MEETING NOTICE
AND AGENDA

REGIONAL ENERGY WORKING GROUP
The Regional Energy Working Group may take action on any item appearing on this agenda.

Thursday, February 23, 2017
11:30 a.m. to 1 p.m.

SANDAG, 7th Floor Conference Room
401 B Street, Suite 800
San Diego, CA 92101

Please take the elevator to the 8th floor to access the meeting room.

Staff Contact: Anna Lowe
(619) 595-5603
anna.lowe@sandag.org

AGENDA HIGHLIGHTS

• CITY OF SAN DIEGO CLIMATE ACTION PLAN UPDATE
• HELIX WATER DISTRICT CLIMATE PLANNING EFFORTS
• PLUG-IN SAN DIEGO PROGRAM EXTENSION

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In compliance with the Americans with Disabilities Act (ADA), SANDAG will accommodate persons who require assistance in order to participate in SANDAG meetings. If such assistance is required, please contact SANDAG at (619) 699-1900 at least 72 hours in advance of the meeting.

To request this document or related reports in an alternative format, please call (619) 699-1900, (619) 699-1904 (TTY), or fax (619) 699-1905.
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. Please complete a Speaker’s Slip, and then present the slip to the Clerk of the Working Group. Members of the public may address the Working Group on any issue under the agenda item entitled Public Comments/Communications/Member Comments. Public speakers are limited to three minutes or less per person unless otherwise directed by the Chair. The Working Group may take action on any item appearing on the agenda.

Public comments regarding the agenda can be sent to SANDAG via comment@sandag.org. Please include the agenda item, your name, and your organization. Email comments should be received no later than 12 noon, two working days prior to the meeting. **Any handouts, presentations, or other materials from the public intended for distribution at the meeting should be received by the Clerk of the Working Group no later than 12 noon, two working days prior to the meeting.**

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 e-notifications via our e-distribution list at either the SANDAG website or by sending an email request to webmaster@sandag.org.

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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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REGIONAL ENERGY WORKING GROUP
Thursday, February 23, 2017

ITEM NO. | RECOMMENDATION
--- | ---
1. | WELCOME AND INTRODUCTIONS
+2. | APPROVAL OF MEETING MINUTES

The Regional Energy Working Group (EWG) is asked to review and approve the minutes from its January 26, 2017, meeting.

3. | PUBLIC COMMENTS/COMMUNICATIONS/MEMBER COMMENTS

Members of the public shall have the opportunity to address the EWG on any issue within the jurisdiction of SANDAG that is not on this agenda. Anyone desiring to speak shall reserve time by completing a “Request to Speak” form and giving it to the EWG coordinator prior to speaking. Public speakers should notify the EWG coordinator if they have a handout for distribution to EWG members. Public speakers are limited to three minutes or less per person. EWG members also may provide information and announcements under this agenda item.

CONSENT

+4. | SAN DIEGO REGIONAL ELECTRIC VEHICLE STATISTICS

The electric vehicle market in the San Diego region is rapidly growing. SANDAG has committed to provide the EWG with monthly updates on regional Clean Vehicle Rebate Program statistics and publicly available charging infrastructure.

REPORTS

+5. | SANDAG 2017 LEGISLATIVE PRIORITIES (Anna Lowe)

The SANDAG Board of Directors approves agency legislative priorities every year. Staff will briefly discuss the 2017 Legislative Priorities.

6. | CITY OF SAN DIEGO CLIMATE ACTION PLAN UPDATE
(Cody Hooven, City of San Diego)

Cody Hooven, City of San Diego, will provide an update on the City of San Diego’s (City) Climate Action Plan (CAP) since its adoption in December 2015. Last year, the City released the CAP Consistency Checklist for development projects and the 2016 Annual Report, which describes progress toward reaching the City’s greenhouse gas emissions reductions targets and how they plan to continue implementing the CAP moving forward. The City’s Annual Report can be viewed at sandiego.gov/sustainability.
7. HELIX WATER DISTRICT CLIMATE PLANNING EFFORTS  
   (Joe Garuba, Helix Water District)  
   INFORMATION  

   Joe Garuba, Helix Water District, will present on some of the climate planning efforts underway at Helix Water District. Many of the local jurisdictions and public agencies in the San Diego region have adopted, are currently preparing, or are considering the development of a Climate Action Plan or sustainability plan.

+8. PLUG-IN SAN DIEGO PROGRAM EXTENSION (Anna Lowe, Jeff Hoyos)  
   INFORMATION  

   SANDAG has been awarded a two-year, $300,000 grant from the California Energy Commission to continue and expand upon the existing Plug-in San Diego Program. Staff will provide an update on the current program and describe how it will expand with the new award.

