Background

- Caltrans Sustainable Communities Grant
  July 2017 – August 2020
  Partners: HNTB, EPIC

- Purpose: provide easily accessible, best-available data to assist local jurisdictions in climate action planning and reporting

- Coordination and input received on draft versions of site and through beta testing
Data Portal Connections to ReCAP

- Utilizes methods established in ReCAP
- Incorporates data included in ReCAP Snapshots
  - Greenhouse gas inventory
  - Climate activity data
- Other data and features
  - VMT data and mapping
  - Ability to graph and download data
Next Steps

• Webinars / Trainings
  Deeper dive and live demo of Data Portal
  July 20 (1-2 PM) & July 22 (10-11 AM)
  Same content; recording will be posted online

• Anticipated launch – August 2020

• Annually update site with newly available data

Contact: Katie Hentrich, (619) 595-5609
katie.hentrich@sandag.org
ACCELERATE TO ZERO EMISSIONS
A Collaboration to Combat Air Pollution through Transportation Electrification
SANDAG Energy Working Group, June 25, 2020

WHAT IS AN EV?
An EV (electric vehicle) is a zero-emission vehicle that has no tailpipe emissions and promotes a clean transportation future (e.g., battery electric vehicle, hydrogen fuel cell electric vehicle)
OUR CHALLENGE

Transportation is a leading cause of GHG emissions and air pollution in our County.

Without accelerating EV adoption and infrastructure investments, our fight against climate change is stalled.

OUR VISION

Through collaboration to combat climate change, transform the San Diego region into the national leader in EV adoption.
GLOBAL WARMING SOLUTIONS ACT (2006)
Reduce California GHG emissions to 1990 levels by 2020

SENATE BILL 32
Reduce California GHG emissions to 40% below 1990 levels by 2030

EXECUTIVE ORDER B-48-18
5 million EVs in CA by 2030 and 250,000 EV charging stations by 2025

EXECUTIVE ORDER N-19-19
Requires state government to redouble GHG reduction efforts, including accelerating progress on 5 million EVs by 2030 goal

STATE MANDATES

ACCELERATE THE MARKET

MARKET FORCES

45,000 EVs in the San Diego region as of January 2020

61% Increase in EV sales in California from 2017 to 2019

$350B Global Private Investment in transportation electrification

48 EV models available in California and more arriving each year
VEHICLE GOALS

San Diego County
Based on our fair share of state goals mandated by:
- Executive Order B-16-12 (1.5M ZEVs by 2025)
- Executive Order B-48-18 (5M ZEVs by 2030)

- Total EV registrations
- EV registration goals

Based on state mandates

Sources: CSE: Clean Vehicle Rebate Project, Includes content supplied by R.L. Polk & Co, © 2018
Regional targets based on hypothetical “fair share” of state zero emission vehicle targets.

CHARGER GOALS

San Diego County
Based on our fair share of state goals

- Total public EV chargers (L2 and DCFC)
- EV charging station goals

Based on state mandates

Energy Working Group Item 6 | June 25, 2020
**CALL TO ACTION**

**BUILD**
Prepare region to support coming EV acceleration

**ACCELERATE**
As EV prices come down and range increases, support EV acceleration

**GROW**
Continue to grow the EV market through public and private collaborations

**LEARN**

**TRAILBLAZE**

**THE SOLUTION**

**1** COLLABORATE

**2** CREATE

**3** CONNECT

---

Energy Working Group Item 6 | June 25, 2020
THE SOLUTION

1. COLLABORATE
   - Jurisdictions & regional agencies
   - Utility
   - Other key stakeholders

2. CREATE
   - EV Needs Assessment and EV Strategy
   - Investment Opportunities
   - Programs and policies that support the regional EV Strategy
THE SOLUTION

- Outside investment
- Government and industry stakeholder alignment
- Local, state, and national engagement

CONNECT

ACCELERATE TO ZERO EMISSIONS

NEXT STEPS

In 2020
- Form Steering Committee, identify advisors, and champions
- Conduct regional Needs Assessment
- Share progress with state and federal agencies, industry, and the community

In 2021
- Develop Regional EV Strategy
- Bring more outside investment to the region
- Serve as national model for other
ACCELERATE TO ZERO EMISSIONS

FINAL THOUGHTS
SANDAG
Susan Freedman
SDG&E
Brandi Turner
County of San Diego
Meghan Kelly
City of San Diego
Colin Santulli
County of San Diego Air Pollution Control District
Kathy Keohan

ACCELERATE TO ZERO EMISSIONS
A Collaboration to Combat Air Pollution through Transportation Electrification
Regional Charger Incentive Program: CALeVIP San Diego County Incentive Project

