



# County of San Diego

**MARK WARDLAW**  
DIRECTOR

PLANNING & DEVELOPMENT SERVICES  
5510 OVERLAND AVENUE, SUITE 310, SAN DIEGO, CA 92123  
(858) 505-6445 General • (858) 694-2705 Codes • (858) 565-5920 Building Services  
www.SDCPDS.org

**KATHLEEN A. FLANNERY**  
ASSISTANT DIRECTOR

December 31, 2020

TO: Supervisor Greg Cox, Chairman  
Supervisor Jim Desmond, Vice Chairman  
Supervisor Dianne Jacob  
Supervisor Kristin Gaspar  
Supervisor Nathan Fletcher

FROM: Mark Wardlaw, Director  
Planning & Development Services

## **ELECTRIC VEHICLE ROADMAP PROGRAM IMPLEMENTATION PROGRESS UPDATE**

### **Overview**

The County of San Diego's commitment to sustainability is highlighted in the County's Strategic Plan under the Sustainable Environments/Thriving initiative, which identifies "enhancing the quality of the environment by focusing on sustainability, pollution prevention and strategic planning" as County priorities. To further that commitment and improve air quality and health, and provide long-term economic benefits, on October 16, 2019 (2), the Board of Supervisors (Board) adopted the Electric Vehicle Roadmap (EV Roadmap), which includes strategies to increase electric vehicle (EV) ownership and use, install charging infrastructure, and identifies future grant opportunities to support recommendations.

As part of the EV Roadmap, the Board directed staff to report back annually on implementation efforts. This memorandum provides a summary of EV Roadmap implementation progress since October 2019. It is organized around the EV Roadmap's six goals, separated between County Operations Implementation and Unincorporated Area Implementation. Appendix A includes a summary table of completed actions and anticipated Fiscal Year 2020-2021 actions. Appendices B and C list and map existing and proposed public EV charging stations at County facilities.

### **County Operations Implementation Status (Goals 1, 2, and 3)**

Three EV Roadmap goals focus on increasing the number of EVs in the County fleet, increasing the number of charging stations at County facilities, and increasing the number of employees who own and drive EVs. These efforts contribute to a reduction in greenhouse gas emissions from County operations.

#### **Goal 1: Further Reduce the County's Fleet of Gas-Powered Vehicles**

Targeted Outcome: Increase the number of EVs in the County's fleet to 501 vehicles by 2027.

In Fiscal Year 2019-2020, 28 EVs were ordered by County departments, adding to the 50 EVs at the time of EV Roadmap adoption. These 78 County vehicles can use 84 charging stations available for County use at eight County facilities. Additionally, in October 2019, three Board policies, F-22, “Lease of Real Property for County Use”, H-1, “Fleet Management and Internal Service Fund”, and H-2, “Fleet Vehicle and Mobile Equipment Acquisition Policy”, were amended to allow for easier conversion of fleet vehicles during scheduled vehicle replacement and to allow the County to negotiate the opportunity to install charging infrastructure in non-County owned facilities.

*Goal 2: Accelerate Installation of EV Charging Stations at Public Locations in County Facilities and in the Unincorporated County*

Targeted Outcome: Contribute to the regional EV charging network by installing 2,040 Level II charging stations at County facilities and throughout the unincorporated area by 2028.

In Fiscal Year 2019-2020, two charging stations were installed at the Santa Ysabel Nature Center, bringing the total number of public charging stations to 39 at County facilities. These charging stations are in addition to the 84 charging stations discussed previously, which are only available for charging County vehicles. In October 2019, the Board amended Board Policy G-15, “Design Standards for County Facilities” to require all new facilities to include charging infrastructure for public use. An internal County EV Working Group, consisting of Departments of Parks and Recreation, Planning & Development Services, General Services, Public Works – Airports, and the San Diego County Library, regularly convenes to identify potential sites for additional publicly accessible chargers at existing facilities and grant opportunities to fund these installations.

