Regional Energy Working Group

Thursday, September 24, 2020
11:30 a.m. to 1 p.m.
**Teleconference Meeting**

MEETING ANNOUNCEMENT AMIDST COVID-19 PANDEMIC:
The Regional Energy Working Group meeting scheduled for Thursday, September 24, 2020, will be conducted virtually in accordance with Governor Newsom’s State of Emergency declaration regarding the COVID-19 outbreak, Executive Order N-29-20, and the Guidance for Gatherings issued by the California Department of Public Health. Working Group Members will primarily participate in the meeting virtually, while practicing social distancing, from individual remote locations. There are a few options for public participation:

- At the time of the meeting, listen to the audio stream through sandag.org
- Observe the meeting via Zoom: zoom.us/j/99356520260
- Submit comments via email to clerk@sandag.org
- To participate via Telephone, dial a number based on your current location
  - US: +1 669 900 6833 or +1 929 205 6099 or +1 253 215 8782 or +1 301 715 8592 or
    +1 312 626 6799 or +1 346 248 7799. Webinar ID: 993 5652 0260.
  - International numbers available: zoom.us/u/aeb3uUxMcs

SANDAG is relying on commercial technology to broadcast the meeting via Zoom. With the recent increase of virtual meetings, platforms such as Microsoft Teams, WebEx, GoToMeeting, and Zoom are working to scale their systems to meet the new demand. If we experience technical difficulty or you are unexpectedly disconnected from the broadcast, please close and re-open your browser and click the link to re-join the meeting. SANDAG staff will take all possible measures to ensure a publicly accessible experience. Please note that the meeting will continue to be broadcast audio-only via the “Listen to the meeting” link on sandag.org.

Public Comments: Persons who wish to address the members on an item to be considered at this meeting, or on non-agendized issues, may email comments to the Clerk at clerk@sandag.org (please use “September 24 EWG Meeting” as your subject line and identify the item number[s] to which your comments pertain). Comments received by 4 p.m. on Wednesday, September 23, will be provided to members prior to the meeting.

If you desire to provide a live verbal comment during the meeting, please join the Zoom meeting either by computer or phone. At the time for public comments, members of the public will be advised to “Raise Hand” if they wish to provide comments. The “Raise Hand” feature can be found on the Zoom toolbar for those who are joining via computer or by entering *9 for those who joining via telephone only. The Chair will call on members of the public by name for those joining via a computer and by the last three digits of your telephone number for those joining via telephone. All comments received prior to the close of the meeting will be made part of the meeting record.
Welcome to SANDAG. Members of the public may speak to the Working Group on any item at the time the Working Group is considering the item. Public speakers are limited to three minutes or less per person. The Working Group may only take action on any item appearing on the agenda.

In order to keep the public informed in an efficient manner and facilitate public participation, SANDAG also provides access to all agenda and meeting materials online at sandag.org/meetings. Additionally, interested persons can sign up for email notifications at sandag.org/subscribe.

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SANDAG agenda materials can be made available in alternative languages. To make a request, call (619) 699-1900 at least 72 hours in advance of the meeting.

Los materiales de la agenda de SANDAG están disponibles en otros idiomas. Para hacer una solicitud, llame al (619) 699-1900 al menos 72 horas antes de la reunión.

如有需要，我们可以把SANDAG议程材料翻译成其他语言。

请在会议前至少72小时打电话(619) 699-1900提出请求。

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To access Closed Captioning:

- Open your browser and go to streamtext.net/player?event=SANDAG-EnergyWG

Mission Statement

The 18 cities and county government are SANDAG serving as the forum for regional decision-making. SANDAG builds consensus; makes strategic plans; obtains and allocates resources; plans, engineers, and builds public transit; and provides information on a broad range of topics pertinent to the region's quality of life.

