctr E	Santa Maria	93454-5128 -120.433643 93454-5131 -120.433996	34.951802 0		0	6+ At Least 390 kW 6+ At Least 390 kW			1	Y		N 0 71 0 0 Data not yet filled Medium N S1 6 N 0 71 0 0 Data not yet filled Medium N S1 6
		51-32 051 51-33 051	Restaurant or café Restaurant or café	Semplici Italian Eatery Subway	198 Town Ctr E 193 Town Ctr E	Santa Maria	93454-5131 -120.433996 93454-5158 -120.43384	34.952049 0		0	6+ At Least 390 kW 6+ At Least 390 kW			1	Y	N N	N N 0 71 0 0 Data not yet filled Medium N N 51 6 N N 0 72 0 0 Data not yet filled Medium N S1 6 N N 0 71 0 0 Data not yet filled Medium N S1 6
		51-34 051 51-35 051	Restaurant or café Restaurant or café	Taqueria El Buen Gusto Teriyaki Bowl	241 Town Ctr W 194 Town Ctr E	Santa Maria	93458-5075 -120.437093 93454-5131 -120.433996	34.951802 0		0	4 - 5 260 to 325 kW 6+ At Least 390 kW		1	1	Y	N N	N 0 71 33 0 Data not yet filled Medium Y N 51 4 Y N 0 71 0 0 Data not yet filled Medium N S1 6
		51-36 051 51-37 051	Restaurant or café Tourist attraction or recreation site	Vera Pizzeria La Motionz Inc	239 Town Ctr W 218 Town Ctr E		93458-5075 -120.437074 93454-5131 -120.433996			0	4 - 5 260 to 325 kW 6+ At Least 390 kW		1	1	Y Y	Y Y	N 0 71 33 0 Data not yet filled Medium Y N 51 4 N N 0 71 0 0 Data not yet filled Medium N 51 6
64 -120.62	3 35.1216 3 4	64-1 064 64-2 064	Bakery Bakery	Panaderia Carmelita Payo Laboratories Inc	1051 S 13th St Ste A 680 Farroll Rd		93433-3105 -120.61619 93433-2660 -120.623467			0	<2 At least 65 kW <2 At least 65 kW	1			N N	N N	N N 0 14 0 0 Data not yet filled Short N N 64 0 N N 0 14 0 0 Data not yet filled Short N 64 0
		64-3 064 64-4 064	Bakery Bank	Wilson Cupcake Company Heritage Oaks Bank	1630 Longbranch Ave 1530 E Grand Ave	Grover Beach	93433-2577 -120.611253 93420-2406 -120.606817	35.11886 0		0	<2 At least 65 kW <2 At least 65 kW	1			N N	N Y	N 0 14 33 0 Data not yet filled Short y N 64 0 N N 0 14 33 0 pata not yet filled Short y N 64 0
		64-5 064 64-6 064	Bank Bank	Jpmorgan Chase Bank Nat Assn Rabobank National Association	1758 W Grand Ave 899 W Grand Ave		93433-2293 -120.609648 93433-2133 -120.620386			0	<2 At least 65 kW <2 At least 65 kW	1			N N		N N 0 14 33 0 Data not yet filled Short Y N 64 0 N N 0 14 0 0 Data not yet filled Short N N 64 0
												1		1		N N	

	64-7 06	54 Bank	Wells Fargo Bank National Assn	1580 W Grand Ave	Grover Beach	93433-2261 -120.6	1777 35.12094 0	0	0	At least 65 kW	N
	64-8 06		Bella Tutta	1750 El Camino Real Ste E	Grover Beach	93433-1416 -120.6		0	<2	At least 65 kW 1	N
	64-9 06		Diamond Adult World 5	984 W Grand Ave	Grover Beach	93433-2136 -120.6		0	<2	At least 65 kW 1	N
	64-10 06 64-11 06		KB Horseshoes Inc Mr Glenn House of Fashion	1053 Highland Way 551 W Grand Ave	Grover Beach Grover Beach	93433-3102 -120.6 93433-2031 -120.6		0	<2	At least 65 kW 1 At least 65 kW 1	N
	64-12 06		Studio of Performing Arts	805 W Grand Ave	Grover Beach	93433-2133 -120.6		0	<2		N
	64-13 06		CVS Pharmacy Inc	1435 E Grand Ave	Arroyo Grande	93420-2423 -120.6		0	<2	At least 65 kW 1	N
	64-14 06 64-15 06		Rite Aid Drug Palace Inc Avila Electronic	1690 E Grand Ave 947 Huber St	Arroyo Grande	93420-2469 -120.6 93433-3098 -120.6		0	<2	At least 65 kW 1 At least 65 kW 1	N
	64-15 06		Radioshack Corporation	1548 W Grand Ave	Grover Beach Grover Beach	93433-2238 -120.6		0	<2 <2		N
	64-17 06		City of Oceano	928 Pacific Blvd	Oceano	93445-9649 -120.6		0	4 - 5		Y
	64-18 06		California Millwork Cole Linen Company	461 Leoni Dr 360 W Grand Ave	Grover Beach Grover Beach	93433-3028 -120.63 93433-1941 -120.63		0	<2	At least 65 kW 1	N
	64-19 06 64-20 06		Mattress Store	1800 E Grand Ave	Grover Beach Grover Beach		6969 35.121685 0 0879 35.120803 0	0	<2	At least 65 kW 1 At least 65 kW 1	N
	64-21 06	54 Furniture, home appliances	Model Home Furnishings Inc	1030 Huston St Ste E	Grover Beach	93433-3117 -120.6	9561 35.112806 0	0	<2	At least 65 kW 1	N
	64-22 06		Pryor Industries Inc	45 Newport Ave	Grover Beach	93433-1508 -120.6		0	<2	At least 65 kW 1	N
	64-23 06 64-24 06		Grover Beach Petroleum Inc Paso Robles Seventy Six	1284 W Grand Ave 684 W Grand Ave	Grover Beach Grover Beach	93433-2247 -120.6 93433-2079 -120.6	5487 35.121121 0 2896 35.121481 0	0	<2	At least 65 kW 1 At least 65 kW 1	N
	64-25 06		City of Pismo Beach	154 S 8th St	Grover Beach	93433-2073 -120.6		0	<2	At least 65 kW 1	N
	64-26 06		County of San Luis Obispo	286 S 16th St	Grover Beach	93433-2245 -120.6		0	<2	At least 65 kW 1	N
	64-27 06 64-28 06		Grover Beach City Hall Ailan Salem	154 8th St. 601 S 13th St	Grover Beach Grover Beach	93433-3433 -120.6 93433-2834 -120.6		0	<2	At least 65 kW 1 At least 65 kW 1	N
	64-29 06		Corner Tree Inc	1328 W Grand Ave	Grover Beach		4725 35.121083 0	0		At least 65 kW 1	N
	64-30 06		Gary Grieb	390 W Grand Ave	Grover Beach	93433-1941 -120.6		0	<2	At least 65 kW 1	N
	64-31 06 64-32 06		Gill Food Mart Guadala Market	1490 E Grand Ave 1400 W Grand Ave	Arroyo Grande Grover Beach	93420-2452 -120.6 93433-4221 -120.6	6482 35.120969 0 3963 35.121045 0	0	<2	At least 65 kW 1 At least 65 kW 1	N
	64-33 06		Lady Luck Enterprises	1986 Brighton Ave	Grover Beach	93433-1816 -120.6		0	<2	At least 65 kW 1	N
	64-34 06	Grocery or convenience store	Lickety Split	1544 W Grand Ave	Grover Beach	93433-2238 -120.6	1224 35.120963 0	0	<2	At least 65 kW 1	N
	64-35 06		Market Express	1051 S 13th St Ste C	Grover Beach	93433-3105 -120.6		0	<2	At least 65 kW 1	N
	64-36 06 64-37 06		Okuis Strawberry N Frt Stand Pocket Book Grocery	1234 Highland Way 294 N 4th St	Grover Beach Grover Beach	93433-3133 -120.6 93433-1926 -120.6		0	<2 <2		N
	64-38 06		Tapatia Market & Deli No 2	646 S 13th St	Grover Beach	93433-2835 -120.6		0	<2	At least 65 kW 1	N
	64-39 06	· · · · · · · · · · · · · · · · · · ·	Pacific Flips	998 Huston St	Grover Beach	93433-3114 -120.6		0	<2	At least 65 kW 1	N
	64-40 06		Expert Nutrition By RDS Natural Edge	1690 Brighton Ave 555 S 13th St Ste F	Grover Beach Grover Beach	93433-1812 -120.6 93433-2866 -120.6		0	<2 <2	At least 65 kW 1 At least 65 kW 1	N
	64-42 06		Quota Intl Atscdero Chrtble Tr	1606 W Grand Ave	Grover Beach	93433-2229 -120.6		0	<2	At least 65 kW 1	N
	64-43 06		Black Gold Cooperative Lib Sys	391 Front St Ste F	Grover Beach		0592 35.125086 0	0	<2	At least 65 kW 1	N
	64-44 06 64-45 06		Grover Beach Community Library Baney Corporation	240 N 9th St 651 Five Cities Dr	Grover Beach Pismo Beach	93433-2124 -120.6 93449-4099 -120.6	9946 35.122885 0 9731 35.134402 0	0	<2	At least 65 kW 1 At least 65 kW 1	N
	64-45 06		County of San Luis Obispo	1001 Pacific Blvd	Oceano	93445-9635 -120.6		0	<2	At least 65 kW 1 At least 65 kW 1	N
	64-47 06		Grover Beach Motel	123 N 13th St	Grover Beach		5471 35.121392 0	0	<2	At least 65 kW 1	N
	64-48 06 64-49 06		Oxford Suites Pismo Beach Vacation Rentals	651 Five Cities Dr 935 W Grand Ave Ste 101	Pismo Beach Grover Beach	93449-4099 -120.6 93433-2135 -120.6		0	<2	At least 65 kW 1 At least 65 kW 1	N
	64-50 06		Sky River Rv Inc	444 S Dolliver St	Pismo Beach	93449-2910 -120.6		0	<2 <2	At least 65 kW 1	N
	64-51 06		Arroyo Arts	191 S Oak Park Blvd Ste 4	Grover Beach	93433-2265 -120.6	9019 35.120818 0	0	<2	At least 65 kW 1	N
	64-52 06		Central Coast Exploration Stn	867 Ramona Ave	Grover Beach	93433-2113 -120.6		0	<2	At least 65 kW 1	N
	64-53 06 64-54 06		Central Coast Western Indian San Luis Obispo RR Museum	965 N 6th St 141 Grandview Dr	Grover Beach Grover Beach	93433-1346 -120.6 93433-1339 -120.6		0	<2	At least 65 kW 1 At least 65 kW 1	N
	64-55 06		Systems & Marketing Solution	191 S Oak Park Blvd Ste 7	Grover Beach	93433-2265 -120.6		0	<2	At least 65 kW 1	N
	64-56 06		Tim Pacheco	1511 Ramona Ave B	Grover Beach	93433-2221 -120.6		0	<2	At least 65 kW 1	N
	64-57 06 64-58 06		United States Postal Service A J Spurs Inc	917 W Grand Ave 1760 El Camino Real	Grover Beach Grover Beach	93433-9998 -120.6 93433-1411 -120.6		0	<2 <2	At least 65 kW 1 At least 65 kW 1	N
	64-59 06		Best Lovin Bbq & Grill LLC	1572 W Grand Ave	Grover Beach	93433-2261 -120.6		0	<2	At least 65 kW 1	N
	64-60 06		Dennys Inc	611 Five Cities Dr	Pismo Beach	93449-4099 -120.6		0	<2	At least 65 kW 1	N
	64-61 06 64-62 06		Dougboys Pizzeria Fattes Pizzas	1800 E Grand Ave 1741 W Grand Ave Ste D	Grover Beach Grover Beach	93433-5223 -120.6 93433-4216 -120.6		0	<2	At least 65 kW 1 At least 65 kW 1	N
	64-63 06		Fins	25 W Grand Ave	Grover Beach	93433-1934 -120.6		0	<2	At least 65 kW 1	N
	64-64 06		Golden Gong Restaurant	1591 W Grand Ave	Grover Beach	93433-2254 -120.6		0	<2	At least 65 kW 1	N
	64-65 06		Grand Deli Harry Mason Restaurant Corp	1187 W Grand Ave 581 Five Cities Dr	Grover Beach Pismo Beach	93433-2149 -120.6 93449-3005 -120.6		0	<2 <2	At least 65 kW 1 At least 65 kW 1	N
	64-67 06		Jalapenos Mexican Restaurant	1010 W Grand Ave	Grover Beach	93433-4108 -120.6		0	<2		N
	64-68 06		Jersey Mikes Subs	1540 E Grand Ave Ste B	Arroyo Grande	93420-2445 -120.6		0	<2	At least 65 kW 1	N
	64-69 06 64-70 06		John Steel Juanitas Home Made Mexic	1511 W Grand Ave 350 W Grand Ave	Grover Beach Grover Beach	93433-2226 -120.6 93433-1941 -120.6		0	<2	At least 65 kW 1 At least 65 kW 1	N
	64-71 06		Kenneth Chiang Kou Pu	1591 W Grand Ave	Grover Beach	93433-2254 -120.6		0	<2	At least 65 kW 1	N
	64-72 06	64 Restaurant or café	La Pizza Senza Glutenata	1800 E Grand Ave Ste N	Grover Beach	93433-5222 -120.6	0879 35.120803 0	0	<2	At least 65 kW 1	N
	64-73 06		Lilbits Cafe Little Caesars	151 N 7th St 1530 E Grand Ave Ste A	Grover Beach Arrovo Grande	93433-2046 -120.6 93420-2406 -120.6	2878 35.121754 0 6817 35.120984 0	0	<2	At least 65 kW 1 At least 65 kW 1	N
	64-75 06		Los Berros Market Deli & Cafe	380 Dover CT	Grover Beach	93433-2588 -120.6		0	<2	At least 65 kW 1	N
	64-76 06	64 Restaurant or café	Margarita Oregon	967 W Grand Ave	Grover Beach	93433-2135 -120.6	9178 35.121584 0	0	<2	At least 65 kW 1	N
	64-77 06 64-78 06		Mongos Saloon & Coffee Bar	359 W Grand Ave 1771 W Grand Ave	Grover Beach	93433-1940 -120.6 93433-2230 -120.6		0	<2	At least 65 kW 1 At least 65 kW 1	N
	64-78 06 64-79 06		Orcutt Burgers Pizza Express Grover Beach	1771 W Grand Ave 960 W Grand Ave	Grover Beach Grover Beach	93433-2230 -120.60 93433-2121 -120.60		0		At least 65 kW 1 At least 65 kW 1	N
	64-80 06	64 Restaurant or café	Rendezvous	940 Ramona Ave	Grover Beach	93433-2155 -120.6	9534 35.122383 0	0	<2	At least 65 kW 1	N
	64-81 06 64-82 06		Rib Line By Beach Ruby Picilino	228 W Grand Ave 1550 W Grand Ave	Grover Beach	93433-1939 -120.6 93433-2235 -120.6	8636 35.121756 0 2163 35.120959 0	0	<2	At least 65 kW 1 At least 65 kW 1	N
	64-82 06		Ruby Picilino S & M Restaurant Inc	1550 W Grand Ave 1773 W Grand Ave	Grover Beach Grover Beach	93433-2235 -120.6		0	<2 <2	-	N
	64-84 06	64 Restaurant or café	Sams Giant Manhattan Pizza	1514 W Grand Ave	Grover Beach	93433-2209 -120.6	2626 35.120981 0	0	<2	At least 65 kW 1	N
	64-85 06		Starbucks Corporation	1421 E Grand Ave Ste A2	Arroyo Grande	93420-2423 -120.6		0	<2	At least 65 kW 1	N
	64-86 06 64-87 06		Station Grill Subway Restaurant	170 W Grand Ave Ste 101 1427 E Grand Ave	Grover Beach Arroyo Grande	93433-1960 -120.6 93420-2423 -120.6		0		At least 65 kW 1 At least 65 kW 1	N
	64-88 06		Sugar Rush Candy Buffets	1385 ATL Cy Ave APT 104	Grover Beach	93433-3433 -120.		0		At least 65 kW 1	N
	64-89 06		Surfside Deli	191 S Oak Park Blvd Ste 1	Grover Beach	93433-2265 -120.6		0	<2	At least 65 kW 1	N
	64-90 06 64-91 06		Sushi Kokku Taco Bell	581 Five Cities Dr 1500 W Grand Ave	Pismo Beach Grover Beach	93449-3005 -120.6 93433-2209 -120.6		0	<2 <2	At least 65 kW 1 At least 65 kW 1	N
	64-92 06		Taco Rico	1800 E Grand Ave Ste M	Grover Beach	93433-5222 -120.6		0	<2		N
	64-93 06		Tacos Acapulco	1051 S 13th St Ste E	Grover Beach	93433-3105 -120.6		0	<2	At least 65 kW 1	N
	64-94 06		Taqueria Guerrero No 2 Thai Dheva	1800 E Grand Ave 501 W Grand Ave	Grover Beach Grover Beach	93433-5223 -120.6 93433-2031 -120.6	0879 35.120803 0 5011 35.121866 0	0	<2	At least 65 kW 1 At least 65 kW 1	N
	64-95 06		Umi Teriyaki & Sushi	1319 W Grand Ave	Grover Beach	93433-2031 -120.6		0	<2	At least 65 kW 1 At least 65 kW 1	N
	64-97 06	64 Restaurant or café	Yamato Japanese Restaurant	1741 W Grand Ave Ste E	Grover Beach		9923 35.121129 0	0	<2	At least 65 kW 1	N
92 -120.649 35.4623 2 4	64-98 06 92-1 05		Vons Companies Inc Dks Donuts Inc	1758 W Grand Ave 8550 El Camino Real Ste A	Grover Beach Atascadero	93433-2293 -120.60 93422-5397 -120.60		0	<2	At least 65 kW 1 At least 65 kW 1	N
	92-1 05		Sister Cakes	11195 El Cmino Real APT A	Atascadero	93422-3397 -120.6		0	<2	At least 65 kW 1	N
	92-3 09	92 Bank	Golden 1	8727 El Camino Real	Atascadero	93422-5368 -120.6	3296 35.472022 0	0		At least 65 kW 1	N
	92-4 05		US Bank National Association	189 Niblick Rd 9965 El Camino Real Ste B	Paso Robles	93422-5215 -120.6 93422-5562 -120.6		0	<2	At least 65 kW 1	N
	92-5 09		Central Coast Zoo Society Abybella Boutique	9965 El Camino Real Ste B 8803 Arcade Rd	Atascadero Atascadero	93422-5562 -120.6 93422-5303 -120.6		0		At least 65 kW 1 At least 65 kW 1	N
	92-7 09	Drug store	Albertsons LLC	8200 El Camino Real	Atascadero	93422-5215 -120.6	4765 35.474706 0	0	<2	At least 65 kW 1	N
	92-8 09		CVS Pharmacy Inc	8320 El Camino Real	Atascadero	93422-5354 -120.6		0	<2	At least 65 kW 1	N
	92-9 09		Longs Drug Stores Cal Inc New Albertsons Inc	8320 El Camino Real 8200 El Camino Real	Atascadero Atascadero	93422-5354 -120.6 93422-5215 -120.6		0	<2 <2	At least 65 kW 1 At least 65 kW 1	N
	92-11 09		Jerrys Wholesale Car Stereos	8396 El Camino Real	Atascadero	93422-5357 -120.6		0	<2	At least 65 kW 1	N
	92-12 09		Colony Carpets	8305 El Camino Real	Atascadero	93422-5323 -120.6		0	<2	At least 65 kW 1	N
	92-13 09		Everrest Inc Steam Pro Carpet Care	8784 Plata Ln Unit B 8981 La Linia Ave Ste A	Atascadero Atascadero	93422-5340 -120.6 93422-5322 -120.6		0		130 to 195 kW 1 At least 65 kW 1	Y N
		Gas station	Atascadero Shell Food Mart	9155 San Gabriel Rd	Atascadero	93422-5855 -120.6		0		At least 65 kW 1	N
	52-15 03										

