MEETING NOTICE AND AGENDA

REGIONAL ENERGY WORKING GROUP

The Regional Energy Working Group may take action on any item appearing on this agenda.

Thursday, March 24, 2016

11:30 a.m. to 1 p.m.

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

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

AGENDA HIGHLIGHTS

• CITY OF SAN DIEGO ELECTRIC VEHICLE CHARGING STATIONS
• SAN DIEGO GAS & ELECTRIC CONNECTED TO THE SUN PROGRAM
• STATE ACTIVITIES ON ENERGY AND CLIMATE CHANGE
• CALIFORNIA ENERGY EFFICIENCY COORDINATING COMMITTEE

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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.

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REGIONAL ENERGY WORKING GROUP
Thursday, March 24, 2016

ITEM NO.                      RECOMMENDATION

1. WELCOME AND INTRODUCTIONS

+2. APPROVAL OF MEETING MINUTES

   Approve

   The Regional Energy Working Group (EWG) is asked to review and approve
   the minutes from its February 25, 2016, meeting.

3. PUBLIC COMMENTS/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 meeting coordinator prior to speaking. Public speakers
   should notify the meeting 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.

CHAIR’S REPORT

4. MEMBER SURVEY

   INFORMATION

   EWG members will be receiving a short survey asking about future meeting
   topics and whether to maintain or change the regularly scheduled EWG
   meeting day and time (currently the fourth Thursday of the month from
   11:30 a.m. to 1 p.m.). Staff will report on results at a future EWG meeting.

REPORTS

5. CITY OF SAN DIEGO ELECTRIC VEHICLE CHARGING STATIONS

   INFORMATION

   Jacques Chirazi, City of San Diego, will share the City of San Diego’s efforts to
   provide publicly accessible electric vehicle charging stations (EVCS). Activities
   include the installation of 65 EVCS at various city-owned facilities (e.g.
   community parks, libraries, recreational centers, and on-street), a 400+ vehicle
   permanent car share program. The EWG is encouraged to ask questions and
   see how they can utilize the City’s car share program to further EVCS
   deployment.

+6. SAN DIEGO GAS & ELECTRIC CONNECTED TO THE SUN PROGRAM

   INFORMATION

   San Diego Gas & Electric will present an overview of community-based solar
   programs it will offer customers this year. The Connected to the Sun Program
   was approved by the California Public Utilities Commission on
   January 29, 2015. It includes a SunRate(SM) that should enable customers to
   purchase up to 100 percent local solar energy.
7. **STATE ACTIVITIES ON ENERGY AND CLIMATE CHANGE**

This report summarizes activities taking place at the state level related to energy and climate change, including regulatory proceedings, planning efforts, implementation of past legislation, and pending legislation. EWG members are asked to provide input on topics of interest for future EWG meetings and discuss additional state activities that help to implement the Regional Energy Strategy goals.

8. **CALIFORNIA ENERGY EFFICIENCY COORDINATING COMMITTEE**

The California Public Utilities Commission established a statewide Energy Efficiency Coordinating Committee (EECC) to address energy policy issues pertaining to energy efficiency program sectors that will become part of Business Plans for each investor-owned utility, community choice aggregator, and regional energy network. SANDAG, San Diego Gas & Electric, and other regional organizations are participating in this process. The EWG will receive an overview of the EECC, its subcommittees, and ways to participate.

9. **UPCOMING MEETINGS**

The next meeting of the EWG is scheduled from 11:30 a.m. to 1 p.m. on Thursday, April 28, 2016.

*+ next to an agenda item indicates an attachment*
FEBRUARY 25, 2016, MEETING MINUTES

1. WELCOME AND INTRODUCTIONS

Chair Chris Orlando (City of San Marcos), called the Regional Energy Working Group (EWG) to order at 11:37 a.m.

3. PUBLIC COMMENTS/MEMBER COMMENTS

John Wotzka (member of the public) discussed energy-related news and provided written comments that included information on: nuclear power; solar, wind, hydroelectric, geothermal, and other renewable sources of energy and any possible grid issues related to these forms of energy; traditional fossil fuels and power plants; alternative fuels and shale energy sources; climate change, greenhouse gas and toxic emissions; regional energy strategies; and financial issues with renewables and energy.