9. UPCOMING MEETINGS  
   INFORMATION  

   The next meeting of the EWG is scheduled for Thursday, March 23, 2017, at 11:30 a.m.

+ next to an item indicates an attachment
2.

APPROVAL OF MEETING MINUTES (APPROVE)

Action: Upon a motion by Councilmember Carrie Downey (City of Coronado) and a second by Renée Yarmy (San Diego Unified Port District), the EWG approved the minutes from the September 22, 2016, meeting. Yes – Chair Orlando, Vice Chair Scott Anders (Energy Policy Initiatives Center, University of San Diego School of Law), Len Hering (Center for Sustainable Energy), Councilmember Downey, Brendan Reed (San Diego County Regional Airport Authority), Kendall Helm (San Diego Gas & Electric), Mike Evans (San Diego Regional Chamber of Commerce), Debra Kelley (San Diego Regional Clean Cities Coalition), Ms. Yarmy, Paul Webb (Sierra Club), and Dave Weil (University of California, San Diego). No – None. Abstain – None. Absent – City of San Diego Subregion, County of San Diego Subregion, East County Subregion, Economic Development, North County Coastal Subregion, and Public Transit Operators.

Action: Upon a motion by Councilmember Downey and a second by Ms. Yarmy, the EWG approved the minutes from the November 10, 2016, meeting. Yes – Chair Orlando, Vice Chair Anders, Mr. Hering, Councilmember Downey, Mr. Reed, Ms. Helm, Mr. Evans, Ms. Kelley, Ms. Yarmy, Mr. Webb, and Mr. Weil. No – None. Abstain – None. Absent – City of San Diego Subregion, County of San Diego Subregion, East County Subregion, Economic Development, North County Coastal Subregion, and Public Transit Operators.

3.

PUBLIC COMMENTS/COMMUNICATIONS/MEMBER COMMENTS

John Wotzka, a member of the public, submitted written comments and spoke about energy-related news, which included nuclear power generation and associated issues, renewable energy, traditional fossil fuel and power plant issues, alternative fuels and shale gas, climate change impacts and greenhouse gas (GHG) emissions, the regional energy strategy, and renewable energy financial matters.

Katie Hentrich (SANDAG) informed EWG members about an upcoming grant opportunity from the California Energy Commission.
Robyn Wapner (SANDAG) shared information about another grant funding opportunity, the Transformative Climate Community Program scoping guidelines.

Vice Chair Anders provided an update on the Air Resources Board Proposed Scoping Plan.

Mr. Evans informed EWG members that Senator Kevin de León is proposing to accelerate the 50 percent portfolio renewable standard. Senator Steven Bradford is proposing legislation to change the community choice aggregation (CCA) structure, which would essentially eliminate CCAs in California. Lastly, Mr. Evans suggested that the EWG address the CCA issue in the San Diego region.

CONSENT

4. 2017 MEETING SCHEDULE AND MEMBERSHIP ROSTER (INFORMATION)

The 2017 calendar year meeting dates and Membership Roster for the EWG were provided.

Action: This item was presented for information.

5. SAN DIEGO REGIONAL ELECTRIC VEHICLE STATISTICS (INFORMATION)

The electric vehicle market in the San Diego region is rapidly growing. Updates from the Clean Vehicle Rebate Program on regional vehicle growth were provided.

Action: This item was presented for information.

REPORTS

6. REGIONAL ENERGY WORKING GROUP MEMBERSHIP AND CHARTER (APPROVE)

Originally, Item No. 6 was an approval item. Chair Orlando presented the item for discussion instead.

Chair Orlando discussed with the EWG any potential questions, comments, revisions, or updates identified. Chair Orlando also encouraged the members to present ideas for future meeting topics.

Mr. Evans and Councilmember Downey emphasized the importance of the EWG and its purpose to serve as a regional forum for discussion on energy and climate related topics.

Some of the suggested topics for the coming year included CCA, the Air Resources Board Proposed Scoping Plan, regional energy strategy implementation, obligations for cities to meet state guidelines, the role doubling of efficiency standards goal plays in the region, zero net energy, expansion of electric vehicles, hydrogen infrastructure and fueled vehicles, the Volkswagen settlement, energy storage, California Public Utilities Commission regulations on IOUs, codes and standards needed to reach state goals, electric vehicle transportation infrastructure, and city outreach.

Action: This item was presented for discussion.
7. NEW AIRPORT GREENHOUSE GAS REGULATIONS FOR TRANSPORTATION NETWORK COMPANIES (INFORMATION)

Mr. Reed presented the item for information.