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N N V N 0 14 0 Data not yet filled Medium N A 64 C N Y N N 0 14 23 0 Data not yet filled Medium N A 64 C N Y N N 0 14 0 Data not yet filled Medium N 64 C N Y N N 0 14 33 0 Data not yet filled Medium N 64 C N Y N N 0 14 33 0 Data not yet filled Medium N 64 C N Y N N 0 14 33 0 Data not yet filled Medium N 64 C N Y N N 0 14 33 0 Data not yet filled Short <y< td=""> N 92 C <td< td=""><td>N</td><th>Y</th><td></td><td></td><td>N</td><td>0</td><td></td><td></td><td></td><td></td><td></td><td>Medium</td><td>Y</td><td>N</td><td></td><td>0</td></td<></y<>	N	Y			N	0						Medium	Y	N		0
N Y N O 14 33 O Data not yet filled Medium Y N 64 C N N N N 0 14 0 0 Data not yet filled Medium N N 64 C N Y N N 0 14 0 0 Data not yet filled Medium N 64 C N Y N 0 14 33 0 Data not yet filled Medium N 64 C N Y N 0 14 33 0 Data not yet filled Medium N 64 C N Y N 0 14 33 0 Data not yet filled Medium N 64 C N Y N 0 14 33 0 Data not yet filled Short N 92 C N Y N	N	N			N	0	14	0	0			Medium	N	N	64	0
N N N O 14 0 Data not yet filled Medium N N 64 C N Y N O 14 33 O Data not yet filled Medium Y N 64 C N Y Y N O 14 67 Data not yet filled Medium Y N 64 C N Y Y N O 14 33 O Data not yet filled Medium Y N 64 C N Y N O 14 33 O Data not yet filled Medium Y N 64 C N Y N N 0 14 33 O Data not yet filled Short Y N 22 C N Y N N 0 14 33 O Data not yet filled Short Y N 22 C N Y N 0	N				N	0	14	33	0			1				0
N Y N O 34 33 O Data not yet filled Medium N 64 C N Y Y N 0 14 67 O Data not yet filled Medium N 64 C N Y N 0 14 33 O Data not yet filled Medium N 64 C N Y N 0 14 33 O Data not yet filled Short N 92 C N Y N N 0 14 33 O Data not yet filled Short N 92 C N Y N N 0 14 33 O Data not yet filled Short <y< td=""> N 92 C N Y N 0 14 33 O Data not yet filled Short<y< td=""> N 92 C N Y N <t< td=""><td></td><th></th><td></td><td></td><td>N</td><td></td><td>14</td><td></td><td></td><td></td><td></td><td>1</td><td></td><td></td><td></td><td>0</td></t<></y<></y<>					N		14					1				0
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N Y N O 14 33 O Data not yet filled Medlam Y N 64 C N Y N N 0 14 33 O Data not yet filled Short Y N 62 C N Y N N 0 14 33 O Data not yet filled Short Y N 62 C N Y N N 0 14 33 O Data not yet filled Short Y N 62 C N Y N N 0 14 33 O Data not yet filled Short N 92 C N Y N N 0 14 33 O Data not yet filled Iong N 92 C N Y N N 0 14 33 O Data not yet filled Short <y< td=""> N<td></td><th></th><td></td><td></td><td>N</td><td></td><td>14</td><td>67</td><td></td><td></td><td></td><td>-</td><td></td><td></td><td></td><td>0</td></y<>					N		14	67				-				0
N Y N O 14 33 O Data not yet filled Short Y N 92 CC N Y N O 14 33 O Data not yet filled Short Y N 92 CC N Y N O 14 33 O Data not yet filled Short Y N 92 CC N Y N O 14 33 O Data not yet filled Short Y N 92 CC N Y N O 14 33 O Data not yet filled Short Short N 92 CC N Y N O 14 33 O Data not yet filled Iong N 92 CC N Y N O 14 33 O Data not yet filled Short <y< td=""> N 92 CC N</y<>					N	0			0			1				0
N Y N O 14 23 O Data not yet filled Short Y N 92 C N Y N O 14 33 O Data not yet filled Short Y N 92 C C N Y N O 14 33 O Data not yet filled Short Y N 92 C C N Y N N 0 14 33 O Data not yet filled Long Y N 92 C C N Y N N 0 14 33 O Data not yet filled Long Y N 92 C C N Y N N 0 14 33 O Data not yet filled Long Y N 92 C C N Y N N 0 14 33					N	0	14	33	0			1				0
N Y N 0 14 33 0 Data not yet filled Short Y N 02 C N Y N 0 14 33 0 Data not yet filled Short Y N 02 C <																0
N Y N O 14 33 O Data not yet filed Short Y N 92 C N Y N O 14 33 O Data not yet filed Long Y N 92 C C N Y N O 14 33 O Data not yet filed Long Y N 92 C C N Y N N 0 14 33 O Data not yet filed Medlum Y N 92 C N Y N N 0 14 33 O Data not yet filed Short Y N 92 C N Y N N 0 14 33 O Data not yet filed Short <y< td=""> N 92 C N Y N N 0 14 33 O Data not yet filed Medlum</y<>												1				0
N Y N O 14 33 O Data not yet filled Long Y N O2 C N Y N O 14 33 O Data not yet filled Long Y N O2 C C N Y N O 14 33 O Data not yet filled Medium Y N O2 C C N Y N O 14 33 O Data not yet filled Short Y N O2 C C N Y N O 14 33 O Data not yet filled Short Y N O2 C C N Y N O 14 33 O Data not yet filled Short Y N O2 C C N Y N O 14 33 O Data not yet filled Short Y N O2 C C												1				0
N Y N O 14 33 O Data not yet filled Medium Y N 92 C N Y N O 14 33 O Data not yet filled Short Y N 92 C C N Y N O 14 33 O Data not yet filled Short Y N 92 C C N Y N O 14 33 O Data not yet filled Short Y N 92 C C N Y N O 14 33 O Data not yet filled Short Y N 92 C C N Y N O 14 33 O Data not yet filled Short Y N 92 C N Y N O 14 33 O Data not yet filled Medium N <td></td> <th></th> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>1 C C</td> <td></td> <td></td> <td></td> <td>0</td>												1 C C				0
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N Y N O 14 33 O Data not yet filled Short Y N 62 C N Y N N 0 14 33 O Data not yet filled Short Y N 62 C <																0
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N Y N O 14 33 O Data not yet filled Short Y N 92 CC N Y N N 0 14 33 O Data not yet filled Medium Y N 92 CC N Y N N 0 14 33 O Data not yet filled Medium Y N 92 CC N Y N N 0 14 33 O Data not yet filled Medium Y N 92 CC N Y N N 0 14 33 O Data not yet filled Medium Y N 92 CC N Y N N 0 14 33 O Data not yet filled Medium Y N 92 CC N Y N N 0 14 33 O Data not yet filled Medium Y N 92												-				0
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N Y N N 0 14 33 0 Data not yet filled Medium Y N 92 CC N Y N N 0 71 33 0 Data not yet filled Medium Y N 92 22 N Y N 0 14 33 0 Data not yet filled Medium Y 92 22			-									1 C C				
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	N	Y	I	N	N	0	14	33	0	Data not yet filled	L	Short	Y	N	92	0

						92-16		Grocery or convenience store	A-Town Deli	8300 El Camino Real Ste 3	Atascadero	93422-5358 -120.654765		0	0		At least 65 kW	1		N	
						92-17 92-18		Grocery or convenience store	Paloma Creek Mini Mart Spencers Fresh Markets	11250 Viejo Camino 8665 El Camino Real	Atascadero Atascadero	93422-6012 -120.639242 93422-5329 -120.65339		0	0	<2	At least 65 kW At least 65 kW	1		N	
				_	_	92-18		Health food store	Naturalypure Health Pdts LLC	8793 Plata Ln	Atascadero	93422-5338 -120.653902		0	0	<2	At least 65 kW	1		N	
						92-20		Library	Logan Library	10333 El Camino Real	Atascadero		35.461055	0	0		At least 65 kW	1		N	
						92-21	092	Lodging	Guest House Grill LLC	8783 El Camino Real	Atascadero	93422-5331 -120.653211	35.47182	0	0	<2	At least 65 kW	1		N	
						92-22		Lodging	H & S Hospitality LLC	9010 W Front Rd	Atascadero	93422-5403 -120.652173		0	0	<2	At least 65 kW	1		N	
						92-23		Lodging	Motel 6 Operating LP	9400 El Camino Real	Atascadero	93422-5514 -120.650075		0	0	<2	At least 65 kW	1		N	
						92-24 92-25		Medical office Medical office	Dawn E Santos Frances M Saponaro	10333 El Camino Real 10333 El Camino Real	Atascadero Atascadero	93422-5808 -120.644219 93422-5808 -120.644219		0	0	<2 <2	At least 65 kW At least 65 kW	1		N	
						92-25		Medical office	Lee Psychiatric Medical Gr	9330 Maduro Ln APT 8	Atascadero	93422-5838 -120.638381		0	0	<2	At least 65 kW	1		N	
						92-27		Medical office	Vishkautsan Polina Dvm	9575 El Camino Real	Atascadero	93422-5577 -120.648788	35.466352	0	0	<2	At least 65 kW	1		N	
						92-28		Museum, performing arts, or art gallery	Atascadero Art Assoc		Atascadero	93423-3423 -120.64729		0	0	<2	At least 65 kW	1		N	
						92-29	092	Post office	United States Postal Service	9800 El Camino Real	Atascadero	93422-9990 -120.647114	35.464014	0	0	<2	At least 65 kW	1		N	
						92-30		Restaurant or café	Atascadero State Hosp Canteen	10333 El Camino Real	Atascadero	93422-5808 -120.644219		0	0	<2	At least 65 kW	1		N	
						92-31		Restaurant or café	Bravo Pizza Plus	8731 El Camino Real	Atascadero	93422-5331 -120.65329	35.472007	0	0	<2	At least 65 kW	1		N	
						92-32		Restaurant or café	Burger King Davids Kitchen	8304 El Camino Real 9975 El Camino Real	Atascadero Atascadero	93422-5354 -120.654749 93422-5572 -120.646265		0	0	<2	At least 65 kW At least 65 kW	1		N	
						92-33 92-34		Restaurant or café Restaurant or café	Davids Kitchen Desi Enterprises Inc	8789 El Camino Real	Atascadero	93422-5331 -120.653202		0	0		At least 65 kW	1		N	
						92-35		Restaurant or café	Dominos Pizza	8307 El Camino Real	Atascadero	93422-3422 -120.654435		0	0	<2	At least 65 kW	1		N	
						92-36		Restaurant or café	Garcias Restaurant	9550 El Camino Real	Atascadero	93422-5565 -120.6494	35.466494	0	0		At least 65 kW	1		N	
						92-37	092	Restaurant or café	Jack In Box	9000 W Front Rd	Atascadero	93422-5403 -120.652329	35.466183	0	0	<2	At least 65 kW	1		N	
						92-38		Restaurant or café	Nardonnes La Famiglia Pizzeria	8501 El Camino Real	Atascadero	93422-5367 -120.653743	35.473095	0	0	<2	At least 65 kW	1		N	
						92-39		Restaurant or café	Outlaws Bar & Grill Inc	9850 E Front Rd	Atascadero	93422-3422 -120.649147		0	0	<2	At least 65 kW	1		N	
						92-40 92-41		Restaurant or café Restaurant or café	Pedros Don Mexican Food Rest Pizza Express	8550 El Camino Real 8220 El Camino Real	Atascadero Atascadero	93422-5397 -120.653893 93422-5215 -120.654765		0	0	<2	At least 65 kW At least 65 kW	1		N	
						92-41		Restaurant or café	Players Pizza & Pasta	8845 El Camino Real	Atascadero	93422-5215 -120.652788		0	0	<2 <2	At least 65 kW	1		N	
						92-43		Restaurant or café	Royal Restaurants Group Inc	8789 El Camino Real	Atascadero	93422-5331 -120.653202		0	0	<2	At least 65 kW	1		N	
						92-44	092	Restaurant or café	Surf Mamma	9316 Bocina Ln	Atascadero	93422-6857 -120.635667	35.455293	0	0	<2	At least 65 kW	1		N	
						92-45	092	Restaurant or café	Taco Stand	9965 El Camino Real	Atascadero	93422-5562 -120.646456	35.46372	0	0	<2	At least 65 kW	1		N	
						92-46		Supermarket	Grocery One Inc	8360 El Camino Real	Atascadero	93422-5324 -120.65452		0	0	<2	At least 65 kW	1		N	
	100.000	25.677				92-47		Supermarket	Haggen Inc	8200 El Camino Real	Atascadero	93422-5215 -120.654765		0	0	<2	At least 65 kW	1		N	
122	-120.687	35.6254	2	3		122-1		Gas station	Paso Robles Unocal 76 Bpo Paso Robles Lodges 2364	1441 Spring St 1420 Park St	Paso Robles Paso Robles	93446-2143 -120.691817 93446-2160 -120.690148	35.629624	0	0	6+	At Least 390 kW At Least 390 kW		1	Y	
						122-2		Lodging	Htl Cheval LLC	1420 Park St 1021 Pine St	Paso Robles Paso Robles	93446-2160 -120.690148 93446-2537 -120.688887	35.629119	0	0	2 - 3		1	1	Y	
						122-4		Lodging	Paso Robles Inn	1103 Spring St	Paso Robles	93446-3446 -120.692101		2 Sun Country, Tesla Destination	0	<2	At least 65 kW	1		N	
						122-5	122	Medical office	Dr Gwen Pillow	1502 Spring St Ste B	Paso Robles	93446-2168 -120.691503	35.629916	0	0	6+	At Least 390 kW		1	Y	
						122-6		Post office	United States Postal Service	800 6th St	Paso Robles	93446-9990 -120.688941		0	0	6+	At Least 390 kW		1	Y	
						122-7		Railway station	Paso Robles Park and Ride	624 Pine St	Paso Robles	93446-3446 -120.688042		2 ChargePoint	0		At least 65 kW	1		N	
						122-8		Restaurant or café Restaurant or café	Dantes Benzina LLC Kobys Kitchen Inc	1401 Park St Ste 105	Paso Robles Paso Robles	93447-3447 -120.68928 93446-2173 -120.69047		0	0	6+	At Least 390 kW		1	Y	
				_	_	122-9		Restaurant or café	La Casa De Amayah Mexican Rest	1401 Park St Ste 105 1510 Park St	Paso Robles	93446-2173 -120.69047 93446-2162 -120.690232	35.628956 35.630082	0	0	6+	At Least 390 kW At Least 390 kW		1	Y	
						122-11		Restaurant or café	Losrobles Cafe	1420 Spring St	Paso Robles	93446-2144 -120.691446		0	0		At Least 390 kW		1	Y	
						122-12		Restaurant or café	Pizza Planet	717 6th St	Paso Robles	93446-2871 -120.690234		0	0	6+	At Least 390 kW		1	Y	
						122-13	3 122	Restaurant or café	Restaurant 4 Hermanos	709 6th St	Paso Robles	93446-2871 -120.690234	35.620627	0	0	6+	At Least 390 kW		1	Y	
						122-14	1 122	Tourist attraction or recreation site	Herman Story Winery	1227 Paso Robles Street	Paso Robles	93446-3446 -120.685878	35.62736	2 Non-networked	0	2 - 3	130 to 195 kW	1		Y	
216	-120.278	34.7427	1 1	1		216-1		Bakery	Bob's Well Bread Bakery	550 Bell Street	Los Alamos	93440-3440 -120.276886		2 Non-networked, Tesla Destination	0		At least 65 kW	1		N	
						216-2 216-3		Gas station Lodging	Los Alamos Chevron Inc Skyview Motel	605 Bell St 9150 Highway 101	Los Alamos	93440-3440 -120.274873 93440-3440 -120.272743		0	0	<2	At least 65 kW At least 65 kW	1		N	
					-	216-4		Restaurant or café	Cafe Quackenbush	458 Bell St	Los Alamos	93440-3440 -120.27841		0	0	<2	At least 65 kW	1		N	
				_		216-5		Restaurant or café	Charlies	97 Den	Los Alamos	93440-3440 -120.283221		0	0	<2		1		N	
						216-6	216	Restaurant or café	Ghostriders Tavern	550 Bell	Los Alamos	93440-3440 -120.276882	34.743843	2	0	<2	At least 65 kW	1		N	
						216-7	216	Restaurant or café	Los Alamos Valley Mens Club	429 Leslie	Los Alamos	93440-3440 -120.27933		0	0	<2	At least 65 kW	1		N	
233	-121.083	35.5637	1 1	1		233-1		Bakery	French Corner Bakery	2214 Main St	Cambria	93428-3018 -121.082455		0	0	<2	At least 65 kW	1		N	
						233-2 233-3		Bank Bank	Heritage Oaks Bank Rabobank National Association	2255 Main St 1070 Main St	Cambria	93428-3025 -121.082387 93428-2822 -121.095066	35.564189	0	0		At least 65 kW	1		N	
					-	233-3			Gowa Creative Arts	4009 West St	Cambria	93428-2822 -121.095088		0	0		At least 65 kW At least 65 kW	1		N	
_						233-5	233	Clothing store Clothing store			Cambria	93428-3016 -121.083374	35.563623	0	0	<2 <2	At least 65 kW	1		N	
						233-5 233-6		Clothing store Clothing store	Marybels Clothes & Accessories Ocean Heir	2106 Main St 2024 Main St	Cambria	93428-3016 -121.083374 93428-3014 -121.08394		-	0			1		N	
						233-6 233-7	233	Clothing store	Marybels Clothes & Accessories	2106 Main St 2024 Main St 2336 Main St Ste A		93428-3014 -121.08394 93428-3404 -121.08133	35.563507 35.564261	0		<2	At least 65 kW At least 65 kW At least 65 kW	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			
						233-6 233-7 233-8	233 233 233 233	Clothing store Clothing store Clothing store Clothing store	Marybels Clothes & Accessories Ocean Heir Place Porte Hse Gilery of Wrable Art	2106 Main St 2024 Main St 2336 Main St Ste A 4015 West St	Cambria Cambria Cambria	93428-3014 -121.08394 93428-3404 -121.08133 93428-3024 -121.083355	35.563507 35.564261 35.562842	0 0	0	 2 2 2 2 	At least 65 kW At least 65 kW At least 65 kW At least 65 kW	1		N N N	
						233-6 233-7 233-8 233-9	233 233 233 233 233	Clothing store Clothing store Clothing store Clothing store Drug store	Marybels Clothes & Accessories Ocean Heir Place Porte Hse Gilery of Wrable Art Cambria Drug & Gifts	2106 Main St 2024 Main St 2336 Main St Ste A 4015 West St 2222 Main St	Cambria Cambria Cambria Cambria	93428-3014 -121.08394 93428-3404 -121.08133 93428-3024 -121.083355 93428-3018 -121.082455	35.563507 35.564261 35.562842 35.563878	0 0 0 0 0 0	0 0 0 0 0	2 2 2 2 2 2 2 2	At least 65 kW At least 65 kW At least 65 kW At least 65 kW At least 65 kW	1 1 1 1 1 1		N N N N	
						233-6 233-7 233-8	233 233 233 233 233 233 233 233 233	Clothing store Clothing store Clothing store Clothing store Drug store Existing Level 2, not elsewhere classified	Marybels Clothes & Accessories Ocean Heir Place Porte Hse Gilery of Wrable Art	2106 Main St 2024 Main St 2336 Main St Ste A 4015 West St 2222 Main St 2950 Burton Dr Cambria	Cambria Cambria Cambria	93428-3014 -121.08394 93428-3404 -121.08133 93428-3024 -121.083355	35.563507 35.564261 35.562842 35.563878	0 0 0	0	<2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2	At least 65 kW At least 65 kW	1 1 1 1 1 1 1		N N N	
						233-6 233-7 233-8 233-9 233-10	233 233 233 233 233 233 233 233 233 233 233 233 233	Clothing store Clothing store Clothing store Clothing store Drug store	Marybels Clothes & Accessories Ocean Heir Piace Porte Hse Gliery of Wrable Art Cambria Drug & Gifts Cambria Pine	2106 Main St 2024 Main St 2336 Main St Ste A 4015 West St 2222 Main St	Cambria Cambria Cambria Cambria Cambria	93428-3014 -121.08394 93428-3404 -121.08133 93428-3024 -121.083355 93428-3018 -121.082455 93428-3018 -121.082455 93428-3028 -121.080545	35.563507 35.564261 35.562842 35.563878 35.558788 35.558788	0 0 0 0 0 0	0 0 0 0	2 2 2 2 2 2 2 2	At least 65 kW At least 65 kW At least 65 kW At least 65 kW At least 65 kW	1 1 1 1 1 1 1 1 1		N N N N	
						233-6 233-7 233-8 233-9 233-10 233-10 233-11 233-12	233 233 233 233 233 233 233 233 233 233 233 233 233	Clothing store Clothing store Clothing store Clothing store Drug store Existing Level 2, not elsewhere classified Furniture, home appliances	Marybels Clothes & Accessories Ocean Heir Place Porte Hse Gileny of Wrable Art Cambria Drug & Gifts Cambria Pine Personal Touch Woodworks	2106 Main St 2024 Main St 2336 Main St Ste A 4015 West St 2222 Main St 2950 Burton Dr Cambria 2419 Village Ln Ste C	Cambria Cambria Cambria Cambria Cambria Cambria	93428-3014 -121.08394 93428-3404 -121.08133 93428-3024 -121.08133 93428-3028 -121.08355 93428-3418 -121.082455 93428-3428 -121.080154 93428-3416 -121.07981	35.563507 35.564261 35.562842 35.563878 35.558788 35.56221 35.566836 25.55320	0 0 0 0 0 0	0 0 0 0 0	<2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2	At least 65 kW At least 65 kW	1 1 1 1 1 1 1 1 1 1 1 1 1		N N N N N	
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					233-55	233	Restaurant or café	Mike Molnar	841 Main St	Cambria	93428-2828	-121.098603	35.566455	0	0		<2	At least 65 kW	1		N	_
					233-56	233	Restaurant or café	Oscars Restaurant	4090 Burton Dr	Cambria	93428-3021	-121.082222	35.563185	0	0		<2	At least 65 kW	1		N	
					233-57	233	Restaurant or café	Pizza Garden	2114 Main St	Cambria	93428-3016	-121.08332	35.563634	0	0		<2	At least 65 kW	1		N	
					233-58	233	Restaurant or café	Redwood Cafe	2094 Main St	Cambria	93428-3014	-121.083456	35.563605	0	0		<2	At least 65 kW	1		N	
					233-59	233	Restaurant or café	Robishan Inc	4095 Burton Dr	Cambria	93428-3001	-121.082546	35.563112	0	0		<2	At least 65 kW	1		N	
					233-60	233	Restaurant or café	Sows Ear Cafe Inc	2248 Main St	Cambria	93428-3018	-121.08209	35.563985	0	0		<2	At least 65 kW	1		N	
					233-61	233	Restaurant or café	Tea Cozy	4286 Bridge St	Cambria	93428-2102	-121.081602	35.56495	1	0		<2	At least 65 kW	1		N	
					233-62	233	Restaurant or café	Woodies Pizza & Subs	1069 Main St	Cambria	93428-2821	-121.094848	35.563936	0	0		<2	At least 65 kW	1		N	
					233-63	233	Tourist attraction or recreation site	Joslyn Adult Recreation Center	950 Main St	Cambria	93428-2820	-121.097434	35.565282	0	0		<2	At least 65 kW	1		N	
283	-120.191	34.612	24 1	1	283-1	283	College or university	Santa Barbara Pipetrades Train	93 Thomas Rd	Buellton		-120.187254		0	0		4 - 5	260 to 325 kW		1	Y	
					283-2	283	Existing DCFC, not elsewhere classified	Buellton Supercharger	555 McMurray Road	Buellton	93427-3427	-120.188484	34.614552	0	1	Tesla Supercharger	6+	At Least 390 kW		1	Y	
					283-3	283	Furniture, home appliances	Stewarts Woodworking Inc	83 Thomas Rd	Buellton	93427-9657	-120.187334	34.620986	0	0		6+	At Least 390 kW		1	Y	
					283-4	283	Government building	Buellton City Hall	331 Park St Buellton	Buellton	93427-3427	-120.195778	34.614735	1	ChargePoint 0		<2	At least 65 kW	1		N	
					283-5		Library	Buellton Branch Library	140 W Highway 246	Buellton		-120.196021			0		2 - 3		1		Y	
					283-6	283	Lodging	Days Inn Windmill	114 E W Hwy 246	Buellton	93427-3427	-120.196021	34.614151	1	0		2 - 3	130 to 195 kW	1		Y	
					283-7		Lodging	Santa Ynez Valley Marriott	555 McMurray Rd	Buellton		-120.18856		0	1	ChargePoint	6+	At Least 390 kW		1	Y	i.
					283-8	283	Movie theater	Parks Plaza Theatre	515 McMurray Rd	Buellton		-120.187886		0	0		6+	At Least 390 kW		1	Y	
					283-9	283	Post office	United States Postal Service	140 W Highway 246	Buellton	93427-9990	-120.196021	34.614151	1	0		2 - 3	130 to 195 kW	1		Y	
284	-119.679	34.945	57 1	1	284-1	_	Grocery or convenience store	C & H Market	4859 Primero St	New Cuyama		-119.688483		0	0		<2	At least 65 kW	1		N	
					284-2	284	Post office	United States Postal Service	4855 Primero St	New Cuyama		-119.688354		0	0		<2	At least 65 kW	1		N	-
300	-120.698	35.695	56 1	1	300-1	300	Grocery or convenience store	Magnolia Produce	35 Wellsona Rd	Paso Robles	93446-7642	-120.701243	35.695817	0	0		<2	At least 65 kW	1		N	
					300-2	300	Lodging	Paso Rbles R V Rnch Campground	398 Exline Rd	Paso Robles		-120.699591		0	0		<2	At least 65 kW	1		N	
					300-3	300	Lodging	Vines Rv Resort	88 Wellsona Rd	Paso Robles	93446-7642	-120.696348	35.695975	0	0		<2	At least 65 kW	1		N	