Mike Evans (San Diego Regional Chamber of Commerce) commented on the Aliso Canyon gas leak situation and the questions surrounding the possibility of reopening the field in the future. The facility provided peaking gas capacity to generators and for winter gas demand. Without the facility at least partially online, it will cause significant stress to the system. He notified EWG members that the subject may come in front of SANDAG and other government agencies for support.

Vice Chair Scott Anders (Energy Policy Initiatives Center [EPIC]) informed the EWG that the deadline for the California Legislature to post new bills was Friday, February 19, 2016, and EPIC has posted all energy and climate related bills that they are tracking on their website. A link will be provided to interested parties.

REPORTS

4. FUNDING MEASURE: UPDATE (DISCUSSION)

Rob Rundle, Principal Regional Planner, presented the item.

Based on direction from the Board of Directors, SANDAG staff is conducting public education regarding projects included in San Diego Forward: The Regional Plan (Regional Plan), as well as projects that have been delivered through the TransNet transactions and use tax measures. Staff presented highlights of the Regional Plan, described initial ideas of what could be included in a funding measure, and the opportunities for providing input to the discussion. It is anticipated that a draft expenditure plan for a potential November 2016 ballot measure will go to the SANDAG Board on March 25, 2016.
5. **“POWER YOUR DRIVE” SAN DIEGO GAS & ELECTRIC’S NEW ELECTRIC VEHICLE-GRID INTEGRATION PROGRAM FOR THE SAN DIEGO REGION (INFORMATION)**

Greg Haddow, San Diego Gas and Electric (SDG&E), presented the item.

The California Public Utilities Commission recently approved SDG&E’s program for installing grid-integrated electric vehicle charging stations in its service territory. SDG&E presented an overview of the “Power Your Drive” Program, its target locations, participation requirements, and timeline for program sign-up and installations.

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

6. **CALIFORNIA’S INTEGRATED ENERGY POLICY REPORT (INFORMATION)**

Susan Freedman, Senior Regional Planner, presented the item.


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

7. **2016 SANDAG LEGISLATIVE PRIORITIES WITH AN ENERGY NEXUS (INFORMATION)**

The SANDAG 2016 Legislative Program includes policies and proposals for possible federal and state legislation and local activities. Additionally, the goals and recommendations from the Regional Energy Strategy Technical Update (June 2014) serve as a guide for legislative activities to monitor and/or pursue. The EWG was asked to share any bills of which the EWG should be aware of.

**Action**: Chair Orlando asked EWG members to review the chart provided in the staff report and inform the EWG if there are any pieces of legislation that were not included.
8. UPCOMING MEETINGS (INFORMATION)

The next EWG meeting is scheduled from 11:30 a.m. to 1 p.m. on Thursday, March 24, 2016.

9. ADJOURNMENT

Chair Orlando adjourned the meeting at 1:02 p.m.
### REGIONAL ENERGY WORKING GROUP
**MEETING ATTENDANCE FOR February 25, 2016**

<table>
<thead>
<tr>
<th>REPRESENTATION</th>
<th>JURISDICTION/ORGANIZATION</th>
<th>NAME</th>
<th>MEMBER/ALTERNATE</th>
<th>ATTENDING</th>
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<td>North County Inland Subregion</td>
<td>City of San Marcos</td>
<td>Hon. Chris Orlando, Chair</td>
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<td>Hon. Sherri Lightner</td>
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<td>Hon. David Alvarez</td>
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<td>Lori Cosio-Azar</td>
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<td>Charles Marchesano</td>
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<td>San Diego County Regional Airport Authority</td>
<td>Brendan Reed</td>
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<td>Brett Caldwell</td>
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<td>Unified Port District of San Diego</td>
<td>Michelle White</td>
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<td>William Torre</td>
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<td>Dr. Heather Honea</td>
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<td>Energy Utility</td>
<td>San Diego Gas &amp; Electric</td>
<td>Thomas Brill</td>
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<td>Energy Non-Profits</td>
<td>Center for Sustainable Energy</td>
<td>Len Hering</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>Nilmoti Silva-Send</td>
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<td>San Diego Regional Clean Cities Coalition</td>
<td>Greg Newhouse</td>
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<td>Jennifer Case</td>
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<td>Sierra Club</td>
<td>Paul Webb</td>
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<td>Business</td>
<td>San Diego Regional Chamber of Commerce</td>
<td>Mike Evans</td>
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<td>Sean Karafin</td>
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<td>David Lloyd</td>
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OTHER ATTENDEES: SANDAG STAFF MEMBERS LISTED BELOW