San Diego Association of Governments · 401 B Street, Suite 800, San Diego, CA 92101-4231
(619) 699-1900 · Fax (619) 699-1905 · sandag.org
<table>
<thead>
<tr>
<th>Item No.</th>
<th>Action</th>
<th>Item No.</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Welcome and Introductions</td>
<td>2.</td>
<td>Approval of Meeting Minutes</td>
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<td>3.</td>
<td>Public Comments/Communications/Member Comments</td>
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<td>Reports</td>
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<td>4.</td>
<td>Regional Electric Vehicle Charging Program: CALeVIP San Diego County Incentive Project Update</td>
<td>Information</td>
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<td></td>
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<td>+5.</td>
<td>Jeff Hoyos, SANDAG</td>
</tr>
</tbody>
</table>

*Keith Malone, California Fuel Cell Partnership*

California Fuel Cell Partnership has outlined its vision for a self-sustaining fuel cell electric vehicle market by 2030 in California and beyond in *The California Fuel Cell Revolution*. An overview of hydrogen and its role in helping the state achieve both greenhouse gas emissions reductions goals and zero-emission vehicles goals will be provided. More information is available at cafcp.org.

7. **North County Transit District Innovative Clean Transit ZEB Rollout Plan Overview**

*Damon Blythe, North County Transit District*

North County Transit District recently approved their Zero-Emission Bus Rollout Plan to transition its bus fleet to 100 percent zero-emission by 2042, in compliance with the California Air Resources Board's Innovative Clean Transportation regulation. An overview of the Rollout Plan and next steps will be provided.

8. **Upcoming Meetings**

The next EWG meeting is scheduled for Thursday, October 22, 2020, at 11:30 a.m.

9. **Adjournment**

+ next to an item indicates an attachment
June 25, 2020, Meeting Minutes

Chair Cori Schumacher (Councilmember, City of Carlsbad) called the meeting of the Regional Energy Working Group (EWG) to order at 11:36 a.m.

1. Welcome and Introductions
Chair Schumacher provided an update to the EWG members and public on the new virtual process for both member and public comments. The Clerk of the Board confirmed quorum.

2. Approval of Meeting Minutes
Action: Upon a motion by Jason Anderson (Cleantech San Diego) and a second by Councilmember Amanda Rigby (City of Vista), the EWG approved the minutes from its July 25, 2019, meeting.

Yes: Councilmember Mike Diaz (City of Chula Vista), Councilmember Amanda Rigby (City of Vista), Councilmember Jennifer Mendoza (City of La Mesa), Susan Freed (County of San Diego), Julia Tuer (Metropolitan Transit System), Brendan Reed (San Diego County Regional Airport Authority), Renee Yarmy (Port of San Diego), Michelle Perez (University of California, San Diego), Fernando Valero (San Diego Gas & Electric), Rahgav Murali (Center for Sustainable Energy), Scott Anders (Energy Policy Initiatives Center, University of San Diego School of Law), Krista Davidson (Sierra Club), Mike Evans (San Diego Regional Chamber of Commerce), Jason Anderson (Cleantech San Diego). No: None. Abstain: None.
Absent: City of San Diego, Transportation Fuels, Social Justice, Economic Development.

3. Public Comments/Communications/Member Comments
No public comment.

Consent

4. San Diego Regional Electric Vehicle Rebate Statistics (Information)
SANDAG has committed to providing the EWG with monthly updates on regional and statewide statistics. The Clean Vehicle Rebate Program (CVRP) and the San Diego County New Car Dealers Association are two data resources.

The CVRP provides updated statistics at regular processing intervals at: cleanvehiclerebate.org. Regional rebate statistics were not available. Statewide rebate statistics were provided. The San Diego County New Car Dealers Association publishes the San Diego Auto Outlook quarterly and released data available through May 2020, available at ncd.org/auto-outlook.

Action: Information only.

Reports

5. Climate Action Data Portal
Associate Regional Planner Katie Hentrich provided an overview and demonstration of the climate action data portal developed to support ongoing monitoring and reporting of local climate action planning efforts with funding SANDAG received from Caltrans Senate Bill 1 (Beall, 2017).

Action: Information only.
6. Accelerate to Zero Emissions: A Regional Collaboration to Combat Air Pollution Through Transportation Electrification

Senior Regional Planner Susan Freedman; Brandi Turner (San Diego Gas & Electric); Meghan Kelly (County of San Diego); Colin Santulli (City of San Diego); and Kathy Keehan (San Diego County Air Pollution Control District) presented an overview of a regional collaboration forming to accelerate the transition to electric vehicles (e.g., battery electric vehicles, hydrogen fuel cell electric vehicles).

Action: Information only.

7. Regional Electric Vehicle Charging Program: CALeVIP San Diego County Incentive Project Update

Associate Regional Planner Jeff Hoyos provided an update on the upcoming electric vehicle charger rebate program, including project partnerships, budget, and anticipated launch.