													_
N	N	N	N	0	14	0	0	Data not yet filled	Medium	N	N	233	0
N	N	N	N	0	14	0	0	Data not yet filled	Medium	N	N	233	0
N	N	N	N	0	14	0	0	Data not yet filled	Medium	N	N	233	
N	N	N	N	0	14	0	0	Data not yet filled	Medium	N	N	233	
N	N	N	N	0	14	0	0	Data not yet filled	Medium	N	N	233	
N	N	N	N	0	14	0	0	Data not yet filled	Medium	N	N	233	
N	N	N	N	0	14	0	0	Data not yet filled	Medium	N	Y	233	
N	N	N	N	0	14	0	0	Data not yet filled	Medium	N	N	233	
N	N	N	N	0	14	0	0	Data not yet filled	Medium	N	N	233	
N	N	N	N	0	71	0	0	Data not yet filled	Long	N	N	283	
N	N	N/A	N	0	71	0	0	Data not yet filled	N/A	N	Y	283	
N	N	N	N	0	71	0	0	Data not yet filled	Medium	N	N	283	
N	N	N/A	N	0	14	0	0	Data not yet filled	Medium	N	Y	283	
N	N	N	N	0	71	0	0	Data not yet filled	Medium	N	Y	283	
N	N	N	N	0	71	0	0	Data not yet filled	Long	N	Y	283	
N	N	N/A	N	0	71	0	0	Data not yet filled	Long	N	Y	283	
N	N	N	N	0	71	0	0	Data not yet filled	Medium	N	N	283	
N	N	N	N	0	71	0	0	Data not yet filled	Short	N	Y	283	
N	N	N	N	0	14	0	0	Data not yet filled	Short	N	N	284	
N	N	N	N	0	14	0	0	Data not yet filled	Short	N	N	284	
N	N	N	N	0	14	0	0	Data not yet filled	Short	N	N	300	
N	N	N	N	0	14	0	0	Data not yet filled	Long	N	N	300	
N	N	N	N	0	14	0	0	Data not yet filled	Long	N	N	300	

APPENDIX D-1: Summary of Task 4 Key Conclusions

Project Purpose

EV Alliance researched issues related to fleets transition to electric vehicles (EV) and provided recommendations to accelerate adoption. On the Central Coast, very few fleets utilize EV's due to several key factors including:

- Upfront cost, both of EVs and charging infrastructure
- Lack of appropriate EV models
- Lack of familiarity with EVs and their benefits
- Reluctance to try new technologies and uncertainty about long term operational savings
- Inertia and lack of time to devote to exploring EV options

Overcoming Barriers to Fleet Electrification

The overall recommendation to accelerate adoption of EVs is to advertise benefits to fleet managers, such as the reduction in fuel and maintenance costs. Other recommendations for fleets include:

- 1. <u>Monetize Federal Tax Credits</u>: public or non-profit fleets should utilize the \$7,500 federal tax credit. Most fleets were aware of the \$2,500 California Clean Vehicle Rebate and found it easy to claim.
- 2. <u>Monetize the Low Carbon Fuel Standard (LCFS) Credits</u>: For all fleet vehicles and for public charging stations that fleet's own.
- 3. <u>Prioritize Use of Battery EV Fleets to Increase Electric Miles Traveled:</u> Assign drivers or routes an EV if traveling at least 30-60 miles per day.
- 4. <u>Include Longer-Range EVs in Fleet Deployments:</u> Invest in longer range EVs such as Chevrolet Bolts (238-mile range) and use vehicle assignments to make sure these vehicles are routinely maximized.
- 5. <u>Develop Fleet EV Mandates or "Green Fleet Policies"</u>: When public and private fleets develop fleet EV mandates or "Green Fleet Policies" they provide specificity to sustainability goals. Examples include:
 - a. The California Department of General Services goal is to purchase 25% electric light-duty fleet vehicles by 2020, and 50% by 2025, driving early EV adoption to help meet the California goal of 5 million zero emission vehicles on the road by 2030. Another example is the City of Santa Monica's administrative instruction to consider EVs first in procurement, a policy that can help agencies meet their e-fleet transition goals.

EV Alliance sent information on these goals to all fleets contacted, but it will require ongoing advocacy on the part of Electric Drive 805 and local leaders to move these goals forward.

- 6. <u>Develop comprehensive Fleet Electrification plans to provide a clear timeline and</u> <u>strategy for acquiring EVs and building out charging infrastructure.</u>
- 7. <u>Utilize Existing Incentive Programs:</u> Increase awareness and utilize incentive programs including SoCal Edison's Charge Ready program and PG&E's EV Charge Network program and local air district grant programs.

Impact of Model Availability

- Many public fleets have significant numbers of light-duty trucks. While there are currently no light-duty pick-up truck options on the market, brands like Ford, Workhorse, Havelaar, and Rivian have committed to delivering light-duty electric trucks in the early 2020s.
- Many fleet managers are hesitant to deploy vehicles from smaller start-up companies because of high pricing and uncertainty if the company will survive into future years and honor warranties.
- Lack of appropriate EV models was a large barrier for many fleets, especially in the medium and heavy-duty sectors. However, due to the California Air Resources Board's Innovative Clean Transit measures, all California transit districts will ramp up purchases of 100% EV buses by 2029.
- School and transit buses are the most mature of medium- and heavy-duty EV technologies and are a "beachhead" sector.

Lessons Learned and Next Steps

Public versus private fleets

- Private fleets were less likely to respond to initial outreach and very few fleet spreadsheets were received after conversing with private fleets.
- Large companies are primarily focused on fleet electrification in large urban centers. The smaller outposts on the Central Coast have not yet been prioritized for EV deployment.

School Bus, transit, paratransit and county fleets should be prioritized

- School districts were particularly interested to learn more from EV Alliance because of the Energy Commission Grant ARV-16-015 which aims to put hundreds of EV school buses on California's roads. Many Central Coast school districts applied for the Energy Commission funding, and several will likely receive EV buses from the solicitation.
- Research and conversations determined significant opportunity to downsize some vehicles to EV sedans for ambulatory paratransit customers, which would have significant capital and operational savings.

• To maximize electric VMT per incentive dollar expended, local counties should be prioritized for EV resources, EV-friendly policies, and EV action plans because of their large fleet vehicle count.

Workplace charging for the "employee fleet"

• Local agencies are some of the largest employers in the region. Government workers with long commutes are prime targets for switching to EVs, as they can easily harvest the operating savings of high mileage EV use.

APPENDIX D-2: Fleet Sheet Copy

See next 3 pages.

Fleet Sheet - Funding Options and Vehicles Available

Electric Vehicle Funding Opportunities

Category	Name	Sponsor	Details	Link		
	CLEAN VEHICLE REBATE PROJECT	California Air Resources Board	\$1,500 PHEV \$2,500 EV	https:// cleanvehicle rebate.org		
Light Duty	Federal Tax Credit	IRS	\$7,500 tax credit – Seller can pass to gov't agencies	https://www.fuelecono my.gov/feg/taxevb.sht ml		
	Low Carbon Fuel Standard Credits	California Air Resources Board	Fleets can sell credits	https://www.arb.ca.go v/fuels/lcfs/lcfs.htm		
	Hybrid and Zero- Emission Truck and Bus Voucher Incentive Project (HVIP)	California Air Resources Board	First Come, First Served Up to \$150,000+ \$30,000 charger	https://www.california hvip.org/		
Medium / Heavy- Duty	SLOCAPCD on-road truck grants	San Luis Obispo County Air Pollution Control District	Various programs for medium/heavy duty, contact district for more information	https://www.slocleanai r.org/community/grant s/onroadtrucks		
	Volkswagen Volkswagen Mitigation Trust	Volkswagen	\$130 million available for transit/school/ shuttle EV Buses. 50% for DACs. Available soon	https://www.arb.ca.go v/msprog/vw_info/vsi/ vw-mititrust/vw- mititrust.htm		
Transit /	CALIFORNIA AIR RESOURCES BOARD Carl Moyer Funds / AB 923 / AB 617	Air Resource Districts	-	on varies by ACMD, ing with your Air District rep		
Schools	NoLo and 5310 grants	US Department of Transportation	Can fund 80-90% costs, only for qualified vehicles	https://bit.ly/2mtjWeT, https://bit.ly/2l_OKkf9		

Available Electric Vehicles (1/2)

Cat	Model	Manufacturer	Fuel Type	Class/GVWR	Electric Range	Battery Size	Retail Price	HVIP	Currently available?	Lease option	Link
	W-15	Workhorse	PHEV	7,200 lbs	80mi	60 kWh (Panasonic Li-Ion)	\$52,000	N/A	2019-2020		http://workhorse.com/pickup/
LDVs	Bison	Havelaar	BEV					N/A	TBD		http://www.havelaarcanada.com/biso n/
Class 6		Motiv	BEV	26.000 lbs	Up to 90mi	Work/Single Unit Truck 106 / 127 kWh (Motiv EPIC)		\$80-95K			http://www.motivps.com/motivps/por
Class 4	Electric Utility Vehicle-Zeus	Phoenix	BEV	14,500lb	Up to 100 mi	105 kWh (Chasis: Ford E450)	~\$212K	\$80,000	Yes	Lease available	tfolio-items/work-truck/ http://www.phoenixmotorcars.com/pr oducts/#1505308785414-38579dc5- df17
Light						Box trucks		1		Cease available	nttps://www.daimier.com/products/tr
Duty Class 4	eCanter	FUSO Motiv	BEV	~15,000lb 14,500lb	100 mi 75mi	90 kWh 106 kWh (Motiv EPIC)		\$80,000			http://www.motivps.com/motivps/por tfolio-items/box-truck/
Class 5	T5	BYD	BEV	16,000lbs GVWR	155 mi	145 kWh (Iron-Phosphate)	\$165,000	\$80,000			http://en.byd.com/usa/wp- content/uploads/2017/06/t5-final.pdf
Class 6	Τ7	BYD	BEV	23,600lbs GVWR	124 m	175 kWh (Iron-Phosphate)	\$195,000	\$90,000			http://en.byd.com/usa/wp- content/uploads/2017/06/t7-final.pdf
						Passenger Van					content/uploads/2017/00/t7-mai.put
		Zenith	BEV	10,050 lbs	80-135	51.8 - 70 kWh (LiFePO4)		\$50,000	Yes		http://www.zenith-motors.com/wp- content/uploads/2013/05/Brochure12
						Step/Walk-in Van					2017.pdf
Class 4	E-Gen	Workhorse	PHEV	19,500 lbs	60 Miles	60 kWh (Panasonic Custom)		NA	Q1 2019		http://workhorse.com/stepvans
Class 5	E-100	Workhorse			100 Miles		\$133,000	80,000.00\$	Tes	Yes	http://www.matium.com/matium.faa
Class 4-6		Motiv	BEV	14,500 - 26,000 lbs	Up to 90mi	106 – 127 kWh		\$80-95K			http://www.motivps.com/motivps/por tfolio-items/walk-in-van/ http://www.zenith-motors.com/wp-
	E Step Van	Zenith	BEV	22,000 lbs	90 mi	100 kWh (LiFePO4) Panel Van		N/A			content/uploads/2013/05/Brochure12 2017.pdf
	N-Gen	Workhorse	PHEV		100 mi						http://workhorse.com/ngen http://www.zenith-motors.com/wp-
MDV	E Cargo Van	Zenith	BEV	10,050 lbs	80-135 mi	51.8 - 70 kWh (LiFePO4)		\$50,000			content/uploads/2013/05/Brochure12 2017.pdf
	V8100	Chanje	BEV	6,000 lbs	150 mi	13.2 kWh (onboard charger) Yard tractors	\$145-170K	\$80,000	Yes	\$1,000-\$1,500/n	
ŀ	Terminal T Series	BYD Orange EV	BEV BEV	102,000 lbs GCWR 81K lbs GCVW	15 hours	209 kWh (Iron-Phosphate) Sized to meet the needs of your site.		\$150,000 \$150,000		_	http://en.byd.com/usa/wp- https://orangeev.com/t-series-new/
	TBD	Tesla	BEV	Class 8		Combination Tractors			No		
Sleeper	Nikola	Nikola	Hydrogen	Class 8					No		
Daycab	T9 Nikola	BYD Nikola	BEV Hydrogen	Class 8, 120KGCVW Class 8	92 mi	188 kWh (Iron-Phosphate)	\$300,000	\$150,000	No		http://en.byd.com/usa/wp- content/uploads/2017/06/t9-final.pdf
	NIKOIa	BYD	BEV	C1835 8		Transit buses		\$101,000			
30 Ft	EV250	GreenPower BYD	BEV BEV		175 mi	210 kWh (LiFePO4)		\$126,000	Yes		http://www.greenpowerbus.com/pro duct-line/
	XE35	New Flyer		29,300 lb (Curb Weight)		(Rapid Charge) 100 kWh - 200 kWh (Long Range Charge) 280 kWh - 454 kWh		\$122,000			https://www.newflyer.com/buses/xcel sior-charge/
35 Ft	BE35	Proterra	BEV	up to 31,690 (Curb Weight) depending on	Up to 251, depending on configuration	up to 440 kWh depending on configuration		\$120,000	Yes		https://www.proterra.com/products/3 5-foot-catalyst/
	EV300	GreenPower	BEV	configuration	175 mi	260 kWh (LiFePO4) (Rapid Charge) 100 kWh - 200 kWh					http://www.greenpowerbus.com/pro duct-line/
	XE40	New Flyer BYD	BEV	30,500 lb (Curb Weight)		(Long Range Charge) 280 kWh - 545 kWh		\$152,000 \$150-156K	Yes		https://www.newflyer.com/buses/xce sior-charge/
40 Ft	BE40	Proterra	BEV	up to 31,000 (Curb Weight) depending on	Up to 350 depending on configuratoin	up to 660 kWh depending on configuration		\$150,000	Yes		https://www.proterra.com/products/4 0-foot-catalyst/
	EV350	GreenPower	BEV	configuration 31,320 lbs (Curb Weight)	185 mi	320 kWh (LiFePO4)		\$150K			http://www.greenpowerbus.com/pro duct-line/
45 Ft	EV400	GreenPower	BEV		185 mi	320 kWh (LiFePO4)					http://www.greenpowerbus.com/pro duct-line/
60 Ft	XE60	BYD New Flyer	BEV	45,500 lb (Curb Weight)		(Rapid Charge)250 kWh (Long Range Charge) 640 kWh - 818		\$175-181K	Yes		https://www.newflyer.com/buses/xce sior-charge/
40-45ft Double	EV550	GreenPower	BEV		240 mi	kWh 478 kWh (PG Porous Polymer Graphene)		\$150K	Yes		http://www.greenpowerbus.com/pro duct-line/
Class 4		Motiv	BEV	14,500 lbs	75 mi	Buses - shuttle 106 kWh		80,000.00\$			http://www.motivps.com/motivps/po
36.5 Ft	Synapse Shuttle	GreenPower	BEV	כטו טטיב,וייב	75 mi 75 -140 mi	100 kWh - 200 kwh Li-Ion, (NMC or LiFePO4)		\$120,000			tfolio-items/shuttle-bus/ http://www.greenpowerbus.com/pro duct-line/
27 Ft	EV27	AVM	BEV	24k GVWR; 17,645 curb weight	200 mi	46-210 kWh		NA			https://static1.squarespace.com/stati /sa131611d74cff363a3cc76b/t//sade2 4a70a6ad5230b8528/152452282836 /AVM_spec-Sheet_Website_2+18+18 +style=guide+update040b8b12482d87 94d83e0b58007453084023402c38h lcfc2bec8027c44f1f.compressed.pdf
Class 4	Zeus	Phoenix	BEV	14,500 lbs.	100 mi	105 kWh (Chasis: Ford E450)		\$80,000		Lease available	http://www.phoenixmotorcars.com/pi oducts/#1504526529831-d1c9ab72- 86fe
23 Ft		BYD	BEV			Buses - motor coach		\$80,000			
25 Ft	EV Star	GreenPower			125 - 200 mi	70 kWh - 95 kWh Li-Ion (NMC)		44			http://www.greenpowerbus.com/pro duct-line/
40 Ft 45 Ft		BYD BYD	BEV BEV					\$150,000			
	EPIC 4	Motiv	BEV	Class 4, 14,500 lbs.	75mi	Buses - school 106 kWh		NA	Yes		http://www.motivps.com/motivps/por tfolio-items/typeaschoolbus/
Type A	Micro Bird G5	Blue Bird/Adomani/	BEV		100mi						https://blue-bird.com/blue-bird/Press- Releases/Blue-Bird-Introduces-AllNew-
	where pille up	EDI	567		100111						Electric-School-Bus-So-104.aspx