The County pursued three grant opportunities to site additional charging stations at County facilities for public use:

1. San Diego Gas and Electric’s (SDG&E) Parks Pilot Program (AB 1082/1083). Lakeside Community Center is expected to receive two fast charging and two Level II charging stations. (Grant request: up to \$300,000)
2. Clean Mobility Options (CMO) Grant Program. In Summer 2020, the County was awarded a planning grant for the CMO State program to conduct a Community Transportation Needs Assessment that will evaluate community transportation gaps, identify mobility needs, and provide educational information on clean transportation options in the Spring Valley Community Planning area. The CMO program is available to communities in California’s historically underserved communities. The grant agreement was signed in November 2020, with the needs assessment starting in Winter 2020. (Grant request: \$49,515)
3. California Electric Vehicle Infrastructure Program (CALeVIP). In Fall 2020, four County facilities (North County Regional Center, McClellan-Palomar Airport, Julian Library, and Ramona Library) were included in a CALeVIP application for up to 16 fast-charging stations. (Grant request: \$720,000)

*Goal 3: Promote and Incentivize County Employee EV Ownership*

Targeted Outcome: Increase County employee EV ownership and use to reduce employee commute emissions.

In Fiscal Year 2019-2020, the Land Use Environment Group assembled a cross-departmental working group to identify and develop a reporting system that will establish the baseline number of miles that employees drive to and from their work location with the number of days that employees telework. This baseline will help determine how to structure alternative transportation benefits and to promote solutions such as EV ownership.

**Unincorporated Area Implementation Status (Goals 4, 5, and 6)**

Three EV Roadmap goals focus on increasing the availability of charging infrastructure in the unincorporated area for public use by leveraging County land use authority, permitting processes, and the County's ability to coordinate with regional partners. These goals will contribute to a reduction in greenhouse gas emissions.

*Goal 4: Incentivize and/or Require EV Charging Infrastructure in New and Existing Private Multi-Family Residential and/or Non-Residential Development*

Targeted Outcome: Increase charging station installations in new and existing private development.

In Fiscal Year 2019-2020, the County was one of the first jurisdictions in the region recognized by the State as having a streamlined EV charger permitting process consistent with Assembly Bill 1236 (2015). Other jurisdictions recognized in the region include the cities of Escondido, Del Mar, and National City. The County's streamlined permitting processes, established in 2017, encourage EV charging infrastructure development by reducing project costs to homeowners and developers. County staff also began the initial evaluation of options to incorporate EV parking and EV charging infrastructure into new development.

*Goal 5: Fund EV Expert/Consumer Advocate as a Regional Resource*

Targeted Outcome: Increase EV ownership and charging station installations through education, outreach, regional collaboration, and incentives.

In Fiscal Year 2019-2020, County staff collaborated with the San Diego Association of Governments (SANDAG) to evaluate options, including a County-led "EV Consumer Advocate" website, for offering general and technical online support to residents, agencies, and businesses on EV-related topics. The County's "EV Consumer Advocate" website is now in development to provide general and technical support to residents and businesses on topics such as incentive availability, technology, and charger installation procedures. Expected Spring 2021, the site will provide a decision support tool that will assist consumers with choosing the right EV for their needs and budget.

*Goal 6: Collaborate with Regional Partners to Support Public and Private Fleet Electrification*

Targeted Outcome: Increase EV use in regional light-, medium-, and heavy-duty fleets.

In Fiscal Year 2019-2020, County staff continued collaboration with SANDAG, SDG&E, San Diego County Air Pollution Control District, and the City of San Diego on a regional “Accelerate to Zero Emissions” Partnership and developed a framework to expand the partnership to include additional agency support, industry experts, and other interested stakeholders. The partnership’s purpose is to address regional barriers to EV adoption, attract outside investment, and coordinate charging infrastructure development.

**Next Steps**

Action items for each of the EV Roadmap Goals have been established for Fiscal Year 2020-2021 as described in Appendix A and include: fund and install additional charging stations at County facilities (County and public use), update the Green Fleet Action Plan, complete an EV charger site assessment, deploy a County employee commute reporting system, evaluate an EV charger parking incentive program for private development, launch an “EV Consumer Advocate” website to support and inform residents about how to select an EV that meets their budgets and transportation needs, and continue collaboration with regional partners to identify regional infrastructure needs and funding sources.

County staff anticipates the initiation of public outreach and educational programming related to EVs for unincorporated county residents and businesses in Spring 2021. This programming will include the release of an EV Roadmap website where visitors can access implementation status updates and resources to learn more about the County’s efforts related to this program.

Additionally, staff are reviewing Executive Order N-79-20 (EO), signed by Governor Newsom on September 23, 2020. This EO establishes a 100 percent ban on the sale of internal combustion engines for passenger cars and pickup trucks within California by 2035. It requires state agencies, in partnership with the private sector, to accelerate affordable fueling charging options. Staff will determine how this EO aligns with the efforts of the EV Roadmap.