Action: Information only.


Brittany Syz and Brandi Turner (San Diego Gas & Electric [SDG&E]), shared SDG&E’s preliminary ideas on their plan to design a new program to expand infrastructure for light duty electric vehicles with the EWG.

Action: Information only.

9. Upcoming Meetings (Information)

The next EWG meeting is scheduled for Thursday, July 23, 2020, at 11:30 a.m.

10. Adjournment

Chair Schumacher adjourned the meeting at 1:23 p.m.
Confirmed Attendance at SANDAG Regional Energy Working Group Meeting

June 25, 2020

<table>
<thead>
<tr>
<th>Representation</th>
<th>Jurisdiction</th>
<th>Name</th>
<th>Member/Alternate</th>
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<td>Mo Lahsaie</td>
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<td>Susan Freed</td>
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<td>Julia Tuer</td>
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<td>Brendan Reed</td>
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<td>Michelle Perez</td>
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<td>Vanessa Mapula-Garcia</td>
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<td>Rahgav Murali</td>
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<td>Kinshuk Chatterjee</td>
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<td>Energy Policy Initiatives Center, University of San Diego School of Law</td>
<td>Scott Anders, Vice Chair</td>
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<td>Environment/Social Justice</td>
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<tr>
<td>Business</td>
<td>San Diego Regional Chamber of Commerce</td>
<td>Mike Evans</td>
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<td>Jamie Garrett</td>
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<td>North County Economic Development Council</td>
<td>Paul O’Neal</td>
<td>Member</td>
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<td>South County Economic Development Council</td>
<td>John Moot</td>
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<td></td>
<td>Cleantech San Diego</td>
<td>Jason Anderson</td>
<td>Member</td>
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<td>Alyssa Gutner-Davis</td>
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</tbody>
</table>

Other Attendees

- Alan Bach -- CPUC
- Joe Britton -- San Diego Gas & Electric
- Louise Bruning -- ICF
- Anastasia Captioner – Member of the Public
- Noah Garcia -- ICF
- Joe Garuba – Helix Water District
- Mike Grim – City of Carlsbad
- David Grubb – Member of the Public
- Noah Harris – Climate Action Campaign
- Chris Helmer -- City of Imperial Beach
- Chris Jacobs – City of Santee
- Kathleen Keehan – County of San Diego
- Meghan Kelly – County of San Diego
- Howard Lee – City of Coronado
- Edward Lopez – Utility Consumers Action Network
- Keith Malone – California Fuel Cell Partnership
- Lisa McGhee – Member of the Public
- David Park – California Fuel Cell Partnership
- Corey Permann – San Diego Gas & Electric
- Hannon Rasool -- San Diego Gas & Electric
- Colin Santulli – City of San Diego
- Tim Sasseen – Ballard Power
- Deanna Spehn – California State Senate
- Brittany Syz -- San Diego Gas & Electric
- Brandi Turner -- San Diego Gas & Electric
- Barby Valentine – Caltrans
- Danae Villicana -- San Diego Gas & Electric
- Coleen Wisniewski – City of Chula Vista
- Kevin Wood – Center for Sustainable Energy
- Dwight Worden – Member of the Public
<table>
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<tr>
<td>Heidi Krantz</td>
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<td>Martin Reeder</td>
<td>City of National City</td>
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<td><strong>SANDAG Staff</strong></td>
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<td>Wesley Edgar</td>
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<td>Susan Freedman</td>
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<td>Keith Greer</td>
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<td>Katie Hentrich</td>
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<td>Jeff Hoyos</td>
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<td>Tessa Lero</td>
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<td>Anna Lowe</td>
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<td>Sarah Pierce</td>
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<td>Kendall Reynolds</td>
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<td>Allison Wood</td>
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<td>Anna Van</td>
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CVRP Rebate Statistics

Rebates by Month (Filtered)

Filter by:

- **Consumer Type**
  - All
- **Rebate Type**
  - All
- **Vehicle Category**
  - All
- **Make**
  - All
- **Funding Source**
  - All
- **Grant Number**
  - All

**Since March 29, 2016**

- Rebates: 19,246
- Funding: $78,722,470
  - Percent of Funding: 13.9%

**Since November 1, 2016**

- Rebates: 17,672
- Funding: $72,965,220
  - Percent of Funding: 14.4%

Rebates Funding

- PHEV: 134,541, $216,968,446
- BEV: 238,937, $619,283,497
- FCEV: 7,195, $36,851,668
- Other: 238,937, $19,246