Available Electric Vehicles (2/2)

		Blue							https://www.businesswire.com/news/
		Bird/Adomani/			100 mi	118 kWh	220,000.00\$	Yes	home/20180407005037/en/Blue-Bird-
		EDI							Electric-School-Buses-Road-Orders
	Synapse 72	GreenPower	BEV		75 -140 mi	100 kWh - 200 kwh Li-Ion, (NMC or	220.000.00\$		http://www.greenpowerbus.com/pro
	Synapse 72	Greenrower	DLV		75-140 111	LiFePO4)	220,000.000		duct-line/
								Production	https://thomasbuiltbuses.com/bus-
Type C	Saf-T-Liner	Thomas	BEV		100	100-160 kWb		scheduled for	news-and-events/news/thomas-built-
	Sat-1-Liner	Built/EDI	BEV		100 mi	100-160 KWh			buses-debuts-new-saf-t-liner-2017-11-
								2019	04/
	e-Quest	Motiv/Trans		Class 6, 26,000 lbs	up to 90 miles	127 kWh	150.000		http://www.motivps.com/motivps/por
	e-Quest	Tech		Class 0, 20,000 lbs	up to 90 miles	127 KVVII	150,000		tfolio-items/typecschoolbus/
	eLion	Lion	BEV	30.000 lbs.	50-100mi	LG Chem - Lithium-ion (NMC)	220,000.00\$	Yes	https://thelionelectric.com/documents/en
	etion	LIUII	DEV	50,000 lbs.	30-100mi	Ed chemi - Ethium-Ion (NMC)	220,000.003	res	/technical%20spec.pdf
		Blue							https://www.blue-
	All American	Bird/Adomani/	BEV						bird.com/Uploads/Public/Documents/
Type D		EDI							electric-re-spec-sheet1.pdf
1	C	Course	BEV		75 -140 mi	100 kWh - 200 kwh Li-Ion, (NMC or	220.000.00\$		http://www.greenpowerbus.com/pro
1	Synapse 72	GreenPower	BEV		75 -140 mi	LiFePO4)	220,000.00\$		duct-line/

Other Complete Coach works - Convert vehicles to Evs Orange EV also refurbishes yard tractors

http://completecoach.com/

APPENDIX E-1: Expanded Table of Completed Site Assessments

See next page.

County	City	Entity Name	Project Address	Charger Use	Point-of-Contact	Phone Number	Email Address
San Luis Obispo	San Luis Obispo	SLO County General Hospital	2180 Johnson Ave	Fleet	Rocky Buoy	(805) 788-2459	rbuoy@co.slo.ca.us
San Luis Obispo	San Luis Obispo	Cal Poly University San Luis Obispo	1 Grand Ave	Fleet	Trevor Ray	(805) 756-2982	tray02@calpoly.edu
San Luis Obispo	San Luis Obispo	San Luis Obispo City Corporation Yard	29 Prado Road	Fleet	Chris Read	(805) 781-7151	cread@slocity.edu
San Luis Obispo	San Miguel	San Miguel Laundry	1141 Mission St	Public	Paolo Pecora	(415) 238-2244	paolo108@gmail.com
San Luis Obispo	Paso Robles	Paso Robles Joint Unified	2910 Union Road	Fleet	Kelly Stainbrook	(805) 769-1160	kstainbrook@pasoschools.org
San Luis Obispo	San Luis Obispo	SLO Guild Hall	2880 Broad St	Public	Angela Tahti	(805) 438-4452	ajtahti@gmail.com
Santa Barbara	Santa Barbara	El Escorial Villas	240 Por La Mar Cir	Multi-Unit Dwelling	Tim Martin	(805) 452-5527	elescorialsb1@yahoo.com
Santa Barbara	Santa Maria	City of Santa Maria	110 S. Pine St	Public	Eric Riddough	(805) 325-0951	eriddiough@cityofsantamaria.org
Santa Barbara	Santa Barbara	La Cumbre Jr. High School	2255 Modoc Road	Public	Steve Vizzolini	(805) 963-4338	svizzolini@sbunified.org
Santa Barbara	Santa Barbara	Cachuma Lake Recreation Area	2225 Highway 154	Public	Frank Chen	(805) 568-3557	fchen@co.santa-barbara.ca.us
Santa Barbara	Santa Barbara	UC Santa Barbara	522 University Road	Public	James Wagner	(805) 893-5475	james.wagner@tps.ucsb.edu
Santa Barbara	Santa Barbara	The Koto Group	525 E. Micheltorena St	Multi-Unit Dwelling	James Knapp	(805) 973-7077	jp@kotogroup.com
Ventura	Oxnard	Oxnard Elementary School District	514 West Wooley Road	Fleet	Tony Briscoe	(805) 385-1501	abriscoe@oxnardsd.org
Ventura	Oxnard	Ocean View School District	4200 Olds Road	Fleet	Bob Brown	(805) 986-6718	bbrown@oceanviewsd.org
Ventura	Port of Hueneme	Port of Hueneme	105 Hueneme Road	Public	Giles Pettifor	(805) 488-3677	gpettifor@portofh.org
Ventura	Camarillo	Cal State University Channel Islands	1 University Dr	Public	Tom Hunt	(805) 437-3507	thomas.hunt@csuci.edu
Ventura	Moorpark	Moorpark Unified	5297 Maureen Lane	Fleet	Jemal Chavez	(805) 378-6344	jlchavez@mrpk.org
Ventura	Oxnard	Oxnard Union High School District	3400 W. Gonzales Road	Fleet	Joshua Brown	(805) 278-3162	joshua.brown@oxnardunion.org

APPENDIX E-2: SLO County Hospital Permit-Ready Documents

See next 12 pages.



ABM Electrical Power Services 14201 Franklin Ave, Tustin, CA 92780 Office 866.226.2838 Mobile 949.343.2929 van.wilkins@abm.com

EV Charging Station Infrastructure Proposal

Proposal # TCB021819-6	Site ID: CHHC (County Hospital Health Campus
Date: February 18, 2019	2180 Johnson Ave
Customer: CHHC (County Hospital Health Campus)	San Luis Obispo, CA 93401
2180 Johnson Ave	Jon Griesser
San Luis Obispo, CA 93401	(805) 781-5611
	jgriesser@co.slo.ca.us rbuoy@co.slo.ca.us

QTY	,	DESCRIPTION OF WORK	PRICE EA.	EXTENDED
1	installation as outline Per initial site visit an Specifically included 1. Permit and associa 2. Install (1) ABM pro- responsible for receiv 3. Provide and install 4. Provide and install 5. Provide and install 6. Provide and install 6. Provide actual 5. Specifically excluded 1. Changes to discus 2. Repairs to unmark 3. Any additional wor 4. ABM is not respon	d communications with facilities manager. are the following: vided CT4000 two port charge station, charging station understood to be delivered direct to customer and we will not be ving or transportation to charging location. conduit and conductors. 40/2 breaker for each charge station port. "EV Charging" parking sign at each parking stall, stripe stall with green paint. n, backfill and surface replacement for required trenching.	\$41,912.82	\$41,912.82
4	CT4011 GW1	Single Port Bollard Gateway	\$4,075.00	\$16,300.00
4	CPCLD- COMMERCIAL-3	CT4000 3 Year Commercial Cloud Plan (per port)	\$705.00	\$2,820.00
4	CT4000 ASSURE-3- PM-2	CT4000 3 Years Assure (per station)	\$2,314.00	\$9,256.00
4	SHIIPPING	AC Charger Shipping Bosch and Innogy 9.6kW Wall mtd shop/pdi unit	\$341.25	\$1,365.00
		Subtotal All options		\$71,653.82
	TAXES	Sales, use or other indirect pass-through taxes will be imposed as required by municipal statutes in accordance with laws covering separated charges for materials, installation labor, optional warranty coverage and software updates.	7.75%	\$5,553.17
		Grand Total	USD	\$77,206.99

Exclusions/Clarifications: (PRICING VALID FOR 120-DAYS)

1) EV CHARGING EQUIPMENT NOT INCLUDED, CUSTOMER TO PURCHASE EQUIPMENT DIRECTLY FROM PORSCHE. We will compile the parts list for the Porsche supplied parts list and submit the order to Porsche, the parts will be billed to the Dealer under its parts consignment.

2) Job will be done in three phases, A) initial underground and concrete installation for ChargeBox and Kiosks, B) L2 Installation, C) ChargeBox/systems & 19.2kW L2 Chargers final Installation/startup, (either late 2018 or Early 2019).

3) Charges or Fees from the Utility Company for Service Connect/Disconnect/Upgrade or Demand increase fees

4) Construction permitting does not include additional requirements from zoning issues or previous site problems with the municipalities

ABM Electrical Power Services (ABMEPS) Terms and Conditions

Terms of Payment: 1. Terms are net thirty (30) days. Any invoice not paid within thirty (30) days from the date of invoice will be subject to a service charge equal to the lesser of One and One-half percent (1.5%) per month on account balances or the maximum percentage permitted by law. **2.** At ABMEPS's option, customers may be invoiced on a monthly basis for services provided over more than one month. **3.** All pricing and

) payment terms contained herein are contingent upon a favorable Credit Report for the customer/client to whom this quotation is provided. Upon receipt of a less than favorable credit report ABMEPS reserves the right to withdraw this proposal, modify the pricing, or require payment when services are rendered, or advance payment of the total job quotation before providing services. **4.** For material purchases in excess of \$50,000, ABMEPS reserves the option to invoice 50% of the total at the time of material order and the remaining 50% at the time of material delivery. **5.** Customer agrees to pay ABMEPS, to the extent permitted by applicable law, all costs and expenses, including but not limited to reasonable attorney's fees, incurred by ABMEPS in connection with any collection activities or actions to collect unpaid invoices under this quotation.

Delays: ABMEPS shall not be liable for delays or performance resulting from causes beyond its reasonable control, acts of God, acts or omissions of Buyer, fire, strike or other labor difficulty. Should there be a delay, the date of delivery or performance shall be extended.

Cancellation: Notice of cancellation of services to be performed must be received thirty-six (36) hours prior to the agreed upon date and time. Unless such notification is provided, charges will be incurred. These charges will be ABMEPS's cost plus ten percent (10%) and will include any rental equipment for the Project.

Disclaimer: ABMEPS assumes no responsibility for any damage or injury to any property caused directly or indirectly as a result of ABMEPS performing its duties under this agreement except such damage or injury that may be held to result solely and directly from or out of: Any grossly negligent performance by ABMEPS in its obligations under this Agreement or any willful misconduct on the part of ABMEPS, its agents or employees.

Responsibility: All services are performed in accordance with industry standards, project specifications and/or NETA specifications. Where remediation is beyond the scope of normal reliability testing, and where corrective action is required, such services will be quoted separately.

Assignment: ABMEPS reserves the right to assign this project in part or in total to an affiliated entity.

Termination: An order may be terminated only by mutual written agreement between Buyer and ABMEPS and only upon payment of costs and expenses already incurred by ABMEPS.

Safety: ABMEPS agrees to comply with all applicable federal, state, local, National Electric Codes and project safety rules and regulations. ABMEPS reserves the right not to perform work that in its opinion violates OSHA Electrical Safety-Related Work Practices; Final Rule or other safety rules and regulations.

Standby Time: When ABMEPS service personnel are on the job site but unable to perform services requested because of circumstances beyond ABMEPS's control, the customer will be charged standby time at the applicable rate for each such ABMEPS service person (up to a maximum of eight (8) hours per day per person).

Liability: ABM Electrical Power Services and its contractors and suppliers of any tier, shall not be liable in contract, in tort or otherwise for damage or loss of property or equipment, loss of profits or revenue, loss of use of equipment or power system, cost of capital, cost of purchased or replacement power or temporary equipment (including additional expenses incurred in using existing facilities), claims of customers of Buyer, or for any special, indirect, incidental, or consequential damages of any kind, whether arising in or based on contract, tort, statute, strict liability, warranty or otherwise.

Warranties: All material and equipment delivered and/or installed will be the products of reputable manufacturers. ABMEPS MAKES NO WARRANTY, EXPRESS OR IMPLIED, INCLUDING WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE WHICH ARE HEREBY EXPRESSLY EXCLUDED, CONCERNING MATERIAL AND EQUIPMENT MANUFACTURED BY OTHERS. ABMEPS sells and delivers all materials and equipment not manufactured by it "AS IS," but ABMEPS will use its best reasonable efforts to obtain from the manufacturer, in accordance with the manufacturer's customary practices, the repair or replacement of any material or equipment which may prove defective in workmanship or material. The foregoing shall be the exclusive remedy of Buyer and the sole obligation of ABMEPS with respect to material and equipment manufactured by others. To the extent permitted by law, ABMEPS warranties its labor for one (1) year and any materials obtained from ABMEPS's inventory carry a ninety (90) day warranty.

Unforseen underground issues: The estimate does not include any costs or contingencies for rock or other abnormal ground conditions, and Owner/Customer shall be responsible for the costs of correcting any such conditions. Should such abnormal conditions be encountered on the site in connection with excavation or installation of sewer lines, water lines, or other utility services, ABM shall promptly inform Owner/Customer of same and estimated costs of the additional work. Such costs may include, but are not necessarily limited to jack hammer, backhoe and/or rock drill operations. The actual costs will be reflected in an increase in the actual invoicing. If we are not able to complete any bore due to rock or abnormal conditions, an attempt/mobilization fee of \$3,000.00 USD, plus the cost to return materials will apply.

Unforseen hazardous materials: This project agreement does not include costs or responsibility for any hazardous material abatement that is discovered by ABM or others during the course of the project.

We instruct ABM Electrical Power Service and performing the work described in th	es, LLC (ABMEPS) or subsidiaries to proceed with scheduling a attached proposal.
* ABMEPS Proposal Number:	
Project Site Address(es):	
* Authorized Project Amount: \$	Proposed Date to Begin Work:
Project Comments/Notes: Site Contact Name:	Site Contact Phone:
AUTHORIZ	ATION TO PROCEED REQUIRED
* Customer Authorization Signature:	
Printed Name & Title:	
Date: Phone:	Email:
BILLING	G INFORMATION REQUIRED
	per the pricing outlined in the proposal accordingly:
	ber is (Mark One): Required on invoice Not Required
-	
Billing Address:	
AP Phone Number:	_ AP Email Address:
Email Address For Invoice Processing:	
* Please help streamline invoicing	by providing an email address for invoice processing
* ABMEPS Project Authorization Signature	e:
Terms and Conditions: The attached ABM Electrical Power Services, LLC work outlined in this quotation shall constitute Si Oral authorizations to proceed must be confirme a conflict or discrepancy between terms and con-	Terms and Conditions will apply. Authorization to proceed with the ite Host ("Buyer's") acceptance of these terms and conditions in full. ed to ABMEPS in writing (Fax or e-mail) before project start. If there is ditions in the Buyer's purchase authorization and this quotation, this zed, in writing, by ABM Electrical Power Services, LLC.

Sincerely,

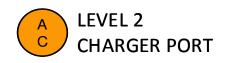
Van D. Wilkins, Jr.

National Accounts Manager

Health Campus

SCOPE: INSTALL FOUR - CT4000 SINGLE PORT CHARGERS.

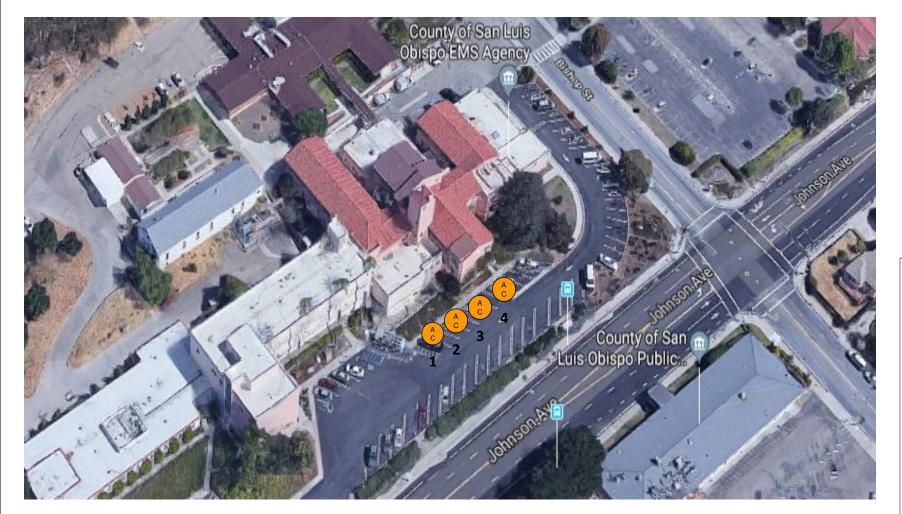




EVG-250.1 General Where provided, electrical vehicle charging stations shall comply with EVG-250.