If I can be of further assistance, please contact me at (858) 694-2962 or by email at [Mark.Wardlaw@sdcounty.ca.gov](mailto:Mark.Wardlaw@sdcounty.ca.gov) or Rami Talleh, Deputy Director, Planning & Development Services at (858) 495-5475 or by email at [Rami.Talleh@sdcounty.ca.gov](mailto:Rami.Talleh@sdcounty.ca.gov).

Respectfully,

MARK WARDLAW, Director  
Planning & Development Services

cc: Sarah Aghassi, Deputy Chief Administrative Officer, Land Use and Environment Group  
Andrew Potter, Clerk of the Board of Supervisors

Rob Reider, Air Pollution Control Officer, San Diego County Air Pollution Control District

Marko Medved, Director, Department of General Services

Susan Brazeau, Director, Department of Human Resources

Migell Acosta, Director, San Diego County Library

Brian Albright, Director, Department of Parks and Recreation

Jeff Moneda, Director, Department of Public Works

Appendix A – Summary of Implementation Progress

Appendix B – EV Charging Stations at Public Locations in County Facilities Table

Appendix C – EV Charging Stations at Public Locations in County Facilities Map

Appendix A – Summary of Implementation Progress

<b>Goal 1: Further Reduce the County’s Fleet of Gas-Powered Vehicles</b>		
Targeted Outcome: Increase the number of EVs in the County’s fleet to 501 vehicles by 2027		
<b>EV Roadmap Recommendation</b>	<b>Progress in Fiscal Year 2019-2020</b>	<b>Expected Progress in Fiscal Year 2020-2021</b>
Amend Board policies F-22, “Lease of Real Property for County Use”, H-1, “Fleet Management and Internal Service Fund”, and H-2, “Fleet Vehicle and Mobile Equipment Acquisition Policy”, in the October 2019 sunset review	Completed in October 2019	
Convert 250 County fleet gas-powered vehicles to EVs by 2025 and install necessary EV charging infrastructure	<ul style="list-style-type: none"> <li>• 28 gas-powered vehicles to be replaced with EVs</li> <li>• 78 total EVs in County fleet</li> <li>• 84 existing EV charging stations for fleet use</li> </ul>	Provided funding to design and install an additional 35 fleet charging stations at the County Operations Center
Convert an additional 251 County fleet gas-powered vehicles to EVs for a total of 501 by 2027 and install necessary EV charging infrastructure		
Keep pace with technological trends, track the costs and benefits of fleet conversion, and update the Green Fleet Action Plan no later than 2025 to set goals for medium- and heavy-duty fleet vehicle conversions. Consider additional categories of light-duty vehicles for conversion, and purchase EVs as feasible.		Update Green Fleet Action Plan to align with EO N-79-20

<b>Goal 2: Accelerate Installation of EV Charging Stations at Public Locations in County Facilities and in the Unincorporated County</b>		
Targeted Outcome: Contribute to the regional EV charging network by installing 2,040 Level II charging stations at County facilities and throughout the unincorporated area by 2028		
<b>EV Roadmap Recommendation</b>	<b>Progress in Fiscal Year 2019-2020</b>	<b>Expected Progress in Fiscal Year 2020-2021</b>
Amend Board Policy G-15, “Design Standards for County Facilities” to require all new County facilities to include charging infrastructure for public and employee use	Completed in October 2019	
Fund the installation of 63 publicly accessible Level II chargers at seven County facilities for public and employee use by 2021	<ul style="list-style-type: none"> <li>• Two Level II charging stations installed at the Santa Ysabel Nature County Center</li> <li>• 39 total public charging stations at County facilities</li> </ul>	<ul style="list-style-type: none"> <li>• Provided funding to design and install an additional 63 public charging stations at seven recently constructed or planned County facilities</li> <li>• Pursued three grant opportunities: SDG&amp;E Parks Pilot Program for two Level II chargers; Clean Mobility Options Grant Program for planning assistance; and CALeVIP to site an additional 16 fast charger public stations at County facilities</li> </ul>
Complete an EV charger site assessment study and develop the EV Charger Installation Program by FY 22/23. Return to the Board for funding and install 2,040 Level II chargers by FY 27/28	<ul style="list-style-type: none"> <li>• Internal County EV Working Group convenes regularly to identify potential sites for additional publicly accessible chargers at existing facilities and grant opportunities to fund these installations*</li> <li>• Developed communications and outreach plan and began identifying communities with priority populations to determine priority locations for public charging</li> </ul>	Prepare an EV charger site assessment

	infrastructure development in private development	
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\*Working Group consists of Department of Parks and Recreation, Planning & Development Services, General Services, Public Works (Airports), and the San Diego County Library.