**Filter by Application Date:** March 18, 2010 to February 29, 2020 and Null values

**Vehicle Category**

- PHEV: Highway capable, four-wheeled, plug-in hybrid electric vehicle (electricity & gasoline)
- BEV: Highway capable, four-wheeled, all-battery electric vehicle
- FCEV: Fuel-cell electric vehicle
- Other: Non-highway, motorcycle & commercial BEVs

**Rebates Issued or Approved to Date**

- PHEV: 31.0%
- BEV: 68.1%
- FCEV: 0.6%
- Other: 0.4%

**Summary of Increased Rebates for Low-/Moderate-Income Consumers**

- Since March 29, 2016: 19,246, $78,722,470
- Since November 1, 2016: 17,672, $72,965,220

**Data is updated monthly. Last updated: August 6, 2020**

Please cite use of these data and images. For example:


Click here to download the entire dataset in Excel format: CVRPSstats.xlsx
CVRP Rebate Statistics

Rebates by Month (Filtered)

Vehicle Category
- PHEV: Highway capable, four-wheeled, plug-in hybrid electric vehicle (electricity & gasoline)
- BEV: Highway capable, four-wheeled, all-battery electric vehicle
- FCEV: Fuel-cell electric vehicle
- Other: Non-highway, motorcycle & commercial BEVs

Rebates Issued or Approved to Date (Filtered)

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<th>BEV</th>
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<th>Other</th>
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<td>Funding</td>
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<td>$619,283,497</td>
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Summary of Increased Rebates for Low-/Moderate-Income Consumers

Since March 29, 2016
- Rebates: 19,246
- Funding: $78,722,470
- Percent of Funding: 13.9%

Since November 1, 2016
- Rebates: 17,672
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Data is updated monthly. Last updated: August 6, 2020

Click here to download the entire dataset in Excel format: CVRPStats.xlsx

Please cite use of these data and images. For example:
Regional Electric Vehicle Charging Program: CALeVIP
San Diego County Incentive Project

Overview

One of the commitments of the 2015 Regional Plan was for SANDAG to establish an incentive program for public EV chargers as a greenhouse gas (GHG) emissions reduction measure in the Sustainable Communities Strategy (SCS), and as a GHG mitigation measure in the Environmental Impact Report (EIR). SANDAG has partnered with the County Air Pollution Control District (APCD) and California Energy Commission’s (CEC’s) California Electric Vehicle Infrastructure Project (CALeVIP) to launch a new incentive for the region called the San Diego County Incentive Project (SDCIP).

This opportunity will make electric vehicle (EV) charger installations easier and more affordable for businesses, commercial properties, multifamily residences, and local government facilities throughout the County. Properties serving disadvantaged and low-income communities are eligible for additional savings. The SDCIP website went live on August 26, and rebate applications will be accepted online beginning October 27, 2020. Several pre-launch resources are now available and planned.

Key Program Components

SDCIP will be a first-come, first-served rebate project for public and workplace Level 2 chargers and Direct Current Fast Chargers (DCFC). Level 2 (standard) chargers are common for home, workplace, and destination charging where someone parks for two or more hours. DCFC chargers support quick stops of about 30 minutes and are common for ride-hail services and people driving long trips that seek to recharge during a break and continue driving. See Attachment 1 for more about EVs in the region.

On August 27, 2020, the CALeVIP project administrator and local non-profit, Center for Sustainable Energy (CSE), hosted a SDCIP project requirements webinar with CSE, CEC, SANDAG, and APCD as panelists. The webinar provided information on rebate amounts by charger type, eligible site types, how to apply, and online resources.

Eligible applicants can apply for up to $80,000 per DC fast charger and up to $6,000 per Level 2 charger. With a three-year incentive budget of about $21.7 million, this project is expected to help fund approximately 1,100 Level 2 chargers and 250 DC fast chargers in the San Diego region. See Table 1 for the program budget.
**Table 1. SDCIP Three-Year Budget**

<table>
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<th>Level 2 Charger Funds <em>(SANDAG/APCD)</em></th>
<th>DCFC Funds <em>(CEC)</em></th>
<th>Total Budget for Incentives$^1$</th>
<th>CSE Project Administration and Tech. Assistance</th>
<th>Total 3-Year Project Budget</th>
</tr>
</thead>
<tbody>
<tr>
<td>$5.9 million$^2</td>
<td>$15.8 million$^3</td>
<td>$21.7 million</td>
<td>$1.7 million$^4</td>
<td>$23.4 million</td>
</tr>
</tbody>
</table>

1. Twenty-five percent of the incentive budget is reserved for installations in disadvantaged communities and low-income communities.