John Wotzka – Member of the Public
Mike Grimm – City of Carlsbad
Jeff Wyner – City of Escondido
Kimberly Burke – SDG&E
Andrea Altmann – San Diego Water Authority
Barbara Locci – City of Chula Vista
Katie Wilson – TRC
Greg Haddow – SDG&E
Steve Ferguson – Siemens
Jamie Welsman – OptemaEnergy
Jack Hogan – Clean Energy

Rob Rundle
Allison Wood
Anna Lowe
Katie Hentrich
Susan Freedman
Kyle Rice
Marisa Mangan
Did you know?

- We’re committed to creating a strong and sustainable solar future for the San Diego region.
- Currently, only about one third of our customers have access to solar power.

Rooftop solar installations in the San Diego region have grown eightfold since 2008, providing nearly 360 megawatts (MW) of clean power. However, access to solar is currently limited. Roughly two thirds of San Diego homes don’t have access to solar.

To address this issue, we’ve created SunRateSM. SunRate gives you the option to buy solar power, even if you don’t own a home, can’t afford the upfront cost of solar or do not have the ability to put photovoltaic panels on your roof.

How SunRate works

- We set aside solar projects under contract for customers.
- You subscribe to pay the SunRate price for up to 100 percent of your electricity use.
- You receive solar energy from us.

As much as 59 MW of solar power will be available under this rate. The price will be based on the energy cost from our solar projects. This could result in a higher energy rate. Once you’re on the solar energy rate, you can keep your solar service as long as you remain within our service area, even if you move. The target date for this rate to be available is early 2016.

For more information about SunRate, please call 1-800-411-7343 or visit sdge.com/ctts.
STATE ACTIVITIES ON ENERGY AND CLIMATE CHANGE

Introduction

This report summarizes activities taking place at the state level related to energy and climate change, including regulatory proceedings, planning efforts, implementation of past legislation, and pending legislation. Regional Energy Working Group (EWG) members are asked to provide input on topics of interest for future EWG meetings and discuss additional state activities and/or new legislation that help implement the Regional Energy Strategy (RES) goals.

2016 State Legislation

The bill introduction deadline for 2016 was February 19, 2016. The deadline for fiscal bills to pass out of a policy committee is April 22, 2016, and out of a fiscal committee is May 27, 2016. Attachment 1 summarizes bills related to energy and climate change.

Energy and Climate Change Activities

While not an exhaustive list, the following sections summarize activities underway across several state agencies related to greenhouse gas (GHG) reduction, energy efficiency, renewable energy, alternative fuels and zero-emission vehicles (ZEVs), and climate adaptation. At last month’s EWG meeting, staff presented on the Integrated Energy Policy Report (IEPR) adopted by the California Energy Commission (CEC) in February 2016. The IEPR covers a range of issues that are related to the activities described in this report.

Staff monitor and/or participate in these activities as they relate to implementation of the RES. SANDAG is also a member of groups that are active in statewide energy and climate change efforts, including the San Diego Regional Climate Collaborative, Local Government Sustainable Energy Coalition, Alliance of Regional Collaboratives for Climate Adaptation (ARCCA), and San Diego Regional Clean Cities Coalition.