<b>Goal 3: Promote and Incentivize County Employee EV Ownership</b>		
Targeted Outcome: Increase County employee EV ownership and use to reduce employee commute emissions		
<b>EV Roadmap Recommendation</b>	<b>Progress in Fiscal Year 2019-2020</b>	<b>Expected Progress in Fiscal Year 2020-2021</b>
Promote and incentivize County employee EV use by developing partnerships with banks, credit unions, dealerships to extend lending and pricing benefits	<ul style="list-style-type: none"> <li>• Land Use and Environment Group assembled a cross-departmental working group to develop a reporting system to establish the baseline number of miles that employees drive to and from their work location</li> <li>• This baseline will help determine how alternative transportation options, such as EVs, help reduce greenhouse gas emissions from employee commute trips</li> </ul>	<ul style="list-style-type: none"> <li>• Reporting system will be deployed</li> <li>• Efforts to support alternative travel options, such as shuttles and vanpools, and promote and educate employees on the advantages of buying EVs will be expanded</li> <li>• County will explore options to develop employee incentives such as lending, pricing, and parking benefits</li> </ul>



<b>Goal 4: Incentivize and/or Require EV Charging Infrastructure in New and Existing Private Multi-Family Residential and/or Non-Residential Development</b>		
Targeted Outcome: Increase charging station installations in new and existing private development		
<b>EV Roadmap Recommendation</b>	<b>Progress in Fiscal Year 2019-2020</b>	<b>Expected Progress in Fiscal Year 2020-2021</b>
Prepare a cost/benefit analysis of options to incentivize and/or require EV charger installations in new and/or retrofits of multi-family and non-residential development in the unincorporated area	<ul style="list-style-type: none"> <li>• The County was one of the first jurisdictions in the region recognized by the State as having a streamlined EV charger permitting process consistent with Assembly Bill 1236 (2015)*</li> <li>• Evaluation of Parking Incentive Program currently underway as part of 2018 Climate Action Plan Transportation Demand Management (Measure T-2.2) / Shared Parking (Measure T-2.4) work program</li> </ul>	<ul style="list-style-type: none"> <li>• Evaluation of an EV charging parking incentive program will continue</li> <li>• This work will inform the development of the cost/benefit analysis of options to incentivize and/or require EV charger installations in private development</li> </ul>

\*Other jurisdictions recognized in the region include the cities of Escondido, Del Mar, and National City.

<b>Goal 5: Fund EV Expert/Consumer Advocate as a Regional Resource</b>		
Targeted Outcome: Increase EV ownership and charging station installations through education, outreach, regional collaboration, and incentives		
<b>EV Roadmap Recommendation</b>	<b>Progress in Fiscal Year 2019-2020</b>	<b>Expected Progress in Fiscal Year 2020-2021</b>
Identify regional partners and cost sharing opportunities to fund a regional “EV Expert/Consumer Advocate” that would provide no-cost consultations for residents, agencies, and businesses to learn more about available incentives, technologies, and charger installation procedures on an ongoing basis	<ul style="list-style-type: none"> <li>• Collaborated with SANDAG to evaluate options for offering general and technical online support to residents, agencies, and businesses on EV related topics</li> <li>• County-led “EV Consumer Advocate” website under development to provide general and technical support to residents and businesses on topics such as incentive availability, technology, and charger installation procedures</li> </ul>	<ul style="list-style-type: none"> <li>• A regional “EV Expert” service focusing on providing technical support and resources to CALeVIP incentive program recipients will be created by regional partners beginning in Fall 2020</li> <li>• To supplement this resource, staff is currently working with a website developer to build and launch the County’s “EV Consumer Advocate” website. The site will provide a decision support tool that will assist consumers with choosing the right EV for their needs and budget. It will be available in Spring 2021.</li> </ul>