The San Diego Airport Authority is one of the few airports in the nation to address GHG emissions from Transportation Network Companies (TNCs). Mr. Reed presented the framework the airport will now be using to incentivize TNCs to reduce their GHG emissions and improve local air quality.

**Action:** This item was presented for information.

8. SAN DIEGO REGIONAL PARTNERSHIP UPDATE (INFORMATION)

Jennifer Green (Center for Sustainable Energy) presented the item.

The San Diego Regional Energy Partnership (SDREP) helps support regional energy efficiency programs and opportunities that complement the Energy Roadmap Program. The Center for Sustainable Energy presented SDREP benchmarking assistance opportunities for municipalities and their businesses to reach state and local energy efficiency and renewable energy goals.

**Action:** This item was presented for information.

9. UPCOMING MEETINGS (INFORMATION)

The next meeting of the EWG is scheduled for Thursday, February 23, 2017, from 11:30 a.m. to 1 p.m.

Chair Orlando adjourned the meeting at 1:04 p.m.
# Regional Energy Working Group
## Meeting Attendance for January 26, 2017

<table>
<thead>
<tr>
<th>Representation</th>
<th>Jurisdiction/Organization</th>
<th>Name</th>
<th>Member/Alternate</th>
<th>Attending</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>North County Inland Subregion</strong></td>
<td>City of San Marcos</td>
<td>Hon. Chris Orlando, Chair</td>
<td>Member</td>
<td>YES</td>
</tr>
<tr>
<td></td>
<td>City of Vista</td>
<td>Hon. Amanda Rigby</td>
<td>Alternate</td>
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<tr>
<td><strong>Energy Non-Profits</strong></td>
<td>Energy Policy Initiatives Center, University of San Diego School of Law</td>
<td>Scott Anders, Vice Chair</td>
<td>Member</td>
<td>YES</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Nilmini Silva-Send</td>
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<td></td>
<td>Center for Sustainable Energy</td>
<td>Len Hering</td>
<td>Member</td>
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<tr>
<td></td>
<td></td>
<td>Hanna Grene</td>
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<tr>
<td><strong>Business</strong></td>
<td>San Diego Regional Chamber of Commerce</td>
<td>Mike Evans</td>
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<td></td>
<td></td>
<td>Sean Karafin</td>
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<tr>
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<td></td>
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<td>Hon. David Alvarez</td>
<td>Alternate</td>
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<td></td>
<td></td>
<td>Jack Clark</td>
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<td></td>
<td></td>
<td>Charles Marchesano</td>
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<td></td>
<td></td>
<td>Susan Freed</td>
<td>Alternate</td>
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<tr>
<td><strong>East County Subregion</strong></td>
<td>City of Santee</td>
<td>Hon. Rob McNelis</td>
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<tr>
<td><strong>Economic Development</strong></td>
<td>Cleantech San Diego</td>
<td>Jason Anderson</td>
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<td></td>
<td></td>
<td>Alyssa Gutner-Davis</td>
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<td>North County Economic Development Council</td>
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<td><strong>Energy Utility</strong></td>
<td>San Diego Gas &amp; Electric</td>
<td>Kendall Helm</td>
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<td></td>
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<td>Cameron Durckel</td>
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<td><strong>Environment/Social Justice</strong></td>
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<td></td>
<td>Sierra Club</td>
<td>Paul Webb</td>
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<td></td>
<td></td>
<td>Dave Grubb</td>
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<td>REPRESENTATION</td>
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<td>NAME</td>
<td>MEMBER/ ALTERNATE</td>
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<td>Vacant</td>
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<td>Other Public Agencies</td>
<td>San Diego County Regional Airport Authority</td>
<td>Brendan Reed</td>
<td>Member</td>
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<td></td>
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<td>Brett Caldwell</td>
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<td></td>
<td>San Diego Unified Port District</td>
<td>Renée Yarmy</td>
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<td></td>
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<td>Rachel Stern</td>
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<td>Public Transit Operators</td>
<td>Metropolitan Transit System</td>
<td>Sharon Cooney</td>
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<td>North County Transit District</td>
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<td>South County Subregion</td>
<td>City of Chula Vista</td>
<td>Hon. Pamela Bensoussan</td>
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<td>City of Coronado</td>
<td>Hon. Carrie Downey</td>
<td>Member</td>
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<tr>
<td>Transportation Fuels</td>
<td>San Diego Regional Clean Cities Coalition</td>
<td>Debra Kelley</td>
<td>Member</td>
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<td></td>
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<td>Jennifer Case</td>
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<td>Universities</td>
<td>San Diego State University</td>
<td>Dr. Heather Honea</td>
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<td></td>
<td>University of California, San Diego</td>
<td>Dave Weil</td>
<td>Member</td>
<td>YES</td>
</tr>
</tbody>
</table>