GHG Reduction

Assembly Bill 32 (AB 32) Scoping Plan Update

Governor Brown’s Executive Order B-30-15 directed the California Air Resources Board (ARB) to update the AB 32 Scoping Plan to reflect a new mid-term GHG reduction target of 40 percent below 1990 levels by 2030. The updated Scoping Plan also will account for the new targets for 2030.
established in Senate Bill 350 (De León, 2015), including a 50 percent Renewable Portfolio Standard, doubling of statewide energy efficiency savings, and widespread transportation electrification. ARB plans to have a discussion draft of the Scoping Plan available in May 2016 with adoption by the end of 2016. More information is available at: http://www.arb.ca.gov/cc/scopingplan/scopingplan.htm

**Cap-and-Trade Programs**

As part of the budget process, $1.4 billion was appropriated for cap-and-trade in FY 2015-2016. The Governor has included approximately $3 billion for cap-and-trade in his proposed FY 2016-2017 budget. In January 2016, the second Investment Plan was submitted to the Legislature. The Investment Plan identifies priority investments that will help to reduce GHG emissions while realizing additional health, economic, and environmental benefits from FY 2016-2017 through FY 2018-2019. ARB recently submitted the 2016 Annual Report to the Legislature on the status of projects funded from the Greenhouse Gas Reduction Fund (GGRF). The Investment Plan, Annual Report, Budget Appropriations, and information on programs funded by GGRF are available at: http://www.arb.ca.gov/auctionproceeds.

**Energy Efficiency**

**California Energy Efficiency Coordinating Committee**

The California Energy Efficiency Coordinating Committee (CAEECC) and its subcommittees were authorized by California Public Utilities Commission (CPUC) Decision 15-10-028. This new forum is the venue by which stakeholders can provide early input into the development of the Program Administrators’ five-year energy efficiency business plans. Policy and program discussions on existing energy efficiency efforts and ways to meet Governor Brown’s 2030 goals are part of this activity. The Program Administrators are the investor-owned utilities (IOUs), community choice aggregators, and regional energy networks. More information will be presented in the next agenda item, and online resources for the CAEECC are available at: http://www.caeecc.org/.

**Building Energy Use Benchmarking and Public Disclosure Program**

Assembly Bill 802 (Williams, 2015) mandates the establishment of a new statewide building energy use benchmarking and public disclosure program and requires utilities to provide energy consumption data for covered buildings to the building owners upon request. Through 2016, the CEC will conduct a rulemaking to develop regulations and establish the infrastructure for the new benchmarking program with plans for the new program to become effective in 2017. More information and ways to participate in the rulemaking are available at: http://www.energy.ca.gov/benchmarking/.

**Renewable Energy**

**Net Energy Metering (NEM) Successor Tariff**

As discussed at the January EWG meeting, on January 28, 2016, the CPUC approved Decision 16-01-044, adopting a NEM successor tariff that continues the existing NEM structure while making adjustments to align the costs of NEM successor customers more closely with those of non-NEM customers. In March, parties to the proceeding, including San Diego Gas & Electric, Southern California Edison, Pacific Gas & Electric, The Utility Reform Network, and Coalition of California

Distribution Resource Plans

In July 2015, the IOUs filed their Distribution Resource Plan Applications which outline how each IOU will accommodate distributed energy resources, including distributed renewable generation resources, energy efficiency, energy storage, electric vehicles, and demand response technologies. As outlined in the Scoping Memo and Ruling from January 2016, the proceeding will continue into 2017 across three separate Tracks: Methodological Issues, Demonstration and Pilot Projects, and Policy Issues. The proceeding is currently focused on developing estimates of localized avoided costs and benefits. Additional information, including materials from past workshops, is available at: http://www.cpuc.ca.gov/General.aspx?id=5071.

ZEVs and Alternative Fuels

ZEV Action Plan Update

Following Governor Brown’s Executive Order B-16-12, the Governor’s Office prepared the 2013 ZEV Action Plan. In 2015, the Governor’s Office began assessing progress and accomplishments since 2013 to draft the updated 2016 ZEV Action Plan, which is planned to be completed in spring 2016. This updated plan will have closer ties to the California Sustainable Freight Action Plan described below. Additional information is available at: https://www.gov.ca.gov/s_zevactionplan.php.

California Sustainable Freight Action Plan

The California Sustainable Freight Action Plan aims to improve freight efficiency, transition to zero-emission technologies, and increase competitiveness of the state’s freight system. ARB, in coordination with several other state agencies held regional workshops in early 2016 to inform the plan’s development. A draft plan is anticipated in spring 2016 with a final plan in July 2016. More information is available at: http://www.arb.ca.gov/gmp/sfti/sfti.htm.