Regional Energy Working Group Meeting
June 25, 2020
Jeff Hoyos, SANDAG

Regional Electric Vehicle Charging Program: CALeVIP

- May 2019: SANDAG adopts resolution to pursue CALeVIP partnership
- August 2019: CEC hosts CALeVIP Program Design Workshop for San Diego region
- March 2020: SANDAG formalizes partnerships with APCD and CSE
- July/August 2020: CEC to host San Diego County Incentive Project Final Requirements Webinar
- October/November 2020: CEC to host San Diego County Incentive Project Pre-launch Webinar
- Winter 2020: CALeVIP expected to launch in San Diego County
**CALeVIP Sonoma Coast Incentive Project Overview**

- **First-come, first-served** application process
- **Must be** shared-use
- **Base L2 rebate**: $5,000 per port  
  *Adders for MUD, DAC, LIC*
- **Base DCFC rebate**: $50k-$70k or 75% of project cost per charger, whichever is less*  
  *Adders for DAC, LIC*
- **3 Year Charging Infrastructure Estimates for the San Diego region**  
  - L2: 1100 charging ports  
  - DCFC: 250 chargers

*Estimated rebate levels based on CALeVIP Sonoma Coast presentation. Final rebate levels will be established by CEC soon.*

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<thead>
<tr>
<th>Charger</th>
<th>Power</th>
<th>Range Enabled</th>
<th>Location</th>
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<tbody>
<tr>
<td>Level 2 (L2)</td>
<td>7.2 kW</td>
<td>20 miles/hr</td>
<td>Public, Workplace, MUD</td>
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<tr>
<td>Direct Current Fast Charger (DCFC)</td>
<td>50-350 kW</td>
<td>90+ miles/30 minutes</td>
<td>Public, must be accessible 24/7</td>
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**Additional SANDAG Resources**

- **EV Expert**
- **Workforce development**
- **Permit streamlining assistance**
Questions?

Jeff Hoyos
jeff.hoyos@sandag.org
Susan Freedman
susan.freedman@sandag.org
2020 Light Duty Public Program

DRIVING ELECTRIC
HAS NEVER BEEN EASIER.

IT’S ON.

Working Draft
Subject to change until filed with CPUC

Clean Transportation
Lofty State Vehicle Targets

Forecasted trends in electric vehicle sales and infrastructure needed to reach the 2030 Governor’s goal

2017
Learn
Begin developing best practices, kick off planning

2018
2019

2020
Build
Prepare the region to support coming EV acceleration

2021
2022

2024
Accelerate
As EV prices come down and range increases, support EV acceleration

2025
2026
2027

2028
Grow
Rapid EV growth will slow due to limitations in EV infrastructure

2029
2030

2031
Beyond
Prepare for new goals, reevaluate regional needs

Working Draft
Subject to change until filed with CPUC
Clean Transportation
Accelerate Adoption

VEHICLE GOALS
Based on our fair share of state goals mandated by
Executive Order B-16-12 (1.5M ZEVs by 2025)
Executive Order B-48-18 (5M ZEVs by 2030)

- Total EV registrations
- EV registration goals
  based on state mandates

Working Draft
Subject to change until filed with CPUC

Basis for application
SDG&E does not yet have a large public charging program. This application would
address this gap while the CPUC Transportation Electrification Framework is litigated.

- Offering continuous programs to provide consistent support to the clean transportation market
- Supporting local governments' climate action plans and regional GHG reduction efforts
- Supporting economic development and growth of clean economy jobs
- Provides the necessary market support to meet California's aggressive GHG reduction mandates

Working Draft
Subject to change until filed with CPUC

DRIVING ELECTRIC HAS NEVER BEEN EASIER
## Clean Transportation

### Program Gap Analysis

2020 Application addresses gap in light duty programs.

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## Clean Transportation

### Market Analysis

**PUBLIC LEVEL 2**
77% of EV drivers concerned with range
1,912 L2 stations available today (8% of 2025 goal set by EO)

**PUBLIC DCFC**
30% of potential EV buyers said more DCFCs needed to purchase
Currently, one DCFC per 191 vehicles

---

**DRIVING ELECTRIC HAS NEVER BEEN EASIER**
Public Light-Duty Program

- 4-year program addressing need through 2026.
- Addresses 25% of the State’s policy need for public charging market segment.
- Program size/scope will additionally be driven by region work.
- Install, operate, and maintain "make-ready"; customer rebates to offset a portion of DCFC costs.
- Utility-side make ready tariff.

Public Light-Duty Program

~3,000
L2 Chargers in public sites and workplaces

~350
DCFC to support fast charging

Utility-Side EV Infrastructure Tariff Proposal

SDG&E proposes a new infrastructure tariff to support and accelerate deployment of EV charging stations by the private market.

Utility will design, construct, own, and maintain the utility-side make-ready for non-residential TE sites.
Final Q&A Discussion
Thank you for your time.

Working Draft
Subject to change until filed with CPUC