OTHER ATTENDEES

Elle Hempen, Atlas Marketplace
Rebecca Sappenfeild, Center for Sustainable Energy
Coleen Wisniewski, City of Chula Vista
Jeff Wyner, City of Escondido
John Rossi, Consultant
Joe Garnba, Helix Water District
John Wotzka, member of the public
Jamie Weisman, Opterra
Denis Vermette, Pilot Power
Cesar Rios, Rios Solutions
Erika Morgan, San Diego Energy District
April Bolduc, San Diego Gas & Electric
Lisa Kay, San Diego Regional Chamber of Commerce

SANDAG STAFF MEMBERS LISTED BELOW

Katie Hentrich
Jeff Hoyos
Anna Lowe
Rob Rundle
Robyn Wapner
CVRP Rebate Statistics

Filter by:

**Consumer Type**
All

**Vehicle Category***
All

**Make**
All

**Air District**
All

**Electric Utility**
All

**County**
San Diego

**California Senate District***
All

**California Assembly District***
All

**Disadvantaged Community***
(All)

**Funding Source***
All

**Grant Number***
All

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**Rebates & Rebate Funding Issued or Approved to Date*** - Life of Project

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<th>Vehicle</th>
<th>Rebates</th>
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<td>PHEV</td>
<td>68,518</td>
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<td>FCEV</td>
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<td>Grand Total</td>
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**Rebates & Rebate Funding Issued or Approved to Date*** - Filtered

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<th>Vehicle</th>
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<th>Funding</th>
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<td>PHEV</td>
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<td>BEV</td>
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<td>FCEV</td>
<td>7</td>
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<tr>
<td>Other</td>
<td>70</td>
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<td>Filtered Total</td>
<td>13,842</td>
<td>$30,968,248</td>
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Data is updated monthly. Last updated: February 01, 2017

# 2017 LEGISLATIVE PROGRAM

**Overarching Goal:** Pursue policy and legislative changes that enable SANDAG to better implement its adopted plans and programs.

**(A) SPONSOR**

<table>
<thead>
<tr>
<th>NO.</th>
<th>GENERAL DESCRIPTION OF GOAL</th>
<th>BOARD POSITION</th>
<th>JURISDICTION</th>
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<tbody>
<tr>
<td>1A</td>
<td>Work with federal, state, and local stakeholders to implement the Federal Surface Transportation Authorization, including appropriate funding levels, goods movement and border programs, transit investment and reforms, process improvements (including streamlined environmental processes), active transportation, and tribal transportation planning. (2007, 2012)</td>
<td>Sponsor</td>
<td>Federal/State</td>
</tr>
<tr>
<td>2A</td>
<td>Pursue resources and funding mechanisms consistent with financial strategies adopted in the Regional Transportation Plan (RTP) and Regional Comprehensive Plan (RCP), including but not limited to increasing revenues for transportation, cap-and-trade revenues, gas tax or equivalent revenue sources, bond measures, public/private partnerships, smart growth, and higher pass-through maintenance/preservation funding. (2012)</td>
<td>Sponsor</td>
<td>Federal/State/Local</td>
</tr>
<tr>
<td>3A</td>
<td>Expand access to resources and technical tools that will enable SANDAG to implement San Diego Forward: The Regional Plan. (2009, 2015)</td>
<td>Sponsor</td>
<td>Federal/State</td>
</tr>
<tr>
<td>4A</td>
<td>Pursue policy and/or legislative changes to enable the use of freeway shoulders as transit lanes on major corridors in the San Diego region. (2006)</td>
<td>Sponsor</td>
<td>State</td>
</tr>
<tr>
<td>5A</td>
<td>Pursue efforts that address border transportation infrastructure needs consistent with the RTP, RCP, and California-Baja California Border Master Plan. (2012)</td>
<td>Sponsor</td>
<td>Federal/State/Local</td>
</tr>
<tr>
<td>6A</td>
<td>Pursue policy and/or legislative changes to streamline the California Environmental Quality Act (CEQA) for public transit improvements, active transportation projects, and other transportation projects located within existing rights-of-way. (2013, 2015)</td>
<td>Sponsor</td>
<td>State</td>
</tr>
<tr>
<td>NO.</td>
<td>GENERAL DESCRIPTION OF GOAL</td>
<td>BOARD POSITION</td>
<td>JURISDICTION</td>
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</tr>
<tr>
<td>7A</td>
<td>Pursue policy and/or legislative changes to improve the planning and implementation of the RTP and its Sustainable Communities Strategy (SCS), including modifying the required planning cycle for major updates of the RTP/SCS and clarifying the level of CEQA analysis required for the associated program environmental document. (2013)</td>
<td>Sponsor</td>
<td>Federal/State</td>
</tr>
</tbody>
</table>