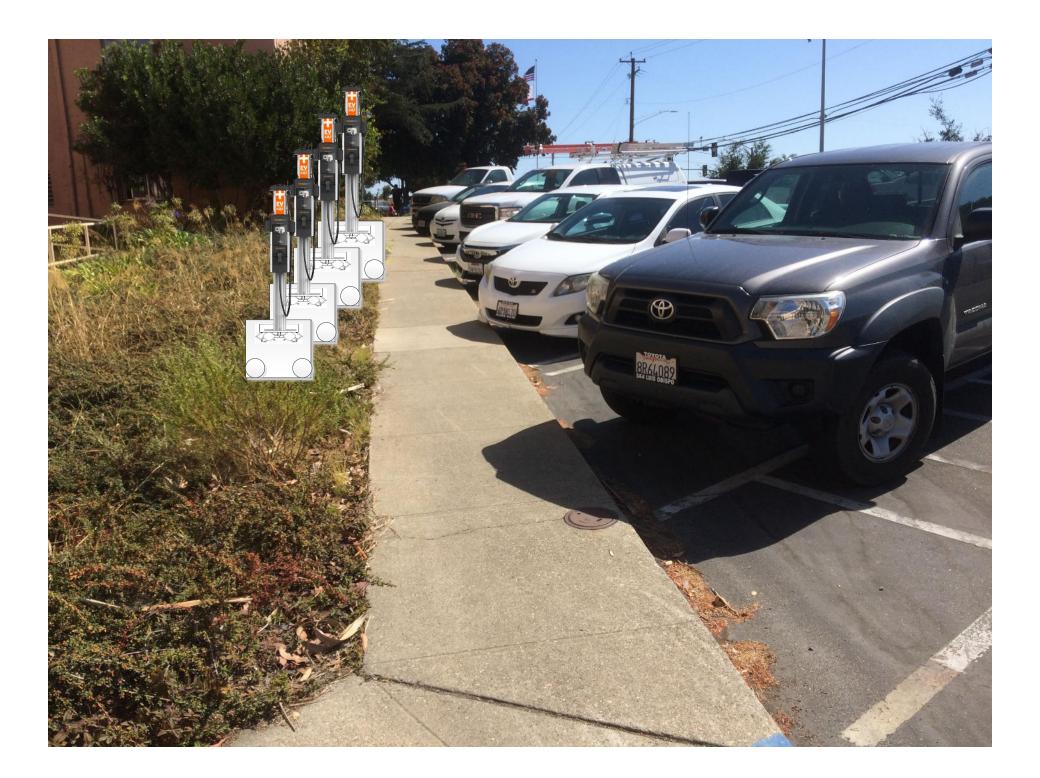
ADVISORY: EVG-250.1 General Existing conditions, terrain, electric infrastructure and other factors dictate that not every electric vehicle charging station can be fully accessible. With electric vehicle charging station being functionally similar to and usually intergraded with parking, the ratios of accessible to standard electric vehicle charging stations in these guidelines are the same as those for accessible to standard parking in the 2010 ADA standards and the 2013 California Building Code. The numbers of required accessible electric vehicle charging stations for both onsite and public rights-of-way locations are shown in Tables EVG-250.2 On-site Electric Vehicle Charging Stations and EVG-250.3 On-street Electric Vehicles Charging Stations

NO.	REVISIONS	DATE	REV' D	APP' D				DATE	11/28/18
1	INITIAL RELEASE	11/28/18	; REV'D		DESIGNED James Pierson	Electricralt	HEALTH CAMPUS	SCALE	NTS
		-	-	-		g Value		JOB #	
		-	-		James Pierson		HEALTH CAMPUS	100#	NTS
		-	-			14201 FRANKLIN AVE.	2180 JOHNSON AVENUE	SHEET	1
		-	-	-	CHECK ED	TUSTIN, CA 92780	SAN LUIS OBISPO, CA	SHEET #	9

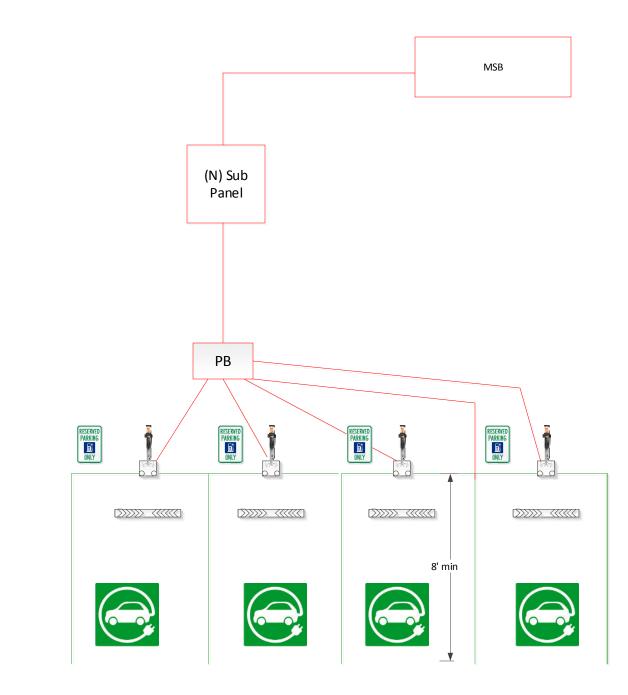


SHEET INDEX: 1. TITLE SHEET 2. SITE CONDITIONS 3. SITE SKETCH 4. SINGLE LINE (LINE) 5. CT4000 SPECIFICATIONS 6. CT4000 DETAILS 7. CIVIL DETAILS 8. PARKING INFO

9. STANDARDS



NO.	REVISIONS	DATE	REV' D	APP' D				עם	ATE	11/28/18
1	INITIAL RELEASE	11/28/18	REV'D	APP'D	DESIGNED James Pierson	ABM Electricraft	HEALTH CAMPUS	sc	jale	NTS
		-	-	-		Building Value)в#	
		_	_		James Pierson	ABM ELECTRICAL POWER SERVICES	HEALTH CAMPUS		<i>"</i> »#	NTS
		_	-			14201 FRANKLIN AVE.	2180 JOHNSON AVENUE	SH	IEET	2
		-	-	-	CHECKED	TUSTIN, CA 92780	san luis obispo, ca	SHE	EET #	9



NO.	REVISIONS	DATE	REV' D	APP' D					DATE	11/28/18
1	INITIAL RELEASE	11/28/18	REV'D	APP'D	DESIGNED James Pierson	ABM Electricraft	HEALTH CAMPUS		SCALE	NTS
		-	-	-	DESIGNE D	Building Value			JOB #	
		-	-		James Pierson	ABM ELECTRICAL POWER SERVICES	HEALTH CAMPUS	_	JOR #	NTS
		-	-			14201 FRANKLIN AVE.	2180 JOHNSON AVENUE		SHEET	3
		-	-	-	CHECK ED-	TUSTIN, CA 92780	SAN LUIS OBISPO, CA		SHEET #	9

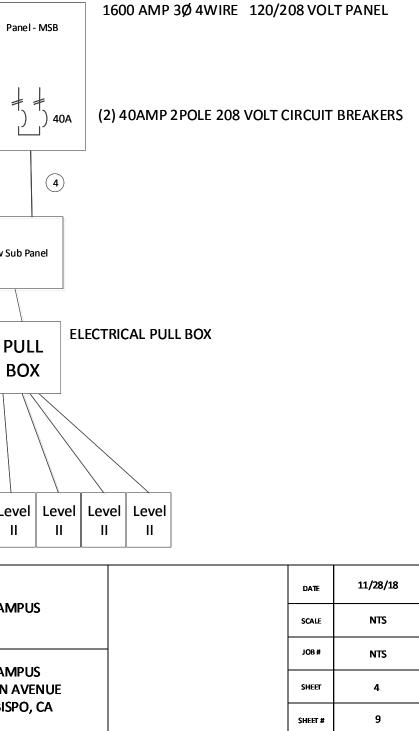
NOTES:

- 1 1-1/4" PVC CONDUIT W/ (10) #8 AND (1) #10 GND COPPER THHN CONDUCTORS
- 2 TWO 40AMP 2POLE 208 VOLT CIRCUIT BREAKERS W/ BREAKER TIE BAR AND GROUNDING BAR KIT
- 3 1" PVC CONDUIT W/(2)#8 AND (1)#10 GND COPPER THHN CONDUCTORS
- 4 2" EMT W/(3)3/0 AND (1)#6 GND COPPER CONDUCTORS

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										VOLT (16		_	w								
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	3	SFACE										1109		20	3					4	
	5	SPACE											1109	20	3					6	
	7					3	90	4992			8875			200	2				New Sub Panel	8	
	9					3	90		4992			8875		200	2				New Sub Faller	10	
	11					3	90			4992			8875	200	2					12	L
	13					3	800	44373												14	
	15					3	800		44273											16	
	17					3	800			44273										18	
	19					3	200	11093			6656			80	3					20	
	21					3	200		11093			6656		80	3					22	
	23					3	200			11093			6656	80	3					24	
	25					3	400	22186			22186			400	3					26	
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		LTG	REC	MISC	POLE	AMP	Α	В	С	Α	В	С	AMP PC	LEMIS	SC REC	LTG				
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17	SPACE																SPACE	18		
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NO.	REVISIONS	DATE	REV' D	APP' D			
1	INITIAL RELEASE	11/28/18	REV'D	APP'D	DESIGNED James Pierson	ABM Sectricraft	HEALTH CAM
	-	-	-	-	DESIGNED JUNICS FICTS ON	Building Value	
		-	-		James Pierson	ABM ELECTRICAL POWER SERVICES	HEALTH CAM
		-	-			14201 FRANKLIN AVE.	
		-	-	-	CHECK ED-	- TUSTIN, CA 92780	san luis obisp



2

Power Select 16A Power Select 24A Power Share Functional Interfaces Connector(s) Type Cable Length - 1830 mm (6 Cable Management Cable Length - 2440 mm (8 Cable Management Overhead Cable Management System LCD Display Card Reader Locking Holster)	5.5 r r 145 mm (5.7		80, 30fps fi	/es ull motion video, active SO 14443, NFC	SAE J1772™ x 2 5.5 m (18') x 2 7 m (23') matrix, UV protected Yes x 2		Į		
Power Select 24A Power Share Functional Interfaces Connector(s) Type Cable Length - 1830 mm (6 Cable Management Cable Length - 2440 mm (8 Cable Management Overhead Cable Management System LCD Display Card Reader)	5.5 r r 145 mm (5.7	m (18') 1/a ") full color, 640x4 I	80, 30fps fi	III motion video, active	5.5 m (18') x 2 7 m (23') matrix, UV protected		Į		
Power Select 24A Power Share Functional Interfaces Connector(s) Type Cable Length - 1830 mm (6 Cable Management Cable Length - 2440 mm (8 Cable Management Overhead Cable Management System)	5.5 I	m (18') 1⁄a			5.5 m (18') x 2 7 m (23')				
Power Select 24A Power Share Functional Interfaces Connector(s) Type Cable Length - 1830 mm (6 Cable Management Cable Length - 2440 mm (8 Cable Management Overhead Cable)	5.5	m (18')	,	/es	5.5 m (18') x 2				
Power Select 24A Power Share Functional Interfaces Connector(s) Type Cable Length - 1830 mm (6 Cable Management Cable Length - 2440 mm (8)	5.5	m (18')			5.5 m (18') x 2				
Power Select 24A Power Share Functional Interfaces Connector(s) Type Cable Length - 1830 mm (6										
Power Select 24A Power Share	5	SAE	J1772™			SAE J1772™ x 2				
Power Select 24A Power Share										
		.,								
Power Select 16A		n/a		3.8kW (2	40V AC@16A) x 1 or 1.9k					
		3.8kW (240V AC@	16A)		3.8kW (240V AC@10					
Power Select 24A Power Share		n/a		5.8kW (24	10V AC@24A) x 1 or 2.9k	W (240V AC@12A) x 2	00	6.6	-there is a	
Power Select 24A		5.8kW (240V AC@	24A)		5.8kW (240V AC@2	4A) x 2	(19)	AD	(16)	
Standard Power Share		n/a		7.2kW (24	40V AC@30A) x 1 or 3.8k	W (240V AC@16A) x 2		The second se		
Standard		7.2kW (240V AC @	30A)		7.2kW (240V AC@3	DA) x 2			-chargepoin+	
Electrical Output								- schurzenslas	ONLY	1
Station Power			W typical (standby),	15W maximu					EV	
Wiring - Power Share		n/a			3-wire (L1, L2, Ea		2	ONLY		ľ
Wiring - Standard		3-wire (L1, L2, Ea			5-wire (L1, L1, L2, L2		ดี	Q		Ì
Service Panel GFCI		Do not provid	e external GECL as it	may conflict	with internal GFCI (CCID)		ĩ	N N N		
Power Select 16A Power Share	n/a	n/a	n/a	16A	One 20A branch circuit	20A dual pole (non-GFCI type)	HAF	CHARGING	Misc	Pow Bolla
Power Select 16A	16A	One 20A branch circuit	20A dual pole (non-GFCI type)	16A x 2	Two independent 20A branch circuits	20A dual pole (non-GFCI type) x 2				Integ
Power Select 24A Power Share	n/a	n/a	n/a	24A	One 30A branch circuit	30A dual pole (non-GFCI type)		Ę	Options	Integ
Power Select 24A	24A	One 30A branch circuit	30A dual pole (non-GFCI type)	24A x 2	Two independent 30A branch circuits	30A dual pole (non-GFCI type) x 2				244 244
Standard Power Share	n/a	n/a	n/a	32A	One 40A branch circuit	40A dual pole (non-GFCI type)				1830 1830
Standard	30A	One 40A branch circuit	40A dual pole (non-GFCI type)	30A x 2	Two independent 40A branch circuits	40A dual pole (non-GFCI type) x 2			Model	1830 1830
	Input Current	Input Power Connection	Required Service Panel Breaker	input Current	Input Power Connection	Required Service Panel Breaker			Descript	
Electrical Input		ngle Port (AC Voltage	208/240V AC)		Jual Port (AC Voltage :				Hardwa	

James Pierson

Building Value

ABM ELECTRICAL POWER SERVICES

14201 FRANKLIN AVE.

TUSTIN, CA 92780

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DRAWN

CHECKED

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HEALTH CAN 2180 JOHNSON SAN LUIS OBIS

	Order Code
0 mm (6') Single Port Bollard Mount	CT4011
0 mm (6') Dual Port Bollard Mount	CT4021
0 mm (6') Single Port Wall Mount	CT4013
0 mm (6') Dual Port Wall Mount	CT4023
0 mm (8') Dual Port Bollard Mount	CT4025
0 mm (8') Dual Port Wall Mount	CT4027
gral Gateway Modem - USA	-GW1
gral Gateway Modem - Canada	-GW2
ver Management Kit	CT4000-PMGMT
ard Concrete Mounting Kit	CT4001-CCM

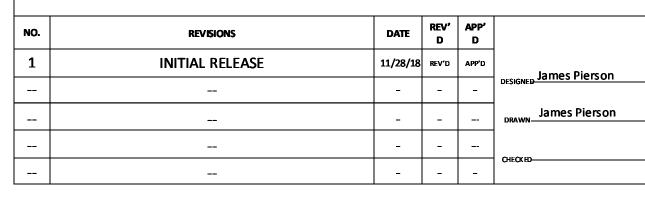
MPUS	DATE	11/28/18
		NTS
MPUS	JOB #	NTS
AVENUE SPO, CA	SHEET	5
•	SHEET #	9

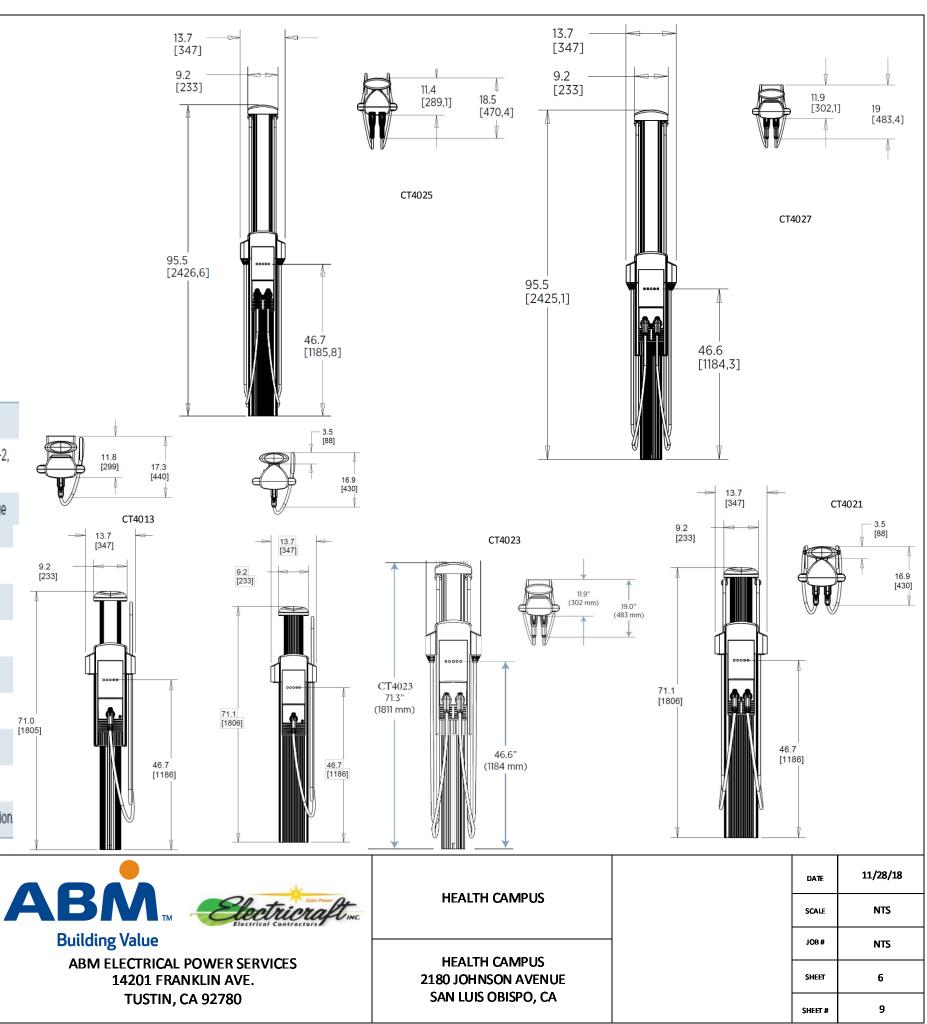
Safety and Connectivity Features

Ground Fault Detection	20mA CCID with auto retry
Open Safety Ground Detection	Continuously monitors presence of safety (green wire) ground connection
Plug-Out Detection	Power terminated per SAE J1772™ specifications
Power Measurement Accuracy	+/- 2% from 2% to full scale (30A)
Power Report/Store Interval	15 minute, aligned to hour
Local Area Network	2.4 GHz Wi-Fi (802.11 b/g/n)
Wide Area Network	3G GSM, 3G CDMA

Safety and Operational Ratings

Enclosure Rating	Type 3R per UL 50E	
Safety Compliance	UL listed for USA and cUL certified for Canada; complies with UL 2594, UL 2231-1, UL 2231-2, and NEC Article 625	
Surge Protection	6kV @ 3000A. In geographic areas subject to frequent thunder storms, supplemental surge protection at the service panel is recommended.	
EMC Compliance	FCC Part 15 Class A	9.2 [233]
Operating Temperature	-30°C to +50°C (-22°F to 122°F)	Δ
Storage Temperature	-30°C to +60°C (-22°F to 140°F)	
Non-Operating Temperature	-40°C to +60°C (-40°F to 140°F)	
Operating Humidity	Up to 85% @ +50°C (122°F) non-condensing	71.0
Non-Operating Humidity	Up to 95% @ +50°C (122°F) non-condensing	[1805]
Terminal Block Temperature Rating	105°C (221°F)	
Charging Stations per 802.11 Radio Group	Maximum of 10. Each station must be located within 45m (150') "line of sight" of a gateway station.	
		1





STRUCTURAL NOTES:

GENERAL:

- ALL WORK SHALL COMPLY WITH THE INTERNATIONAL BUILDING CODE CURRENT EDITION, AND ALL OTHER APPLICABLE CODES AND 1. REGULATIONS OF AGENCIES HAVING JURISDICTION.
- ALL REFERENCED STANDARDS REFER TO THE EDITION IN FORCE AT THE TIME THESE PLANS AND SPECIFICATIONS ARE ISSUED FOR PERMIT. 2.
- JOB SAFETY AND PROCEDURES FOR SAFE CONSTRUCTION ARE OF UTMOST IMPORTANCE, AND SHALL BE THE RESPONSIBILTY OF THE 3. CONTRACTOR
- WORK NOT EXPRESSLY SHOWN ON SPECIFIC PARTS OF THE DRAWINGS OR SPECFICATIONS, BUT REASONABLEY IMPLIED BY SIMLAR WORK 4 SHOWN, SHALL BE REPEATED.
- 5. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL MEMBERS AND MATERIALS TO CONFORM TO ACTUAL SITE CONDITIONS, CONTRACTOR SHALL REPORT DIFFERING SITE CONDITIONS AND DEVIATIONS IN NOTED PROCEDURE TO THE ENGINEER FOR REVIEW.
- CONTRACTOR SHALL TAKE CARE TO PROTECT ALL EXISTING STRUCTURES AND UTILITIES FROM DAMAGE. 6.
- SPECIFIC NOTES AND DETAILS SHALL TAKE PRECEDENCE OVER GENERAL NOTES AND TYPICAL DETAILS. THE CONTRACTOR SHALL REFER TO THE 7. SPECIFICATIONS FOR INFORMATION NOT COVERED BY THESE GENERAL NOTES OR THE STRUCTURAL DRAWINGS. DRAWINGS SHALL TAKE PRECEDENCE OVER SPECIFICATIONS.
- 8 IF THERE APPEARS TO BE A CONFLICT BETWEEN NOTES, DETAILS, OR SPECIFICATIONS, CONTRACTOR SHALL APPLY THE MOST RIGID REQUIREMENTS TO THE WORK. CONTRACTOR SHALL NOT DEVIATE FROM DRAWINGS WITHOUT APPROVAL OF THE ENGINEER.
- 9 IT IS THE INTENTION OF THIS SET OF DESIGN DRAWINGS TO PRODUCE CONSTRUCTION SHOP DRAWINGS FOR THE FABRICATION AND ASSEBLY OF THE BUILDING SYSTEMS. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY REMAINING COORDINATION, DETAILING AND MISCELLANEOUS DESIGN NOT INCLUDED HEREIN AND SHALL VERIFY CONFORMANCE TO ALL LOCAL BUILDING CODES AND PROFESSIONAL FILING REQUIREMENTS.