Funding Plan for Low Carbon Transportation and Fuels Investments and the Air Quality Improvement Program (AQIP)

ARB is currently developing the FY 2016-2017 Funding Plan for Low Carbon Transportation and Fuels Investments and AQIP. The Funding Plan anticipates $500 million from GGRF and $28.6 million from AQIP for programs such as the Clean Vehicle Rebate Project, light-duty vehicle pilot projects, the Hybrid and Zero-Emissions Truck and Bus Voucher Incentive Project, and advanced technology demonstration projects. A public workshop (and webcast) will be on April 4, 2016. ARB plans to release the proposed Funding Plan in May 2016 prior to Board consideration in June 2016. More information is available at: http://www.arb.ca.gov/msprog/aqip/aqip.htm.

Climate Adaptation and Resiliency

In response to Governor Brown’s Executive Order B-30-15, as well as legislation passed in 2015, several state efforts are underway to address climate adaptation and resiliency. The Executive Order directs state agencies to consider climate adaptation in their decision making, including planning,
grants, infrastructure, permitting, and local assistance. The Governor’s Office of Planning and Research (OPR) has formed a Technical Advisory Group to inform the development of guidance to state agencies.

Senate Bill 379 (Jackson, 2015) requires that beginning in 2017, every update to a local hazard mitigation plan (LHMP) must include adaptation strategies and by 2022, all cities and counties must adopt a climate-conscious LHMP. Senate Bill 246 (Wieckowski, 2015) directs OPR to establish the Integrated Climate Adaptation and Resiliency Program to coordinate state, regional, and local activities. Staff monitors and participates in these efforts via the San Diego Regional Climate Collaborative, and coordinates with other regions across the state as part of ARCCA.

Safeguarding California Implementation Action Plans

Assembly Bill 1482 (Gordon, 2015) directs the California Natural Resources Agency (CNRA) to develop implementation action plans for Safeguarding California, the state’s climate adaptation plan. In addition, CNRA must update Safeguarding California by July 2017 and every three years thereafter. In March 2016, CNRA released Safeguarding California: Implementation Action Plans, which looks across ten sectors, including energy, transportation, and water, and presents risks posed by climate change, adaptation efforts underway, and actions that will be taken to safeguard residents, property, communities, and natural systems. State agencies are required to report on actions taken by June 2016. The full Implementation Action Plans and additional information is available at: http://resources.ca.gov/climate/safeguarding/.

Next Steps

Staff will continue to provide updates to the EWG on relevant state legislation and activities.