(B) SUPPORT/Oppose

<table>
<thead>
<tr>
<th>NO.</th>
<th>GENERAL DESCRIPTION OF GOAL</th>
<th>BOARD POSITION</th>
<th>JURISDICTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>1B</td>
<td>Legislation that provides incentives to jurisdictions that provide opportunities for more housing, including affordable and transit-oriented developments, supports regional fair-share allocation of housing funds, and provides additional affordable housing funding with greater local/regional control. (2002)</td>
<td>Support</td>
<td>Federal/State</td>
</tr>
<tr>
<td>2B</td>
<td>Policies and/or legislation implementing climate change plans and programs, including cap-and-trade that are consistent with the RCP and RTP. (2007, 2015)</td>
<td>Support</td>
<td>Federal/State/Local</td>
</tr>
<tr>
<td>3B</td>
<td>Efforts to pursue resources to improve regional public safety voice and data communications and interoperability, including connectivity with state and federal systems. (2005)</td>
<td>Support</td>
<td>Federal/State/Local</td>
</tr>
<tr>
<td>4B</td>
<td>Efforts to pursue funding at both the state and federal levels to improve public safety and security in the San Diego region through Automated Regional Justice Information System operations and enhancements, regional transportation system improvements, and activities related to regional emergency preparedness, prevention, and response to catastrophic events. (2003, 2005, 2011)</td>
<td>Support</td>
<td>Federal/State/Local</td>
</tr>
<tr>
<td>5B</td>
<td>Fiscal reform initiatives that enable regions to develop their own fiscal strategies and oppose unfunded mandates on local governments. Pursue initiatives that balance the fiscal influence that sales tax revenues have upon local land use decisions. (2002)</td>
<td>Support</td>
<td>Federal/State/Local</td>
</tr>
<tr>
<td>6B</td>
<td>Lower the current two-thirds voter requirement for special purpose taxes, such as transportation and quality of life improvements, to a simple majority vote. (2002)</td>
<td>Support</td>
<td>State</td>
</tr>
<tr>
<td>7B</td>
<td>Efforts assisting in the implementation of key environmental issues, including habitat conservation, planning, beach restoration and replenishment, and water quality-related issues. (2002)</td>
<td>Support</td>
<td>State/Local</td>
</tr>
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Legend = T: Transportation; R: Regional Planning; P: Public Safety; B: Borders  
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<tr>
<td>8B</td>
<td>Mechanisms providing for the implementation of the RTP, including value pricing, Managed Lanes, High Occupancy Toll Lanes, the alleviation of current constraints on transponder technology, transit priority treatments, Transportation Demand Management, and other efforts that promote efficient use of highways and local roads. (2003)</td>
<td>Support</td>
<td>Federal/State</td>
</tr>
<tr>
<td>9B</td>
<td>Energy-related legislation, programs, and policies that are consistent with the Regional Energy Strategy. (2002, 2015)</td>
<td>Support</td>
<td>Federal/State/Local</td>
</tr>
<tr>
<td>10B</td>
<td>Efforts to expand available methods of transportation project delivery, including design-build, design sequencing, construction manager/general contractor, and other alternative methods that expedite connectivity with state and federal systems. (2005)</td>
<td>Support</td>
<td>State</td>
</tr>
<tr>
<td>11B</td>
<td>Efforts to support funding opportunities and legislation that promote the implementation of effective and collaborative strategies and programs that maintain public safety and promote quality of life and public health, including initiatives that address substance abuse and graffiti abatement and reduce youth and gang violence.</td>
<td>Support</td>
<td>Federal/State/Local</td>
</tr>
<tr>
<td>13B</td>
<td>Efforts to advance Connected and Autonomous Vehicle technology to enhance transportation safety, sustainable and efficient mobility, a healthier environment, and economic growth and job creation. (2017)</td>
<td>Support</td>
<td>Federal/State</td>
</tr>
<tr>
<td>14B</td>
<td>Legislation and/or policies that promote governmental efficiencies and cost savings. (2009, 2015)</td>
<td>Support</td>
<td>Federal/State</td>
</tr>
<tr>
<td>15B</td>
<td>Transit boards’ legislative programs where consistent with SANDAG Policy. (2002)</td>
<td>Support</td>
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<tr>
<td>1C</td>
<td>Proposals that limit the use of eminent domain for public infrastructure projects. (2005)</td>
<td>Monitor</td>
<td>Federal/State</td>
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<tr>
<td>2C</td>
<td>Legislation affecting solid waste, water supply, and storm water, support of funding opportunities to assist in these areas. (2003)</td>
<td>Monitor/Respond</td>
<td>State/Local</td>
</tr>
<tr>
<td>3C</td>
<td>Legislation relating to personnel matters, i.e., workers’ compensation, Public Employee Retirement System benefits, and other labor related issues. (2003)</td>
<td>Monitor/Respond</td>
<td>Federal/State/Local</td>
</tr>
<tr>
<td>4C</td>
<td>Legislation requiring local agencies to implement new administrative compliance measures. (2005)</td>
<td>Monitor/Respond</td>
<td>Federal/State</td>
</tr>
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</table>
Introduction