STRUCTURAL DESIGN DATA:

- ALL DEAD AND LIVE LOADS ARE PER THE INTERNATIONAL BUILDING CODES, CURRENT EDITION
- 1. DEAD LOADS:
 - ALL DEAD LOADS ARE REPRESENTATIVE OF ACTUAL, MATERIAL WEIGHT PER SQ. FT.

CHARGER STAND450 BS CONCRETE PAD SW/300PSF

2. LIVE LOADS:

ALL LIVE LOADS ARE PER IBC 1607.8.3; CONTRACTOR TO CONFIRM COMPLIANCE WITH LOCAL BUILDING CODES.

FOUNDATIONS:

- FOOTINGS ARE TO BEAR ON MIN, 3,000 PSF SUITABLE BEARING MATERIAL. 1.
- NO FOOTINGS ARE TO BE CAST ON UNCONTROLLED FILL, SOIIL, ORGANIC MATERIAL, FROZEN GROUND, MUD, SOFT CLAYS OR OTHER 2. OBJECTIONABLE OR UNAPPROVED MATERIALS.

CAST IN PLACE CONCRETE:

- ALL WORK SHALL COMPLY WITH THE REQUIREMENTS OF THE ACI BUILDING CODE, ACI 318, LATEST EDITION, THE INTERNATIONAL BUILDING 1. CODE, AND ALL OTHER APPLICABLE CODES AND REGULATIONS OF AGENCIES HAVING JURISDICTION, DETAILS SHALL BE IN ACCORDANCE WITH ACI-315, LATEST EDITION.
- 2. ALL CONCRETE FOR CAST IN PLACE WORK SHALL BE STONE CONCRETE WITH A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 4,000 PSI.
- NO ADMIXTURES SHALL BE ALLO WED WITHOUT PRIOR REVIEW AND ACCEPTANCE BY THE ENGINEER. 3.
- ALL REQUIREMENTS FOR BATCHING, MIXING, FINISHING, CURING ETC. SHALL BE AS PER ACI 301. 4.
- ALL REINFORCEMENT SHALL CONFIRM TO ASTM A615 GRADE 60 AND BE SECURELY TIED IN PLACE AND ADEQUATELY SUPPORTED. ALL BARS 5. MARKED CONTINUOUS' (CONT.) SHALL BE LAPPED 40 BAR DIA METERS UNLESS OTHERWISE NOTED. IF REQUIRED, CONTRACTOR SHALL PROVIDE ADDITIONAL BARS OR STIRRUPS TO ADEQUATELY SUPPLORT ALL BARS.
- SHOP DRAWINGS SHALL INDICATE THE FOLLOWING: ALL NECESSARY REINFORCING, LOCATIONS OF ALL CONSTRUCTION AND CONTROL 6. JOINTS. DETAILING AND AMOUNT OF REINFORCING FOR CONDITIONS NOT SHOWN SHALL BE PROVIDED AS SHOWN IN SIMILAR CONDITIONS. ALL INSERTS AND OTHER OBJECTS WHICH MAY AFFECT PLACING OF REINFORCING BARSSHALL BE INDICATED ON THE SHOP DRAWINGS.
- MINIMUM CLEAR CONCRETE COVER SHALL BE 3", THIS DIMENSIONS ARE TYPLICAL, UNLESS OTHERWISE NOTED ON PLANS AND DETAILS.
- CONTRACTOR SHALL PROVIDE REINFORCING STEEL ERECTOR WITH A SET OF STRUCTURAL PLANS FOR FIELD USE. 8.
- CONTRACTOR SHALL VERIFY DIMENSIONS AND LOCATIONS OF ALL OPENINGS, PIPE SLEEVES, CURBES, ETC. AS REQUIRED BY OTHER TRADES 9. BEFORE CONCRETE IS PLACED.
- CONTRACTOR SHALL COORDINATE LOCATION OF SLOTTED INSERTS, WELDED PLATES, AND OTHER ITEMS TO BE EMBEDDED IN CONCRETE 10. WITH CHARGING STATION MAUFACTURER.
- 11. CONTRACTOR SHALL USE RIGID TEMPLATES TO INSTALL ANCHOR BOLTS.
- PIPES OR CONDUITS PLACED IN SLABS SHALL NOT BE SPACED CLOSER THAN 3 TIMES THE DIAMETER ON CENTER. PIPES AND CONDUITS 12. PLACED IN SLABS SHALL NOT HAVE AN OUTSIDE DIA METER LARGER THAN 1/3 OF THE SLAB THICKNESS. ALUMINUM CONDUITS SHALL NOT BE PLACED IN CONCRETE. NO CONDUITS SHALL BE PLACED IN THE SLAB WITHIN 12 INCHES OF ANY COLUMN FACE.

NO.	REVISIONS	DATE	REV' D	APP' D	
1	INITIAL RELEASE	11/28/18	rev'd	APP'D	- James Pierson
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		-	I	-	James Pierson
		-	I	1	
		-	-	-	CHECKED-



DETAIL NOTES:

A.1-2' ROUND SONOTUBE STYLE FORMED BASE TO BE POURED FLUSH WITH EXISTING PAVEMENT OR EXISTING FINISHED GRADE

A.2- STANDARD BOLTDOWN BOLLARD TO BE INSTALLED ON FRONT OF PAD, SEE BOLLARD DETAIL

A.3- CHARGING STATION PEDESTAL TO BE INSTALLED PER PEDESTAL DETAILS

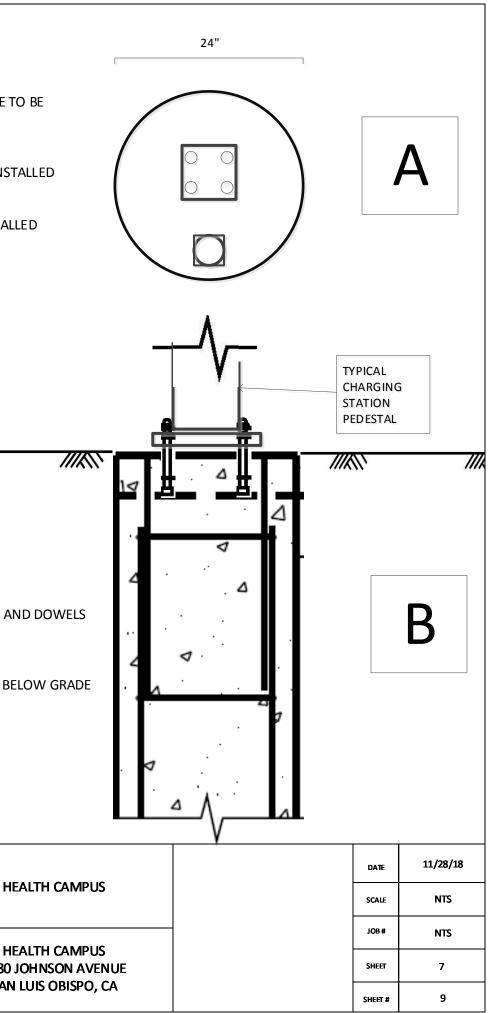
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DETAIL NOTES: B.1-24" SONOTUBE PIER WITH (4)- #8 VERT. AND DOWELS AND #4 TIES@ 16" O.C. VERT.

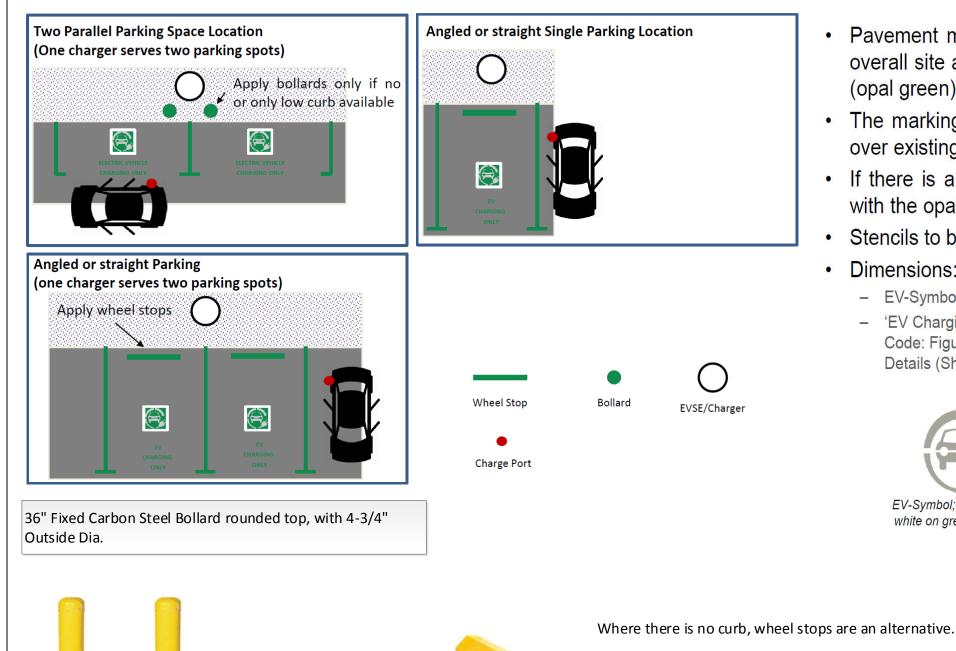
B.2- PROVIDE MIN. 24" EMBEDMENT IN SOIL BELOW GRADE

HEALTH CAMPUS

2180 JOHNSON AVENUE SAN LUIS OBISPO, CA



Parking Site Guidelines and Layout



- Pavement marking, wheel stops and bollards and, if it fits into the overall site appearance, also curbs have to be painted in RAL 6026 (opal green).
- · The marking of the EV-Charging parking spot has to be prioritized over existing markings.
- If there is any striping in different colors, it has to be painted over with the opal green color.
- Stencils to be used for marking to be found below.
- Dimensions:
 - EV-Symbol: 36 in x 36 in on a 38 in x 38 in green background frame
 - 'EV Charging only' and 'Electrical Vehicle Charging only' according to California Code: Figure 3B-108 (CA) Electric Vehicle Charging Station Pavement Marking Details (Sheet 1 & 2)





EV-Symbol; to be marked in white on green background

72"x 6" x 3" Plastic, 20 lbs, maintenance free, no painting REV' APP' NO. DATE REVISIONS D D B **HEALTH CAN** 1 **INITIAL RELEASE** 11/28/18 REV'D APP'D DESIGNED James Pierson ___ ___ _ **Building Value** James Pierson ___ ---_ **HEALTH CAN** ABM ELECTRICAL POWER SERVICES 14201 FRANKLIN AVE. 2180 JOHNSON ___ ___ _ ---SAN LUIS OBIS **TUSTIN, CA 92780** ---



Pavement marking example



For angled or straight parking bays

WALL MOUNTED **OR POST** MOUNTED EV PARKING SIGNAGE



_	DATE	11/28/18
/ IPUS	SCALE	NTS
	JOB #	NTS
APUS AVENUE	SHEET	8
РО, СА	SHEET #	9

ELECTRICAL - BASIC REQUIREMENTS 1. Provide all labor, materials, necessary equipment and services to complete all required Electrical Work including all additional items required for a complete and proper installation as indicated on the Drawings or as required. Work includes but is not limited to the following.

A. Service entrance system. B. All wiring and components to the charging systems

2. Installation shall be in accordance with the latest edition of the National Electrical Code and all applicable regulations of governing Local, State, County and Federal Codes including Utility Companies special requirements.

3. In the event of a conflict between equipment as drawn and these Specifications, the more stringent requirements will be applicable.

4. Coordinate delivery and installation of equipment required under this Section with the construction schedule.

5. Coordinate work with other trades and drawings.

6. All materials shall be new, free of defects and shall be U.L. listed, bearing U.L. label or be labeled or listed with an approved, nationally recognized Electrical Testing Agency.

7. Make final connections between all equipment furnished under this Contract.

8. The Contractor shall check all dimensions and verify all conditions pertaining to these Drawings at the building and site and shall report any discrepancies or conditions that are detrimental to proper completion of work to the Engineer at once.

9. Carefully examine all Project Drawings included for this Contract and those included under other contracts and report any discrepancies to Engineer and Architect.

10. Due to small scale of Drawings, it is not possible to indicate all offsets, fittings, access panels and similar parts which may be required. Drawings are generally indicative of work to be installed. Carefully examine structural and finish conditions affecting work and arrange all work accordingly, furnishing necessary parts and equipment as may be required to meet actual field conditions.

11. Lay out work from dimensions of Architectural and Structural Drawings and actual dimensions of equipment being installed. Layouts in congested areas shall not be scaled from Mechanical and Electrical Drawings. Do not make final layouts until Shop or Equipment Drawings are approved and iob conditions verified.

12. The right is reserved to make any reasonable change in locations of equipment and similar items within the building and at building exterior prior to installation without involving additional compensation.

13. All concrete saw cutting, removal and patching to be included.

14. All work shown on Drawings shall be supplemented by all Laws, Ordinances and Codes governing the work of these Divisions, which Laws, Ordinances or Codes shall take precedence in the event of any conflict between same, except where methods or materials shown are superior to the legal requirements.

15. Obtain all required certificates from Governing Agency and turn over to the Owner at completion of Work. Obtain exact charges for fees, permits and other costs required and include such amounts in Bid Price.

16. Contractor shall provide a warranty substantiating that all materials are as herein specified, and that he shall repair or replace any defective materials or workmanship in an acceptable manner, without cost to the Owner. Warranty period shall be for one (1) year unless specified longer for specific equipment. Date of warranty start shall be from substantial completion and beneficial use.

17. Contractor will obtain a building permit for his portion of the work.

18. Contractor to provide pitch pans and penetrations required for electrical items which pierce roof whether or not shown on Drawings.

19. Contractor to Furnish and install reinforced concrete pads for equipment as required.

20. In general, all similar equipment is to be supplied and manufactured by same Manufacturer, but must be submitted and approved equal to that specified.

21. Locate all openings required for work performed under this section. Provide sleeves, guards or other approved methods to allow passage of items installed under this section.

22. Provide switched supply with-in 36" of equipment supplied and installed by other contractors. Motor starters and controls will be provided by others (except where noted) to be installed by the Electrical Contractor.

23. Wherever the Contractor provides power consuming equipment which differs from Contract Documents, the wiring and associated circuit components for such equipment shall be changed to proper sizes to match at additional expense to Owner.

24. It is the Contractor's responsibility to coordinate the exact required location of floor outlets, floor ducts, floor stub-ups, etc., with Owner and Architect and receive approval prior to rough in. Locations shown on plans are only approximate locations.

ELECTRICAL - GENERAL REQUIREMENTS

1. Wire sizes are #12 THWN unless noted otherwise on Drawings or Schedules or if larger size is required for equipment furnished.

2. Code sized green grounding conductor is to be provided for all branch circuits.

3. Provide cable strain relief for feeders in risers. Install access panels where required.

4. Coordinate power locations with owner.

5. Coordinate with other subsif required for complete, proper operation and installation of all equipment.

6. Multi-section branch circuit panelboards are shown as individual panels on panel schedules. Circuit numbering indicated on drawings reflect consecutive numbering for single panel.

ELECTRICAL - GENERAL CONSTRUCTION NOTES

1. Electrical Contractor shall coordinate his work with other trades in order to avoid conflicts.

2. The minimum conduit size shall be 1/2".

1.

3. Voltage drop minimum wire sizing (20A circuit) use -

- 120V circuit over 100' use #10 minimum
- 208V circuit over 200' use #10 minimum 2
- 3. 277V circuit over 200' use #10 minimum

Minimum branch circuit wire size shall be #12.

4. All openings in fire rated walls, floor and partitions for conduits shall be sealed with fire resistant foam or UL approved "Fire Stop" system to maintain the fire rating.

5. All wiring will be in "MC" cable as by code. Underground conduit will be Sched 40 PVC with fittings, conduit above grade installed is to be EMT.

6. Electrical Contractor shall have the option of grouping homeruns in one conduit, per the requirements of Section 310 of the National Electrical Code.

ELECTRICAL - GENERAL REQUIREMENTS

8. Utility company fees by others.

9. All circuits indicated on these drawings are 20A, 1P circuit breakers in panels unless otherwise noted.

10. No conduit shall be installed exposed in area open to the public.

11. Outlet boxes for receptacles shall be mounted 18" above finish slab unless noted otherwise

12. All dimensions indicated are to centerline of junction boxes, floor boxes, etc., unless otherwise noted. Refer to Interior Drawings for all dimensions.

13. The work "provide" shall mean "to furnish and install".

16. A.F.F. = Above Finished Floor U.N.O. = Unless Noted Otherwise B.E.C. = Building Electrical Contractor F.C. = Fixture Contractor

NO.	REVISIONS	DATE REV' APP' D D				DA	ATE	11/28/18
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			DESIGNED	Building Value		IOL)R#	
			James Pierson	ABM ELECTRICAL POWER SERVICES	HEALTH CAMPUS			NTS
				14201 FRANKLIN AVE.	2180 JOHNSON AVENUE	SHI	IEET	9
			CHECK ED-	TUSTIN, CA 92780	SAN LUIS OBISPO, CA	SHE	EET #	9

APPENDIX E-3: EVSE Accessibility Requirements

See next 7 pages.



