San Diego Regional Electric Vehicle Infrastructure Planning and Charger Incentive Program

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San Diego Association of Governments (SANDAG)
www.sandag.org/EVChargingProgram

Local Government Panel | Roadmap 12
Portland, OR | June 19, 2019
The Challenge:

Regional EV adoption is outpacing infrastructure investment. The San Diego region has a 2025 projected gap of thousands of public chargers.
Growth of the San Diego County EV Market

From Q4 2017—Q3 2018, EVs were 6.1% of new light-duty vehicle sales

<table>
<thead>
<tr>
<th>EV registrations</th>
<th>2010</th>
<th>16</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>2011</td>
<td>1,185</td>
</tr>
<tr>
<td></td>
<td>2012</td>
<td>1,421</td>
</tr>
<tr>
<td></td>
<td>2013</td>
<td>3,051</td>
</tr>
<tr>
<td></td>
<td>2014</td>
<td>4,382</td>
</tr>
<tr>
<td></td>
<td>2015</td>
<td>4,376</td>
</tr>
<tr>
<td></td>
<td>2016</td>
<td>5,563</td>
</tr>
<tr>
<td></td>
<td>2017</td>
<td>6,914</td>
</tr>
<tr>
<td></td>
<td>2018 (Q1–Q3)</td>
<td>7,928</td>
</tr>
<tr>
<td>Total</td>
<td>34,836</td>
<td></td>
</tr>
</tbody>
</table>

2025 Target: 110,000 zero-emission vehicles (ZEVs)

2030 Target: 410,000 ZEVs

Source: Center for Sustainable Energy - Clean Vehicle Rebate Project, includes content supplied by R.L. Polk & Co, © 2018
Growth in Number of Level 2 Chargers and Estimated Need in 2025 for San Diego County

Level 2 EV Charge Ports in San Diego County

Source: US Department of Energy, AFDC (May 2019) and CEC EV Infrastructure Projection Tool (March 2018)
SANDAG ZEV Efforts Timeline

Regional AFs, Vehicles, and Infrastructure Report

2009

The EV Project Launches - SANDAG supports locally

2010

PEV Readiness Plan and Working Group

2011

• Permit streamlining tools
• EV Expert consults
• EVCS mapping tool
• Outreach

2012

2013

2015

2016

2017

2018

2019

2020+

SANDAG's Regional Transportation Plan and Sustainable Communities Strategy (RTP/SCS)

San Diego FORWARD

San Diego FORWARD

refuel

Regional AF Plan and Coordinating Council

EV Charger Incentive Program Development

Opens mid-2020

2020+

SANDAG’s Regional Transportation Plan and Sustainable Communities Strategy (RTP/SCS)
Plug-in San Diego Mapping Tool

- EV Charging Stations
- EV Registrations
- Regional Travel Model
- Gaps in Charging Network
- Benefits to Disadvantaged Communities
- Other overlays

San Diego Region:
- 4,200 square miles
- 3.1 million people
- 1.3 million jobs
- 1.2 million homes

evcs.sandag.org
San Diego Regional Charger Incentive Program: Estimated Partner Budgets and Scope

- Implement 2015 RTP/SCS
- Level 2 Chargers
- $30M budget est. $1 million/yr until 2050

- Implement County Climate Action Plan
- Level 2 Chargers
- Budget est. $500,000/yr up until 2030

Potential State Partner

- Implement Executive Order B-48-18 targets for EV chargers
- Level 2 and DC Fast Chargers
- Budget est. ranges from $10-23 million total allocation
Thank You!

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