On January 24, 2014, the SANDAG Board of Directors accepted the San Diego Regional Plug-in Electric Vehicle Readiness Plan (Readiness Plan) as a guide for use by local governments, public agencies, and others to support plug-in electric vehicle (PEV) adoption and electric vehicle charging station (EVCS) deployment throughout the region. In July 2015, SANDAG and the Center for Sustainable Energy (CSE) launched Plug-in San Diego (Plug-in SD) to implement recommendations from the Readiness Plan through a combination of resource development, training, technical assistance, and outreach. Last month, SANDAG received a Notice of Proposed Award from the California Energy Commission (CEC) to continue and expand upon the Plug-in SD Program.

Discussion

Plug-in SD currently is funded through a two-year grant from the CEC’s Alternative and Renewable Fuel and Vehicle Technology Program. Since July of 2015, SANDAG and the CSE have been working to implement the following activities:

- Offer training and technical assistance for local government staff to improve the permitting and inspection process for EVCS
- Develop best practice resources on EVCS installations for local government staff, contractors, and other stakeholders
- Provide technical assistance for siting EVCS at multi-unit dwellings
- Expand PEV awareness activities at dealerships and workplaces

A factsheet on Plug-in SD (Attachment 1) summarizes the current program activities and includes contact information for the EV Expert, an on-call technical resource made available through the grant. Other resources developed through Plug-in SD are available at sandag.org/pluginsd.


**Plug-in San Diego Continuation Funding**

SANDAG has been given a Notice of Proposed Award for an additional two-year, $300,000 grant from the CEC to continue and expand upon the existing Plug-in SD work. In conjunction with the current work being done, including technical assistance from the EV Expert and PEV awareness outreach and education, regional EVCS planning and analysis will be added to the Plug-in SD Program. This includes:

- Regional mapping of EVCS infrastructure and needs based on regional travel patterns and gaps in the existing network
- Estimates of investments and/or incentive levels needed to encourage EVCS installation
- Considerations for disadvantaged communities and equitable distribution of infrastructure

**Next Steps**

The CEC is scheduled to review and approve the funding at their March 8, 2017, Business Meeting. Concurrently, SANDAG staff will be presenting the Regional Planning Committee with a Resolution for recommendation to the SANDAG Board of Directors to approve the receipt of the award on March 3, 2017. Plug-in SD is docketed for the March 24, 2017, SANDAG Board of Directors meeting for approval to accept the award.

Plug-in SD will continue to work with local jurisdiction staff and other EV stakeholders on the implementation of best practices to support EVCS deployment through the availability of the EV Expert services. Bridging the potential gap between the current program and the program extension funding is paramount in maintaining the momentum of the region’s EVCS installations.

Attachment: 1. Plug-in SD: Driving Into the Future

Key Staff Contacts: Jeff Hoyos, (619) 699-1932, jeff.hoyos@sandag.org

Anna Lowe, (619) 595-5603, anna.lowe@sandag.org
Plug-in electric vehicles (PEVs) are growing in popularity in the San Diego region and their numbers are expected to rise with California’s goal of 1.5 million zero-emission vehicles on the road by 2025. With increasing PEVs comes a greater demand for residential, workplace and commercial electric vehicle charging stations (EVCS).

In support of PEV adoption, the Center for Sustainable Energy and the San Diego Association of Governments launched Plug-In SD to provide local stakeholders strategic and technical guidance to help ensure the San Diego region is PEV ready.