<b>Goal 6: Collaborate with Regional Partners to Support Public and Private Fleet Electrification</b>		
Targeted Outcome: Increase EV use in regional light-, medium-, and heavy-duty fleets		
<b>EV Roadmap Recommendation</b>	<b>Progress in Fiscal Year 2019-2020</b>	<b>Expected Progress in Fiscal Year 2020-2021</b>
Develop public and private regional partnerships to provide fleet electrification technical support to convert large regional fleets such as delivery services, rideshare, school districts, and transportation network companies to EV on an ongoing basis	<ul style="list-style-type: none"> <li>County staff continued collaboration on a regional “Accelerate to Zero Emissions” Partnership* to address regional barriers to EV adoption, attract outside investment, and coordinate charging infrastructure development</li> </ul>	<ul style="list-style-type: none"> <li>“Accelerate to Zero Emissions” Partnership will complete a Needs Assessment to expand upon and update previous regional EV planning efforts, which will result in the development of a San Diego Regional EV Strategy to help the region meet State light-duty EV goals</li> <li>The County will collaborate with regional partners on an application to the California Energy Commission’s Medium- and Heavy-Duty Zero Emission Vehicle Infrastructure Blueprint Planning Grant to develop a regional strategy for medium- and heavy-duty fleet conversions to EV</li> </ul>

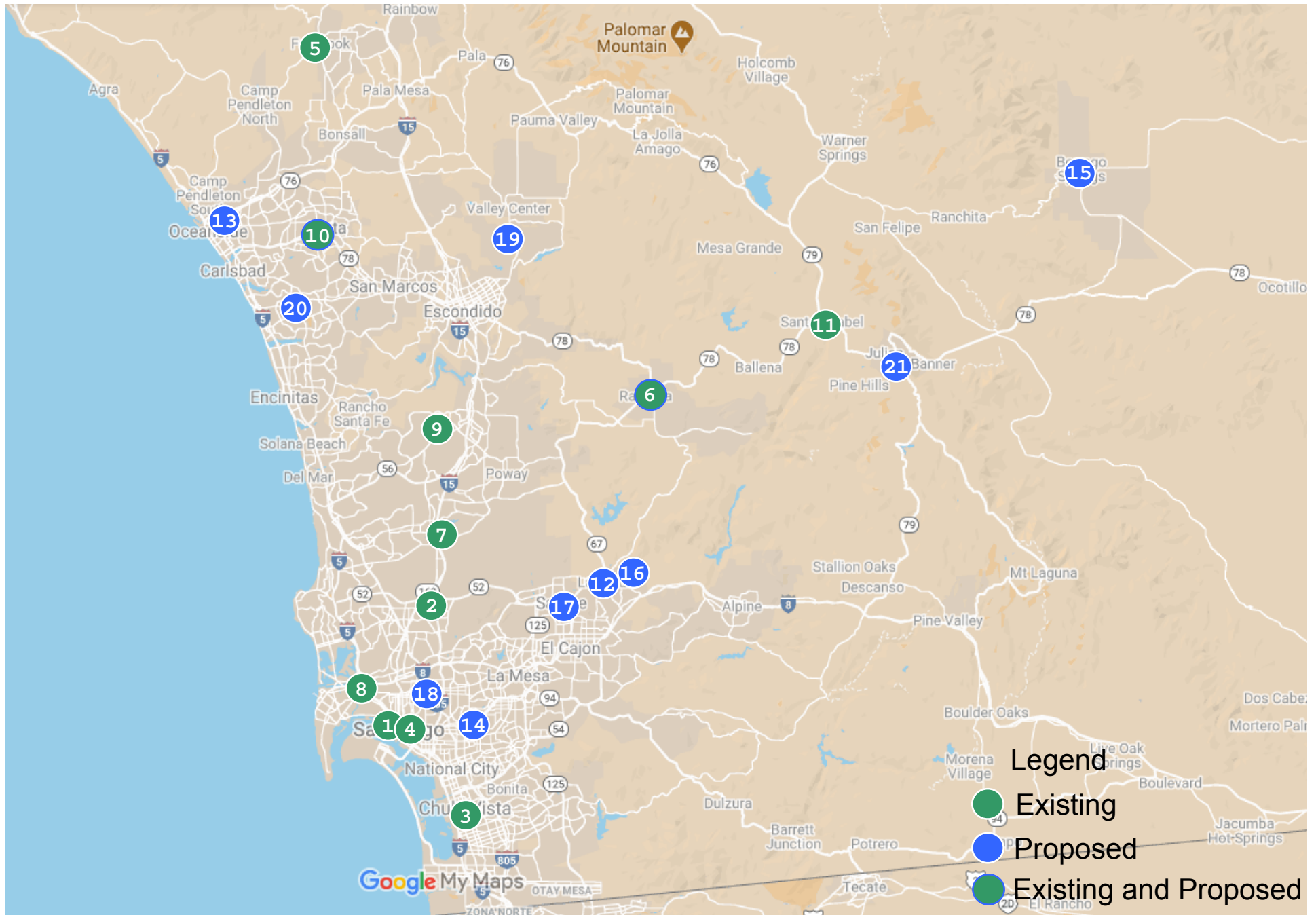
\*“Accelerate to Zero Emissions” Partnership consists of San Diego County, SANDAG, SDG&E, San Diego County Air Pollution Control District, and City of San Diego.