2016 California Building Code Accessibility Requirements for Electric Vehicle Charging Station

<u>Intro</u>

This document includes excerpts from the 2016 California Building Code (CBC) updates that pertain to new accessibility regulations for Electric Vehicle Charging Station (EVCS) installations. The information was compiled from the <u>guidance document</u> released for Federal Resources, which covers applicable codes for public buildings, public accommodations, commercial buildings (including workplaces), and public housing. Additional resources are available here:

http://www.dgs.ca.gov/dsa/Programs/progAccess/evcs.aspx

The excerpts in this document are not comprehensive. We strongly encourage reviewing the full CBC guidelines for accessibility requirements related to EVCS installations and designs. Some of the codes in in this document reference broader ADA requirements that are not included in the excerpts. We therefore recommend referring to **Chapter 11B** of the 2016 CBC as well since it is the authoritative source of information about EVCS accessibility requirements.

The full text from Chapter 11B is available here: https://codes.iccsafe.org/public/public/chapter/content/10003/

2016 CBC Excerpts for EVCS Accessibility Requirements & Designs

11B-207.1 General. Means of egress shall comply with *Chapter 10, Section 1009*. **Exceptions:**

1. Where means of egress are permitted by local building or life safety codes to share a common path of egress travel, accessible means of egress shall be permitted to share a common path of egress travel.

2. Areas of refuge shall not be required in detention and correctional facilities.

11B-207.2 Platform lifts. Standby power shall be provided for platform lifts permitted by *Chapter 10, Section 1009.5* to serve as a part of an accessible means of egress. To ensure continued operation in case of primary power loss, platform lifts shall be provided with standby power or with self-rechargeable battery power that provides sufficient power to operate all platform lift functions for a minimum of five upward and downward trips.

11B-208.1 General. Where parking spaces are provided, parking spaces shall be provided in accordance with Section 11B-208. For the purposes of this section, electric vehicle charging stations are not parking spaces; see Section 11B-228.

11B-208.2.3 Residential facilities. Parking spaces provided to serve residential facilities shall comply with *Section 11B*-208.2.3.

11B-208.2.3.1 Parking for residents. Where at least one parking space is provided for each residential dwelling unit, at least one parking space complying with *Section 11B*-502 shall be provided for each



residential dwelling unit required to provide mobility features complying with *Sections 11B*-809.2 through *11B*

809.4. Where fewer than one parking space is provided for each residential dwelling unit, parking spaces complying with Section 11B-502 shall be provided in accordance with Table 11B-208.2.

11B-203.9 Employee workstations. Employee workstations shall be on an accessible route complying with Division 4. Spaces and elements within employee workstations shall only be required to comply with Sections 11B-207.1, 11B-215.3

11B-208.2.3.3 Parking for guests, employees, and other non-residents. Where parking spaces are provided for persons other than residents, parking shall be provided in accordance with Table *11B*-208.2.

Note: When assigned parking is provided, Chapter 11A indicates designated accessible parking for the adaptable residential dwelling units shall be provided on requests of residents with disabilities on the same terms and with the full range of choices (e.g., off-street parking, carport or garage) that are available to other residents

TOTAL NUMBER OF PARKING SPACES PROVIDED IN	MINIMUM NUMBER OF REQUIRED ACCESSIBLE
PARKING FACILITY	PARKING SPACES
1 to 25	1
26 to 50	2
51 to 75	3
76 to 100	4
101 to 150	5
151 to 200	6
201 to 300	7
301 to 400	8
401 to 500	9
501 to 1000	2 percent of total
1001 and over	20, plus 1 for each 100, or fraction thereof, over 1000

TABLE 11B-208.2 PARKING SPACES

11B-228 Depositories, vending machines, change machines, mail boxes, fuel dispensers, and electric vehicle charging stations.

11B-228.1 General. Where provided, at least one of each type of depository, vending machine, change machine, and fuel dispenser shall comply with *Section 11B-*309. *Electric vehicle charging stations shall comply with Section 11B-*228.3.

11B-228.3 Electric vehicle charging stations

11B-228.3.1 General. Where electric vehicle charging stations (EVCS) are provided, EVCS shall be provided in accordance with Section 11B-228.3.



11B-228.3.1.1 Existing facilities. Where new EVCS are added to a facility with existing EVCS, the requirements of Section 11B-812 shall apply only to the new EVCS installed. Alterations to existing EVCS shall comply with Section 11B-228.3.

11B-228.3.1.2 Operable parts. Where EV chargers are provided, operable parts on all EV chargers shall comply with Section 11B-309.4.

11B-228.3.2 Minimum number. EVCS complying with Section 11B-812 shall be provided in accordance with Section 11B-228.3.2. Where EVCS are provided in more than one facility on a site, the number of EVCS complying with Section 11B-228.3.2 provided on the site shall be calculated according to the number required for each facility. Where an EV charger can simultaneously charge more than one vehicle, the number of EV chargers provided shall be considered equivalent to the number of electric vehicles that can be simultaneously charged.

Exceptions:

- 1. EVCS not available to the general public and intended for use by a designated vehicle or driver shall not be required to comply with Section 11B-228.3.2. Examples include, but are not limited to, EVCS serving public or private fleet vehicles and EVCS assigned to an employee.
- 2. In public housing facilities, EVCS intended for use by an EV owner or operator at their residence shall not be required to comply with Section 11B-228.3.2.

11B-228.3.2.1 Public use or common use EVCS.

Where EVCS are provided for public use or common use, EVCS complying with Section 11B-812 shall be provided in accordance with Table 11B-228.3.2.1. Where new EVCS are installed in facilities with existing EVCS, the "Total Number of EVCS at a Facility" in Table 11B-228.3.2.1 shall include both existing and new EVCS.

Exception: All drive-up EVCS shall comply with Section 11B-812.

TOTAL NUMBER OF EVCS AT A FACILITY (1)	MINIMUM NUMBER (by type) OF EVCS REQUIRED TO COMPLY WITH SECTION 11B-8121						
EVCS AT A FACILITY (1)	Van Accessible	Standard Accessible	Ambulatory				
1 to 4	1	0	0				
5 to 25	1	1	0				
26 to 50	1	1	1				
51 to 75	1	2	2				
76 to 100	1	3	3				
101 and over	1, plus 1 for each 300, or fraction thereof, over 100	3, plus 1 for each 60, or fraction thereof, over 100	3, plus 1 for each 50, or fraction thereof, over 100				

TABLE 11B-228.3.2.1 ELECTRIC VEHICLE CHARGING STATIONS FOR PUBLIC USE AND COMMON USE

(1) Where an EV charger can simultaneously charge more than one vehicle, the number of EVCS provided shall be considered equivalent to the number of electric vehicles that can be simultaneously charged.

11B-812 Electric vehicle charging stations

11B-812.1 General. Electric vehicle charging stations (EVCS) shall comply with Section 11B-812 as required by Section 11B-228.3. Where vehicle spaces and access aisles are marked with lines, measurements shall be made from the centerline of the markings.



Exception: Where vehicle spaces or access aisles are not adjacent to another vehicle space, access aisle, or parking space, measurements shall be permitted to include the full width of the line defining the vehicle space or access aisle.

11B-812.2 Operable parts. Operable parts shall comply with Section 11B-309.

11B-812.3 Floor or ground surfaces. Vehicle spaces and access aisles serving them shall comply with Section 11B-302. Access aisles shall be at the same level as the vehicle space they serve. Changes in level, slopes exceeding 1:48, and detectable warnings shall not be permitted in vehicle spaces and access aisles.

11B-812.4 Vertical clearance. Vehicle spaces, access aisles serving them, and vehicular routes serving them shall provide a vertical clearance of 98 inches (2489 mm) minimum. Where provided, overhead cable management systems shall not obstruct required vertical clearance.

11B-812.5 Accessible routes

11B-812.5.1 Accessible route to building or facility.

EVCS complying with Section 11B-812 that serve a particular building or facility shall be located on an accessible route to an entrance complying with Section 11B-206.4. Where EVCS do not serve a particular building or facility, EVCS complying with Section 11B-812 shall be located on an accessible route to an accessible pedestrian entrance of the EV charging facility.

Exception: EVCS complying with Section 11B-812 shall be permitted to be located in different EV charging facilities if substantially equivalent or greater accessibility is provided in terms of distance from an accessible entrance or entrances, charging fee, and user convenience.

11B-812.5.2 *Accessible route to EV charger.* An accessible route complying with Section 11B-402 shall be provided between the vehicle space and the EV charger which serves it.

11B-812.5.3 Relationship to accessible routes. Vehicle spaces and access aisles shall be designed so that when the vehicle space is occupied the required clear width of adjacent accessible routes is not obstructed. A curb, wheel stop, bollards, or other barrier shall be provided if required to prevent encroachment of vehicles over the required clear width of adjacent accessible routes.

11B-812.5.4 Arrangement. Vehicle spaces and access aisles shall be designed so that persons using them are not required to travel behind vehicle spaces or parking spaces other than the vehicle space in which their vehicle has been left to charge.

Exceptions:

- 1. Ambulatory EVCS shall not be required to comply with Section 11B-812.5.4.
- 2. Vehicle spaces installed in existing facilities shall comply with Section 11B-812.5.4 to the maximum extent feasible.

11B-812.5.5 Obstructions. EVCS shall be designed so accessible routes are not obstructed by cables or other elements.

11B-812.6 Vehicle spaces. Vehicle spaces serving van accessible, standard accessible, ambulatory and drive-up EVCS shall be 216 inches (5486 mm) long minimum and shall com ply with Sections 11B-812.6.1 through 11B-812.6.4 as applicable. All vehicle spaces shall be marked to define their width. **Exceptions:**

1. Where the long dimension of vehicle spaces is parallel to the traffic flow in the adjacent vehicular way, the length of vehicle spaces shall be 240 inches (6096 mm) minimum.



2. Vehicle spaces at drive-up EVCS shall be 240 inches (6096 mm) long minimum and shall not be required to be marked to define their width.

11B-812.6.1 Van accessible. Vehicle spaces serving van accessible EVCS shall be 144 inches (3658 mm) wide minimum and shall have an adjacent access aisle complying with Section 11B-812.7. **11B-812.6.2 Standard accessible.** Vehicle spaces serving standard accessible EVCS shall be 108 inches

(2743 mm) wide minimum and shall have an adjacent access aisle complying with Section 11B-812.7. **11B-812.6.3 Ambulatory.** Vehicle spaces serving ambulatory EVCS shall be 120 inches (3048 mm) wide minimum and shall not be required to have an adjacent access aisle.

11B-812.6.4 Drive-up. Vehicle spaces serving drive-up EVCS shall be 204 inches (5182 mm) wide minimum and shall not be required to have an adjacent access aisle.

11B-812.7 Access aisle. Access aisles shall adjoin an accessible route. Two vehicle spaces shall be permitted to share a common access aisle. Access aisles shall be 60 inches (1524 mm) wide minimum and shall extend the full required length of the vehicle spaces they serve.

11B-812.7.1 Location. Access aisles at vehicle spaces shall not overlap the vehicular way and may be placed on either side of the vehicle space they serve except for van accessible spaces which shall have access aisles located on the passenger side of the vehicle spaces.

11B-812.7.2 Marking. Access aisles at vehicle spaces shall be marked with a painted borderline around their perimeter. The area within the borderlines shall be marked with hatched lines a maximum of 36 inches (914 mm) on center. The color of the borderlines, hatched lines, and letters shall contrast with that of the surface of the access aisle. The blue color required for identification of access aisles for accessible parking shall not be used. Access aisle markings may extend beyond the minimum required length.

11B-812.7.3 Lettering. The words "NO PARKING" shall be painted on the surface within each access aisle in letters a minimum of 12 inches (305 mm) in height and located to be visible from the adjacent vehicular way.

11B-812.8 *Identification signs. EVCS identification signs shall be provided in compliance with Section* 11B-812.8.

11B-812.8.1 Four or fewer. Where four or fewer total EVCS are provided, identification with an International Symbol of Accessibility (ISA) shall not be required **11B-812.8.2 Five to twenty-five.** Where five to twenty-five total EVCS are provided, one van accessible EVCS shall be identified by an ISA complying with Section 11B

703.7.2.1. The required standard accessible EVCS shall not be required to be identified with an ISA. **11B-812.8.3 Twenty-six or more.** Where twenty-six or more total EVCS are provided, all required van accessible and all required standard accessible EVCS shall be identified by an ISA complying with Section 11B-703.7.2.1.

11B-812.8.4 Ambulatory. Ambulatory EVCS shall not be required to be identified by an ISA.

11B-812.8.5 Drive-up. Drive-up EVCS shall not be required to be identified by an ISA.

11B-812.8.6 Finish and size. Identification signs shall be reflectorized with a minimum area of 70 square inches (45 161 mm²).

11B-812.8.7 Location. Required identification signs shall be visible from the EVCS it serves. Signs shall be permanently posted either immediately adjacent to the vehicle space or within the projected vehicle space width at the head end of the vehicle space. Signs identifying van accessible vehicle spaces shall contain the designation "van accessible." Signs shall be 60 inches (1525 mm) minimum above the finish



floor or ground surface measured to the bottom of the sign. Signs located within an accessible route shall be 80 inches (2032 mm) minimum above the finish floor or ground surface measured to the bottom of the sign. Signs may also be permanently posted on a wall at the interior end of the vehicle space.

11B-812.9 Surface marking. EVCS vehicle spaces shall provide surface marking stating "EV CHARGING ONLY" in letters 12 inches (305 mm) high minimum. The centerline of the text shall be a maximum of 6 inches (152 mm) from the centerline of the vehicle space and its lower corner at, or lower side aligned with, the end of the parking space length.

11B-812.10 Electric vehicle chargers

11B-812.10.1 General. EV chargers shall comply with Section 11B-812.10.

11B-812.10.2 Operable parts. Operable parts and charging cord storage shall comply with Section 11B-309.

11B-812.10.3 Point-of-sale devices. Where provided, pointof-sale devices shall comply with Sections 11B-707.2, 11B707.3, 11B-707.7.2, and 11B-707.9.

11B-812.10.4 Location. EV chargers shall be adjacent to, and within the projected width of, the vehicle space being served.

Exceptions:

1. *EV chargers serving more than one EVCS shall be adjacent to, and within the combined projected width of, the vehicle spaces being served.*

2. For alterations at existing facilities where an accessible route or general circulation path is not provided adjacent to the head end of the vehicle space or access aisle, the EV charger may be located within the projected width of the access aisle 36 inches (914 mm) maximum from the head end of the space.

3. Where the long dimension of a vehicle space is parallel to the vehicular way, the EV charger shall be adjacent to, and 48 inches (1219 mm) maximum from the head end or foot end of the vehicle space or access aisle being served.



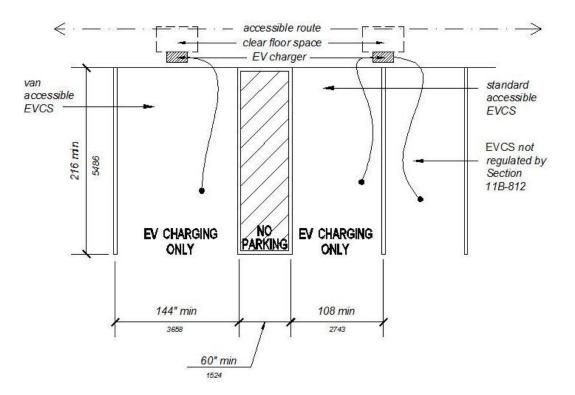


FIGURE 11B-812.9. SURFACE MARKING

APPENDIX F-1: Summary of Task 6 Outreach Activities

See next 10 Pages.

Appendix F-1 ZEV Awareness Events

Event #	County	DAC/LIC	Event Date	ZEV Showcase Location	Test Drive	Workshop	Outreach Contacts	Number of Vehicles
1	Santa Barbara		09/17/2017	California Lemon Festival 7050 Phelps Rd Goleta, CA 93117	No	No	250	8
2	San Luis Obispo	Yes - LIC	01/18/2018	Veteran's Hall 801 Grand Ave San Luis Obispo, CA 93401	Yes	Yes	30	7
3	San Luis Obispo		04/21/2018	2018 SLO Earth Day Festival Laguna Lake Park Dalidio Dr San Luis Obispo, CA 93405	No	No	200	10
4	Santa Barbara		04/21/2018 04/22/2018	Santa Barbara Earth Day Festival Alameda Park 1400 Santa Barbara St Santa Barbara, CA 93101	Yes	No	15,000	24

ZEV Showcases (Static Displays) Event Summary

Event #	County	DAC/LIC	Event Date	ZEV Showcase Location	Test Drive	Workshop	Outreach Contacts	Number of Vehicles
5	Ventura		04/28/2018	Earth Arbor Day Festival 1401 East Janss Road Thousand Oaks, CA 91362	Yes	Yes	60	7
6	San Luis Obispo		05/18/2018	Paso Robles Joint Unified School District 2910 Union Road Paso Robles, CA 93446	Yes	Yes	30	3
7	Ventura	Yes - DAC	07/04/2018	Ventura 4th of July Street Fair60 S California StVentura, CA 93001	No No		3,000	11
8	Santa Barbara		09/13/2018	UC Santa Barbara NDEW Design, Facilities & Safety Services Building 594 Santa Barbara, CA 93106-1030	No Yes		26	9
9	Santa Barbara		09/13/2018	UC Santa Barbara NDEW 2400 Bren Hall, Rm 1424 Santa Barbara, CA 93106-5131	No	Yes	39	9
10	Santa Barbara		09/13/2018	UC Santa Barbara NDEW Housing, Dining & Auxiliary Enterprises 1501 Residential Services Santa Barbara, CA 93106	No	Yes	13	9

Event #	County	DAC/LIC	Event Date	ZEV Showcase Location	Test Drive	Workshop	Outreach Contacts	Number of Vehicles
11	San Luis Obispo	Yes -LIC	09/13/2018	San Luis Obispo Farmer's Market 1022 Morro Street San Luis Obispo, CA 93401	No	No	300	18
12	Santa Barbara	Yes - LIC	09/16/2019	2018 Fiesta Patrias 142 Town Center W Santa Maria, CA 93458	No	No	250	8
13	Ventura	Yes - DAC	10/06/2018	Multicultural Festival Plaza Park 500 S C St Oxnard, CA 93030	Yes	No	50	4

				ZEV Test Drive Event	Summary				
Event #	County	DAC/LIC	Date	ZEV Test Drive Location	Static Display	Workshop	Number of Participants	Number of Test-Drives	Vehicle Makes & Models
1	San Luis Obispo		09/21/2017	San Luis Obispo APCD 3433 Roberto Court San Luis Obispo, CA 93401	No	Yes	18	5	Toyota Mirai (3) Honda Clarity (1)
2	San Luis Obispo	Yes - LIC	01/18/2018	Veteran's Hall 801 Grand Ave San Luis Obispo, CA 93401	Yes	Yes	25	8	Chevrolet Bot (1) Chevrolet Volt (1) BMW i3 (1) Honda Clarity PEV (2)
3	Santa Barbara		4/21/2018 4/22/2018	Santa Barbara Earth Day Festival Alameda Park 1400 Santa Barbara St Santa Barbara, CA 93101	Yes	No	248	Day 1: 115 Day 2: 133 Total: 248	Toyota Mirai (2) Toyota Prius Plug-In (1) Nissan LEAF (1) Chrysler Pacifica (1)
4	Ventura		04/28/2018	Earth Arbor Day Festival 1401 East Janss Road Thousand Oaks, CA 91362	Yes	Yes	28	32	Toyota Mirai
5	San Luis Obispo		05/18/2018	Paso Robles Joint Unified School District 2910 Union Road Paso Robles, CA 93446	Yes	Yes	30	3	Lion electric bus Type C (1) Green Power Synapse (1)

Event #	County	DAC/LIC	Date	ZEV Test Drive Location	Static Display	Workshop	Number of Participants	Number of Test-Drives	Vehicle Makes & Models
6	Ventura	Yes - DAC	10/06/2018	Multicultural Festival Plaza Park 500 S C St Oxnard, CA 93030	Yes	No	15	15 Ride-alongs only	Nissan LEAF Chevy Volt