## Services for Target Audiences

<table>
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<tr>
<th>Local Governments</th>
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<td>• Permitting and Inspection Best Practices</td>
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<td></td>
<td></td>
<td>• EV Expert Consultations</td>
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</table>

## EV Expert at Your Service

Plug-In SD provides a technical expert who is available to assist PEV and EVCS stakeholders in person, via email or by phone. To schedule a consultation, email evexpert@energycenter.org or call (866) 967-5816.

Learn more about Plug-In SD and PEV/EVCS readiness at energycenter.org/pluginsd.
2016 Climate Action Plan Annual Report

Cody Hooven
Chief Sustainability Officer
Economic Development
chooven@sandiego.gov
619-236-6563
Greenhouse gas emissions

- 2015 Update
- Forecasted Business as Usual
- 2010 Baseline
- Statewide Reduction Targets
- Projected Citywide Results

Goals

Greenhouse gas emissions

100%
Zero

35%
Low Carbon Economy

2010
137 MTCO₂e/$ millions Gross Domestic Product

2015
91 MTCO₂e/$ millions Gross Domestic Product

Job Creation

+ 10.2%
2010-2015 Change

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<tr>
<td>2010</td>
<td>59,356</td>
<td>52,077</td>
<td>59,115</td>
<td>60,834</td>
<td>63,162</td>
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<tr>
<td>2011</td>
<td>59,314</td>
<td>52,076</td>
<td>59,781</td>
<td>61,285</td>
<td>64,480</td>
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<tr>
<td>2012</td>
<td>59,305</td>
<td>52,074</td>
<td>59,784</td>
<td>61,361</td>
<td>64,570</td>
</tr>
<tr>
<td>2013</td>
<td>60,834</td>
<td>62,834</td>
<td>63,160</td>
<td>64,480</td>
<td>67,807</td>
</tr>
<tr>
<td>2014</td>
<td>63,162</td>
<td>67,807</td>
<td>67,807</td>
<td>67,807</td>
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<td>2015</td>
<td>67,807</td>
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Social Equity

- Over $3,500,000 of Community Development Block Grant Program funds invested
  - 68 photovoltaic systems installed
  - 335 improvements to increase safety and energy efficiency for homeowners
  - Street improvements such as new walkways/sidewalks, pedestrian countdown timers, traffic calming, etc.

Good news

San Diego Vows to Move Entirely to Renewable Energy in 20 Years
  - The New York Times

California city’s bipartisan push to embrace clean energy... while paring back greenhouse gas emissions may be a model for rest of the US
  - The Guardian

San Diego adopts an ambitious, and legally binding, plan to cut emissions
  - Los Angeles Times
What's Next

2016 San Diego Sustainability Annual Report

San Diego has set a new national standard for climate action and presents a bold vision for our future. We have committed to cutting greenhouse gas (GHG) emissions in half by 2035. We are also one of the first and largest cities in the nation to commit to 100% renewable energy. We are a Smart City making better use of resources, sustainability and technology. Our first sustainability annual report shows how far we've come. Learn more at www.sandiego.gov/sustainability

Goal to reduce emissions 50% by 2035

Communitywide (GHG) emissions reduced 17% from 2010 baseline

Municipal energy use reduced 16% from 2010 baseline

Residential energy use reduced 6% from 2010 baseline

35% electricity on grid is renewable

17% of downtown commuters walk

93% methane captured and diverted from wastewater treatment

13% urban tree canopy

$10 million saved on electricity

75% landfills were recycled

64% residential water conservation

3,600 clean energy jobs created

2,000 new trees being planted in the downtown core

10.2% increase in sustainable & clean tech jobs

22% reduction in waste sent to landfill

12% reduction in daily waste volume

5,000 new buildings in use

22,098 showing driving, walking, cycling

95% local water use

163,000 additional street lights

$128 million in CIP/FIP created for climate action and resiliency

“Create and sustain a resilient and economically prosperous city”
- City of San Diego Strategic Plan Vision

sandiego.gov
www.sandiego.gov/sustainability
Creating a Sustainable Future

Helix Water District

About Helix

We Serve
• El Cajon
• La Mesa
• Lemon Grove
• Spring Valley
• Areas of Lakeside & Santee
• Unincorporated SD County

Factoids
• Helix is more than 100 years old
• Produce water for more than 500,000 people in San Diego County (15% of the region)
• Serve over 270,000 population (If Helix was a city it would be top 15 in CA)
• Treat 106 million gallons per day
• More than 730 miles of pipe
San Diego Flume - The Original Disneyland