Appendix B – EV Charging Stations at Public Locations in County Facilities Table

<b>EV Charging Stations at Public Locations in County Facilities</b>						
<b>EV Charging Site</b>		<b>Site Address</b>	<b># of EV Charging Ports</b>			
			<b>Installed</b>		<b>Proposed FY 20/21</b>	
			<b>Level II</b>	<b>DCFC</b>	<b>Level II</b>	<b>DCFC</b>
1	County Administrative Center	1600 Pacific Hwy, San Diego, CA 92101	4	2	0	0
2	County Operations Center	5515 Overland Avenue, San Diego, CA 92123	10	0	0	0
3	Office of the Assessor / Recorder / County Clerk – Chula Vista	590 Third Avenue, Chula Vista, CA 91910	4	0	0	0
4	Cedar Kettner Parking Structure	735 West Cedar Street, San Diego, CA 92101	4	0	0	0
5	Fallbrook Library	124 South Mission Road, Fallbrook, CA 92028	2	0	0	0
6	Ramona Library	1275 Main Street, Ramona, CA 92065	2	0	0	4
7	San Diego County Air Pollution Control District	10124 Old Grove Road, San Diego, CA 92131	1	0	0	0
8	Health Service Complex	3851 Rosecrans Street, San Diego, CA 92110	2	0	0	0
9	4S Ranch Community Center	16118 4S Ranch Pkwy, San Diego, CA 92127	2	0	0	0
10	North County Regional Center	325 South Melrose Drive, Vista, CA 92083	4	0	0	4
11	Santa Ysabel Nature Center	22135 Highway 79, Santa Ysabel, CA 92070	2	0	0	0
12	Lakeside Community Center	9841 Vine Street, Lakeside, CA 92040	0	0	2	2
13	North Coastal Live Well Health Center	1701 Mission Avenue, Oceanside, CA 92058	0	0	5	0
14	Southeastern Live Well Center	415 Euclid Ave, San Diego, CA 92114	0	0	24	0

<b>EV Charging Stations at Public Locations in County Facilities</b>						
<b>EV Charging Site</b>		<b>Site Address</b>	<b># of EV Charging Ports</b>			
			<b>Installed</b>		<b>Proposed FY 20/21</b>	
			<b>Level II</b>	<b>DCFC</b>	<b>Level II</b>	<b>DCFC</b>
15	Borrego Springs Library	2580 Country Club Road, Borrego Springs, CA 92004	0	0	2	0
16	Lakeside Library	9839 Vine Street, Lakeside, CA 92040	0	0	4	0
17	Office of the Assessor / Recorder / County Clerk – East County	10144 Mission Gorge Road, Santee, CA 92071	0	0	9	0
18	Ohio Street New Probation Office	3977 Ohio Street, San Diego, CA 92104	0	0	4	0
19	Juvenile Justice Campus	2801 Meadow Lark Drive, San Diego, CA 92123	0	0	15	0
20	McClellan-Palomar Airport	2192 Palomar Airport Road, Carlsbad, CA 92008	0	0	0	4
21	Julian Library	1850 Highway 78, Julian, CA 92036	0	0	0	4
<b>Total Ports by Charger Type, Installed and Proposed</b>			<b>37</b>	<b>2</b>	<b>65</b>	<b>18</b>
<b>Total Ports, Installed and Proposed</b>			<b>39</b>		<b>83</b>	
<b>Total Ports through FY 20/21</b>			<b>122</b>			

Appendix C - EV Charging Stations at Public Locations in County Facilities Map



Numbers correspond to the site location identified in Appendix B. See table for charger port and quantity per location.