				ZEV Workshop Event Sur	nmary				
Event #	County	County DAC/LIC		Location	Static Display	Test Drive	Number of Attendees	Focus	
1	San Luis Obispo		9/21/2017	San Luis Obispo APCD 3433 Roberto Court San Luis Obispo, CA 93401	No	Yes	18	Hydrogen & FCEVs	
2	Ventura		11/17/2017	Oxnard Lions Club Noontimers Meeting 600 E Esplanade Dr Oxnard, CA 93036	No	No	33	ZEV Awareness	
3	San Luis Obispo	Yes - LIC	1/18/2018	Veteran's Hall 801 Grand Ave San Luis Obispo, CA 93401	Yes	Yes	25	ZEV Fleets	
4	Ventura		4/28/2018	Earth Arbor Day Festival 1401 East Janss Road Thousand Oaks, CA 91362	Yes	Yes	25	ZEV Awareness	
5	San Luis Obispo		5/18/2018	Paso Robles Joint Unified School District 2910 Union Road Paso Robles, CA 93446	Yes	Yes	30	ZEV School Buses	
6	Santa Barbara		8/1/2018	UC Santa Barbara Santa Barbara, CA 93106	No	No	49	ZEV Awareness	
7	Santa Barbara	Yes - LIC	8/8/2018	COAST General Meeting 11 East Carrillo Street Santa Barbara, CA 93101	No	No	15	ZEV Awareness	

Event #	County	DAC/LIC	Date	Location	Static Display	Test Drive	Number of Attendees	Focus
8	Santa Barbara		09/13/2018	UC Santa Barbara NDEW Design, Facilities & Safety Services Building 594 Santa Barbara, CA 93106- 1030	Yes	No	26	ZEV Awareness
9	Santa Barbara		09/13/2018	UC Santa Barbara NDEW 2400 Bren Hall, Rm 1424 Santa Barbara, CA 93106- 5131	Yes	No	39	ZEV Awareness
10	Santa Barbara		09/13/2018	UC Santa Barbara NDEW Housing, Dining & Auxiliary Enterprises 1501 Residential Services Santa Barbara, CA 93106	Yes	No	13	ZEV Awareness
11	Santa Barbara	Yes - LIC	3/19/2019	WebEx Webinar	NA	NA	11	EV Charging Infrastructure
12	San Luis Obispo	Yes - LIC	3/26/2019	WebEx Webinar	NA	NA	12	EV Charging Infrastructure
13	Ventura	Yes - DAC	3/28/2019	Zoom Webinar	NA	NA	10	EV Charging Infrastructure

Appendix F-4 Direct Stakeholder Engagement Impact by City & County

The complete list of more than 400 candidate sites for EVSE infrastructure development is available for download at: https://www.dropbox.com/s/hd5s87swx559rc1/Appendix6.4_Data-NO_CONTACT_INFO.xlsx?dl=0

This linked list omits the personal information collected for direct outreach to comply with the Information Practices Act (IPA), as codified in California Civil Code sections 1798 et seq. Personal Information is defined in the IPA at Civil Code section 1798.3(a).

To download the list, follow the link and click on the "..." in the upper right-hand corner of the webpage (next to the blue "Share" button). If you have any issues accessing the list via Dropbox or would like to submit a request for a version of the list that includes personal information for site contacts, please call or email:

Cameron Gray Transportation & Climate Program Manager Community Environmental Council cgray@cecmail.org (805) 963-0583 Ext. 111

County City	Employer/Workplace	Fleet	Government	MUD	School	Public/Commercial Destination	Grand Total
San Luis Obispo	11	4	5	4	5	6	35
Arroyo Grande	2			1		1	4
Atascadero	1						1
Baywood-Los Osos					1		1
Cambria							
Cayucos							
Grover Beach							
Los Osos	1						1
Morro Bay					1		1
Oceano							

Number of EVSE Outreach Counts by County and City

Paso Robles	2			1	1	2	6
Pismo Beach	1						1
San Luis Obispo	3	3	5	2	2	2	17
San Miguel						1	1
San Simeon		1					1
Shandon							
Templeton	1						1
Santa Barbara	4	5	10	5	10	3	37
Carpinteria							
Goleta	1	1	2	1			5
Guadalupe			1	1	1	1	4
Lompoc	1		1		1	2	5
Los Olivos							
New Cuyama			1				1
Orcutt					1		1
Santa Barbara	1	2	2	3	5		13
Santa Maria	1	2	2		2		7
Santa Ynez							
Solvang			1				1
Vandenberg AFB							
Ventura	25	2	7		17		51
Camarillo	4		1		3		8
Fillmore					1		1
Moorpark	2				2		4
Newbury Park	1						1
Oak View							
Ojai	1						1
Oxnard	5	1	2		5		13
Point Mugu							
Port Hueneme	1		1				2

Grand Total	40	11	22	9	32	9	123
Westlake Village	1						1
Ventura	4	1	2		2		9
Thousand Oaks	3		1		1		5
Simi Valley	3				1		4
Santa Paula					2		2

APPENDIX F-2: Multilingual Outreach Materials

See next page.

Appendix F-2 Multilingual Outreach Materials

Available to view or download at: <u>https://www.dropbox.com/sh/6t3bwy81xmjihxk/AAATt6CYygdIFLnQXaPF7hZ8a?dl=0</u>

To download the print martials via Dropbox, follow the link and click on the "..." in the far left-hand column of each PDF file's row. If you have any issues accessing the PDF files via Dropbox, please contact:

Cameron Gray Transportation & Climate Program Manager Community Environmental Council <u>cgray@cecmail.org</u> (805) 963-0583 Ext. 111

APPENDIX F-3: Sample Workshop Presentation

See next page.

Appendix F-3 Sample Workshop Presentation

Available for download at: <u>https://www.dropbox.com/s/6g3ck01y5bfil0z/09-13-2018_FINAL-UCSB_ElectricDrive805.pptx?dl=0</u>

To download the presentation via Dropbox, follow the link and click on the "..." in the upper right-hand corner of the webpage (next to the blue "Share" button). If you have any issues accessing the slides, please contact:

Cameron Gray Transportation & Climate Program Manager Community Environmental Council cgray@cecmail.org (805) 963-0583 Ext. 111

APPENDIX F-4: Direct Stakeholder Engagement Impact by City & County

See next 3 pages.

Appendix F-4 Direct Stakeholder Engagement Impact by City & County

The complete list of more than 400 candidate sites for EVSE infrastructure development is available for download at: https://www.dropbox.com/s/hd5s87swx559rc1/Appendix6.4_Data-NO_CONTACT_INFO.xlsx?dl=0

This linked list omits the personal information collected for direct outreach to comply with the Information Practices Act (IPA), as codified in California Civil Code sections 1798 et seq. Personal Information is defined in the IPA at Civil Code section 1798.3(a).

To download the list, follow the link and click on the "..." in the upper right-hand corner of the webpage (next to the blue "Share" button). If you have any issues accessing the list via Dropbox or would like to submit a request for a version of the list that includes personal information for site contacts, please call or email:

Cameron Gray Transportation & Climate Program Manager Community Environmental Council cgray@cecmail.org (805) 963-0583 Ext. 111

County City	Employer/Workplace	Fleet	Government	MUD	School	Public/Commercial Destination	Grand Total
San Luis Obispo	11	4	5	4	5	6	35
Arroyo Grande	2			1		1	4
Atascadero	1						1
Baywood-Los Osos					1		1
Cambria							
Cayucos							
Grover Beach							
Los Osos	1						1
Morro Bay					1		1
Oceano							

Number of EVSE Outreach Counts by County and City

Paso Robles	2			1	1	2	6
Pismo Beach	1						1
San Luis Obispo	3	3	5	2	2	2	17
San Miguel						1	1
San Simeon		1					1
Shandon							
Templeton	1						1
Santa Barbara	4	5	10	5	10	3	37
Carpinteria							
Goleta	1	1	2	1			5
Guadalupe			1	1	1	1	4
Lompoc	1		1		1	2	5
Los Olivos							
New Cuyama			1				1
Orcutt					1		1
Santa Barbara	1	2	2	3	5		13
Santa Maria	1	2	2		2		7
Santa Ynez							
Solvang			1				1
Vandenberg AFB							
Ventura	25	2	7		17		51
Camarillo	4		1		3		8
Fillmore					1		1
Moorpark	2				2		4
Newbury Park	1						1
Oak View							
Ojai	1						1
Oxnard	5	1	2		5		13
Point Mugu							
Port Hueneme	1		1				2

Grand Total	40	11	22	9	32	9	123
Westlake Village	1						1
Ventura	4	1	2		2		9
Thousand Oaks	3		1		1		5
Simi Valley	3				1		4
Santa Paula					2		2

APPENDIX G-1: Compiled Emergency Response Manuals

Compiled emergency response manuals are available on the SLOCAPCD website <u>https://www.slocleanair.org/community/zev.php</u>.

APPENDIX G-2: Training Materials Used and Course Reports

Training materials can be accessed through the following link: <u>h2tools.org/training-materials</u>.

See next three pages for Course Reports.

Hydrogen Training for First Responders San Luis Obispo Tuesday, August 20, 2019

Jennifer Hamilton - CaFCP

Attendees included 14 Firemen, and two independent Consultants

FineAighters: 141 144 1111

Hydrogen training for First Responders San Luis Obispo August 20, 2019

Jennifer Hamilton, California Fuel Cell Partnership

Agency			Attendees	Notes
City of San Luis Obis	00 V	1	Mike King 17K-	
	~	2	John King Ales	FLADS PSD
	1	3	Kenny Johnston	
SLO County Fire	V	1	Chris Weber	
	1	2	Rayen Colder	242 X
Five Cities Fire	~	1	Brian Salce	211
CalFire	V	1	Clint Marsaleh	
Michael Deleu	1	2	Grey Kudlac	
Vaniel Collins	J	3	KELDY JELKER	
	V	4	MATISANTOLO	
Melissa Guise	1	1	Melissa	
Ivor John	1	1	Ivor	

Hosted by San Luis Obispo Air Pollution Control District 3343 Roberto Court San Luis Obispo, CA

K Martin Kniz GTA23 CALFING SLY

, mad

* RYAN LEE STA 23 CAL FIRE SLV

10/29/19 Hydrogen Safety Training for First Responders Name Alex Economou Santa Barbara County APCD JACK AMSTONG ALSEFETY Brooke Farrel Sundacher Sisterrability Santa Barbara APCD Office. 10/29/19 Train-the-Mainer hed by Ivor John, Phd Independent Environmentral Consultant Tash 7: CEC GFO - AVR-16-015 GFO-16-601

Scanned with CamScanner

Hydrogen Safety Training for First Responders

BACKGROUND

Hydrogen awareness and hydrogen emergency response capabilities are becoming increasingly important as more hydrogen (fuel-cell) cars are added to our roads, and more hydrogen stations are being built across the country. A suitably trained emergency response force is critical to support expand the fuel cell infrastructure. These essential personnel need to understand how to respond to a hydrogen incident. In addition, firefighters and other emergency responders are highly respected in their communities and can positively influence the introduction of hydrogen and fuel cell vehicles into local markets.

LOCAL TRAINING

Through funding from the California Energy Commission, the local Air Pollution Control Districts (APCDs) have contracted with Jennifer Hamilton of Frontier Energy (and the California Fuel Cell Partnership) to provide two one-day "Train the Trainer" sessions in San Luis Obispo and Santa Barbara on Tuesday and Wednesday, August 20th and 21st, respectively. The training is intended for first responder personnel from Santa Barbara, Ventura and/or San Luis Obispo Counties, but is also open to other trainers and agency personnel if interested.

TRAINING COURSE

The basis for the Train the Trainer presentation is the National Hydrogen and Fuel Cells Emergency Response Training Resource, and is available for download on <u>h2tools.org</u>. At least one fuel cell electric vehicle will be available for viewing, and a tour of the Santa Barbara hydrogen station is being planned for the Santa Barbara training.

- **Classroom Portion (4 hours)** this will provide in-depth information on the properties of hydrogen, how fuel cells work, how the vehicles and stations operate, safety elements of the vehicles and the stations, and response considerations including incident scenarios. The goal is to provide sufficient training and the resources needed for attendees to conduct further training locally as the need arises.
- Fuel Cell Vehicle Display and Orientation (1 hour) this will include a walk around a Toyota Mirai to provide an orientation to the fuel cell vehicle and its essential safety features.
- Hydrogen Station Visit (Santa Barbara only) (1 hour) this portion of the training is optional and will
 provide a walk-through of the station on La Cumbre at Five Points (to be confirmed).

San Luis Obispo	Santa Barbara			
Tuesday, August 20, 2019	Wednesday, August 21, 2019			
9:00am to 3:00pm	9:00am to 3:00pm			
San Luis Obispo County APCD	Santa Barbara County APCD			
3433 Roberto Court	260 N San Antonio Rd, Suite A			
San Luis Obispo, CA 93401	Santa Barbara, CA 93110-1315			

This is a FREE class, and a light lunch will be provided. To sign up, please email Ivor John at <u>ivorjohn@cox.net</u> indicating which day you plan to attend, or call Ivor at 805-451-8162.



APPENDIX H: List of Interested Station Owners and Installers Expressing Interest of Hydrogen Infrastructure

See next 2 pages.

Table of Fuel Stations in San Luis Obispo County Indicating Ownership Interest

List #	Facility_Name	Site_Addr	City	Zip	Proximity to Freeway	Forecourt Space	Appearance/ Neighborhood	Ease of Acccess	
1	Mission Station, Inc.	328 Marsh Street	San Luis Obispo	93401	Excellent	Sufficient	Good	Excellent	Chevron brand, independe
2	Chevron # 98169 (Trett's)	3180 S. Broad Street	San Luis Obispo	93401	Bit far	Plenty	Excellent	Excellent	Chevron, Corporate (San Ra
3	Refuel	2211 Broad Street	San Luis Obispo	93401	Bit far	Sufficient	Good	Good	Same Owner as Santa barb
4	Shell/Tesoro Station No. 68613	296 Santa Rosa Street	San Luis Obispo	93405	Excellent	Plenty	Good	Excellent	Complex - Shell brand but
5	Chevron - BNB Gas & Mart	12424 Los Osos Valley Rd	San Luis Obispo	93405	Excellent	Limited	Okay	Fair	Independent Owner/opera
6	Chevron # 91717 (Foothill)	151 N Santa Rosa Street	San Luis Obispo	93405	Good	Ample	Good	Excellent	Chevron, Corporate (San Ra
7	Conserv Fuel	254 Santa Rosa Street	San Luis Obispo	93405	Excellent	Plenty	Excellent	Excellent	Same Owner as Santa barb
8	Edna Valley Shell	4021 Broad Street	San Luis Obispo	93401	Bit far	Plenty	Excellent	Excellent	Shell brand, independent o
9	Laguna Shell	11590 Los Osos Valley Rd	San Luis Obispo	93405	Bit far	Ample	Good	Excellent	Shell brand, independent o
10	Madonna Shell	204 Madonna Road	San Luis Obispo	93401	Excellent	Ample	Excellent	Excellent	Shell brand, independent o
11	San Luis Chevron dba Coast Investments, Inc.	2000 Monterey Street	San Luis Obispo	93401	Good	Very Limited	Okay	Fair	Chevron brand, independe
12	Shell/Tesoro Station No. 68614	3 Santa Rosa Street	San Luis Obispo	93405	Good	Ample	Good	Excellent	Complex - Shell brand but
13	Broad St. 76 Express	2015 Broad Street	San Luis Obispo	93401	Fair	Limited	Okay	Good	Independent, no interest
14	University Spirit Gas & Mini Mart	1756 Monterey Street	San Luis Obispo	93401	Good	No Space	Tight	Fair	Shell brand, no follow up as
15	John's 66 (Valero)	157 Higuera Street	San Luis Obispo	93401	Excellent	Ample	Okay	Good	Valero brand, owner motiv
16	ARCO - Arroyo Grande AM/PM	100 Barnett Street	Arroyo Grande	93420	Close	Good	Good	Good	
17	Mobil (Petro Grande)	525 Traffic Way	Arroyo Grande	93420	Close	ОК	ОК	Good	
18	Atascadero 76	6305 Morro Road	Atascadero	93422	Close	Good	Good	Good	
19	Chevron - Kautz	1284 Grand Avenue	Grover Beach	93433	No	Good	Good	Good	
20	Grover Beach Flyers	684 West Grand Avenue	Grover Beach	93433	Distant	Good	Good	Good	
21	Five Cities Chevron	340 Five Cities Drive	Pismo Beach	93449	Close	Good	Good	Good	
22	Spyglass Shell (AU Energy)	2699 Shell Beach Road	Pismo Beach	93449	Close	Good	Fair	Good	

Ownership
dent, previous application to CEC (Hygen)
n Ramon)
arbara station (favorable)
ut property owned by Tesoro/Conoco
erator (Chevron brand)
n Ramon)
arbara station (favorable)
t owner
t ownership (same as #10)
t ownership (same as #9)
dent, set back issues
ut property owned by Tesoro (same as #4)
t
o as site is inworkable
tivated if money can be made

List of Hydrogen Station Installers interested in Tri-Counties Opportunities

				Phone #	<u>Interest</u>	
1	ITM	sj@itm-power.com	Steve Jones	714-453-8141	High	definite interest
1	Nel/Everfuel	enupo@nelhydrogen.com	Eddie Nupoort	916-841-7262	High	Positive - Eddy plans to join webinar
1	Proton Onsite	szymanski@protononsite.com	steve zymanski	203-678-2338	High	Acquired by Nel - supplier of electrolyzers
1	Stratos	JMA@stratosfuel.com	John Avila	909-261-2632	High	Also Jonathon Palacos-Avila; planning to call in for webinar
2	Hydrogenics	rdelcore@hydrogenics.com	Rob Del Core	858-386-8930	Mid	Now part owned by Air Liquide
2	First Element	Shane.stephens@firstelementfuel.com	Shane Stevens	949-205-5553	Mid	Talked with Mike Strada - he says he'll be sure to let Shane know
2	Iwatani	jscappello@iwatani.com	Joseph Cappello	713-965-9970	Mid	office number
3	Air Liquide	bob.fourie@airliquide.com	Bob Fourie	713-624-8354	Low	Business Development for North America
3	Air Products	heydorec@airproducts.com	Brian Bonner		Low	Brian Bonner was on CEC Workshop 2/12/19; Ed Heydorn
3	Hygen	h24u@hygen.com	Paul Staples		Low	No contact details for owner
		nitin.natesan@linde.com	Nitin Natesan		Low	sold California interest to Iwatani
3	Shell-Equillon	W.leighty@shell.com	Wayne Leighty	(907) 223-1684	N/A	"Shell Hydrogen" hydrogen business development manager
3	United Hydrogen	Joe.gagliano@unitedhydrogen.com	Joe Gagliano	949-382-9517	Low	Joe is planning to join webinar
3	H2B2 USA LLC	joaquin.alarcon@h2b2.es	Joaquin Alarcon	314-478-7331	Low	CEC award for renewable hydrogen in SJV; office in Newport Beach
3	Advanced Emissions Ctrl	bgaffney@advancedemission.com	Bob Gaffney	559-472-7301	Low	Fresno
3	Advanced Emission Control Sc	sdavis@advancedemission.com	Stephen Davis	559-472-7301	Low	Fresno
3	Simple Fuel (Ivy's, Inc.)	darryl.pollica@ivysinc.com	Darryl Pollica -		Low	"Simple Fuel"
3	Simple Fuel (PDC Machines)	J.Petrecky@pdcmachines.com	Jim Petrecky -		Low	"Simple Fuel"
3	IMS	CGreth@imsinfo.com	Connor Greth		Low	Design firm
3	Trillium (Loves Truck Stops)	Ryan.Forrest@loves.com	Ryan Forrest		Low	
3	Cal State Los Angeles	michael.dray@calstatela.edu	Michael Dray	323.343.5293	Low	