Building for the Future

Current Reality

Fiscal Health
Infrastructure
Technology
Planning for Success

Infrastructure Revitalization Plan

Climate Action Plan

- Facility Assessment
- Energy Efficiency
- GHG Analysis
- Fleet
- Budget

Step 1: Current Reality

- Facility Condition Assessments
- Energy Efficiency Analysis
- GHG Inventory
- Fleet Assessment
Facility Condition Assessments

- Faithful & Gould
- Evaluate condition of buildings
- Standard rating system
- Develop a preliminary schedule/cost

Results
- Buildings are in good shape
- No unknowns
- Changed the perspective

Energy Efficiency Analysis

- Partnership between Helix/SDG&E/IES
- Identify potential improvements
- Estimated ROI
GHG Inventory

• SCS Engineers
• Inventoried 2 years – 2009 & 2013
• Only Scope 1 & 2
• Mobile (fuel) and Stationary (electricity)
• Chemicals (welding) & Gases (pipe freezing)
• Plans to do 2016 this year
2009 and 2013 GHG Emissions by Scope (MTCO2e)

2013 is 5.5% LOWER than 2009

Calendar Year 2009 and 2013 Comparison by Emission Source
Data by Jurisdiction Served

Fleet Assessment

- Evaluate existing portfolio
- Identify potential changes
- Evaluate alternate fuel options

- 40/75 vehicles possible options
- Potential savings - $40,000 per year
- Create opportunities for staff
  - **CHANGE our CULTURE**
Infrastructure Revitalization Plan

Combines
- Facility Condition Assessments
- Energy Efficiency Audit
- Green House Gas Inventory
- Financial forecast

Focuses Plans into Action
- Manage costs
- Schedule improvements
- Predictable

Next Steps

Infrastructure Revitalization Plan
Climate Action Plan

FCA
Energy Efficiency
GHG Analysis
Fleet
Financial

Impacts on Rates

0 50 100 150 200 250 300 350

Revised  WSC
Climate Action Plan
• Still unusual for Water Districts
• GHG emission reduction targets
• CAP Implementation Plan combines
  • Infrastructure Plan
  • Vehicle Analysis
  • Standard Operating Protocols

Key Takeaways
• Organizationally driven
• Just completed data collection
• Planning creates focus and priorities
• Changing internal conversations
• Employee engagement
• Create a story
Questions?

Joe Garuba
Helix Water District
(619) 596-1311
Joe.Garuba@helixwater.org
PLUG-IN SAN DIEGO PROGRAM EXTENSION

Regional Energy Working Group
February 23, 2017

California State Goals for Zero-Emission Vehicles (ZEV)

By 2025, 15 percent of new car sales will be ZEVs
  • Currently, 5 percent of new car sales are ZEVs

By 2025, 1.5 million ZEVs will be operating in CA
  • Currently, California has more than 250,000 ZEVs, which accounts for approximately 40-45 percent of national sales
Past Planning Efforts

San Diego Regional PEV Readiness Plan
- San Diego Regional Electric Vehicle Infrastructure Working Group (REVI)
- Accepted by the SANDAG Board of Directors in January 2014

San Diego Regional Alternative Fuel Readiness Plan
- San Diego Regional Alternative Fuel Coordinating Council (Refuel)
- Accepted by the SANDAG Board of Directors in February 2016

Current Planning Effort

- CA Energy Commission Grant
- Two-years
  - July 2015 – June 2017
- $300,000
- Partnership with the Center for Sustainable Energy
- Goals: Implement PEV Readiness Plan recommendations and ensure the San Diego region is ready for PEVs
Plug-in SD Objectives

- Streamline permitting and inspection processes
- Improve installations
- Workplace and Multi-Unit Dwelling siting
- Establish regional EV expert
- Improve PEV awareness

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Plug-in SD Extension

- CA Energy Commission Grant
- Two-years
  - Launch: July 2017
- $300,000
- Partnership with CSE
- Goals: Implement PEV Readiness Plan recommendations and ensure the San Diego region is ready for PEVs
Plug-in SD Extension Objectives

- Continue existing work
  - EV expert
  - Improve PEV awareness
- Regional mapping of EVCS
- Cost estimates to encourage EVCS installation
- Outreach and awareness activities to disadvantaged communities
- Equitable distribution of infrastructure

Next Steps

- March 3, 2017: SANDAG Regional Planning Committee
- March 8, 2017: CEC Business Meeting
- March 24, 2017: SANDAG Board of Directors
- July 1, 2017: Plug-in SD Phase II

www.energycenter.org/pluginsd
THANK YOU!

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Anna Lowe, SANDAG
anna.low@sandag.org