2. SANDAG and APCD funding will be allocated on an annual basis; SANDAG estimates $1.5 million/year and APCD $465K/year for incentives for first three years. SANDAG will seek partnerships opportunities to co-fund future project years.

3. CEC will provide a one-time budget allocation of $15.8 million for DCFC incentives.

4. CSE is the statewide administrator for CAleVIP; Project administration fee was determined through a competitive procurement by CEC and equals 7% of incentive budget. Additional SANDAG budget added for bilingual translation and technical assistance including EV Expert, workforce training, and permit streamlining.

Based on local stakeholder input, SANDAG is working with CSE to provide additional tools and technical assistance for EV readiness efforts that will help make the incentive project a success, including “EV Expert” technical services, EV charger permit streamlining tools to help jurisdictions be EV ready, and an Electric Vehicle Infrastructure Training Program.

**Next Steps**

SDCIP presentations will be given to the Board in October and to working groups and stakeholder groups leading up to the project opening on October 27, 2020. A pre-launch webinar for participants will be held October 6, 2020, to walk through the application process.

A workforce training webinar for electricians and electrical contractors, and a permit streamlining webinar for local governments, are planned for mid to late October through CSE. News about these and future SDCIP events will be available at the SDCIP website (calevip.org/incentive-project/san-diego-county). Instructions for applying for the rebate are available now at SDCIP.

**Antoinette Meier, Director of Mobility and Innovation**

Key Staff Contact: Susan Freedman, (619) 699-7387, susan.freedman@sandag.org

Attachment: 1. SANDAG InfoBits Electric Vehicles in the San Diego Region
Electric Vehicles and Charging Stations

Electric vehicles (EVs) are catching on with consumers and play a big role in the state of California’s plans to cut greenhouse gas (GHG) emissions. With 1.5 million zero-emission vehicles expected on California roads by 2025, and a goal for 5 million by 2030, there is a massive demand for new charging stations.

Converting to Electric Vehicles

**EVs come in two types...**

- **battery electric vehicles (BEV)** runs entirely on electricity

- **plug-in hybrid electric vehicles (PHEV)** have both an electric battery and a gas engine

Benefits of Driving an Electric Vehicle

- Switching to an EV typically reduces fuel costs by half
- Reduced air pollution and GHG emissions
- Lower maintenance costs, including no oil changes
- Increased energy independence by reducing imported fossil fuels and increasing renewable electricity sources

Consumer Incentives

- **Clean vehicle rebates** up to $4,500 per EV purchased
- **HOV lane access stickers** Solo EV drivers can use carpool lanes
- **Federal tax credits** up to $7,500
- **SDG&E EV rates** Pay lower rates for vehicle charging

Infrastructure Programs

- **Regional EV Charger Rebate Program** SANDAG, State, and County partners will launch a public charger incentive program in 2020 under CALeVIP
- **SDG&E** SDG&E will complete the installation of approximately 3,000 charging ports in the near future

1. Rebates based on type of clean vehicle purchased and income eligibility requirements. Applicants with low-to-moderate household incomes are eligible for increased rebate amounts.
2. Once a manufacturer’s EV sales exceed 200,000, the available tax credit for that manufacturer enters a phase out period.
The region and the state are poised for a rapid expansion of EV technology in the next five years. The San Diego region currently is home to about 35,000 EVs, with that number expected to grow to more than 110,000 by 2025. Statewide, the total number of EVs is expected to grow from about 600,000 to 1.5 million in the same time frame. State goals strive for 5 million vehicles on the roads by 2030. There are over 1,500 public charging outlets in the region right now, and that number will likely need to grow by a factor of seven to meet state and regional goals in 2025. Statewide, the number of public charging outlets will need to expand from 20,000 today to 100,000-150,000 in 2025 to satisfy expected growth in EVs and charging demand.

For more information, call (619) 699-1950 or email: pio@sandag.org