Key Staff Contact: Allison Wood, (619) 699-1973, allison.wood@sandag.org
<table>
<thead>
<tr>
<th>Bill Number</th>
<th>Title</th>
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<td>AB 33 (Quirk D)</td>
<td>Electrical Corporations: Procurement Plans</td>
<td>12/1/2014</td>
<td>1/28/2016-Rereferred</td>
<td>The Public Utilities Act requires the California Public Utilities Commission (CPUC) to review and accept, modify, or reject each electrical corporation's procurement plan and requires that each approved procurement plan accomplish specified objectives. This bill would require the CPUC, as part of a new or existing proceeding, to determine what role large scale energy storage could play as part of the state's overall strategy for procuring a diverse portfolio of resources and to consider specified factors in making that determination.</td>
</tr>
<tr>
<td>AB 1530 (Levine D)</td>
<td>Electricity: Distributed Generation</td>
<td>3/18/2015</td>
<td>1/28/2016-Rereferred to Coms. on E., U., &amp; C. and E.Q.</td>
<td>Would require the CPUC, in consultation with the California Energy Commission (CEC) and the California Air Resources Board (ARB), to promote the deployment of clean distributed energy resources, as defined, in order to provide a stable and reliable supply of electricity. The bill would require the CPUC to prioritize deployment of smart grids, microgrids, and reliable energy resources that reduce emissions of greenhouse gases (GHGs) to promote specified benefits.</td>
</tr>
<tr>
<td>AB 1698 (Hadley R)</td>
<td>Renewable Energy</td>
<td>1/25/2016</td>
<td>2/18/2016-Referred to Coms. on Natural Resources (NAT. RES.) and Utilities and Commerce (U. &amp; C.).</td>
<td>Current law continuously appropriates specified portions of the annual proceeds in the Greenhouse Gas Reduction Fund (GGRF) to various programs related to transportation, affordable housing, and sustainable communities. This bill would discontinue the Electric Program Investment Charge (EPIC) surcharge and repeal the EPIC Fund. The bill would create the Green and Renewable Energy Enlisting New Technologies (GREEN) Fund to fund the GREEN program. The bill would transfer previously collected EPIC moneys to a specified account within the GREEN Fund.</td>
</tr>
<tr>
<td>Bill Number</td>
<td>Title</td>
<td>Introduced</td>
<td>Status</td>
<td>Summary</td>
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<tr>
<td>AB 1710</td>
<td>Vehicular Air Pollution: Advanced-Technology Light-Duty Vehicles</td>
<td>1/26/2016</td>
<td>2/18/2016-Referred to Com. on Transportation.</td>
<td>The Charge Ahead California Initiative, administered by ARB, includes goals of, among other things, placing in service at least 1,000,000 zero-emission and near-zero-emission vehicles by January 1, 2023, and increasing access for disadvantaged, low-income, and moderate-income communities and consumers to zero-emission and near-zero-emission vehicles. This bill would require, on or before January 1, 2019, ARB, in coordination with the CEC and the Department of Transportation, to develop and implement a comprehensive program to promote advanced-technology light-duty vehicle deployment in the state to drastically increase the use of those vehicles and to meet specified goals established by the Governor and the Legislature.</td>
</tr>
<tr>
<td>AB 2673</td>
<td>Sales and Use Tax Exemption: Income Tax Credits Hydrogen Refueling Station Equipment</td>
<td>2/19/2016</td>
<td>3/10/2016-Referred to Com. on Revenue and Taxation.</td>
<td>Would, on and after January 1, 2017, and before January 1, 2030, exempt from sales and use taxes the gross receipts from the sale of, and the storage, use, or other consumption in this state of, hydrogen refueling station equipment, as defined, purchased by a recipient of a grant pursuant to the Alternative and Renewable Fuel and Vehicle Technology Program for the development of hydrogen refueling stations. This bill contains other related provisions and other existing laws.</td>
</tr>
<tr>
<td>AB 2699</td>
<td>Department of Consumer Affairs: Solar Companies: Solar Energy Systems</td>
<td>2/19/2016</td>
<td>3/10/2016-Referred to Coms. on Business and Professions and Judiciary.</td>
<td>Would, among other things, require a solar company selling, financing, or leasing a solar energy system, as defined, to provide each customer with a specified &quot;solar energy system disclosure document.&quot; The bill would also require the Department of Consumer Affairs to adopt a regulation that includes a specified &quot;Department of Consumer Affairs solar energy system disclosure document&quot; informing customers of the risks and rewards of solar energy system ownership and warranty issues, and protecting those customers from unscrupulous or unfair business practices.</td>
</tr>
<tr>
<td><strong>AB 2702 (Atkins D)</strong>  Climate Change</td>
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<tr>
<td>Introduced: 2/19/2016</td>
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<tr>
<td>Status: 2/22/2016-Read first time.</td>
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<tr>
<td>Summary: Would state the intent of the Legislature to enact legislation that would continue the work with local governments, state agencies, and others to meet the goals set forth in Governor Brown's Under 2 MOU, which brings together subnational governments willing to commit to either reducing the emissions of GHGs 80 percent to 95 percent below 1990 levels by 2050 or achieving a per capita annual emissions target of less than two metric tons of carbon dioxide equivalent by 2050.</td>
<td></td>
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<table>
<thead>
<tr>
<th><strong>AB 2722 (Burke D)</strong>  Transformative Climate Communities Program</th>
</tr>
</thead>
<tbody>
<tr>
<td>Introduced: 2/19/2016</td>
</tr>
<tr>
<td>Status: 3/10/2016-Referred to Com. on NAT. RES.</td>
</tr>
<tr>
<td>Summary: Would create the Transformative Climate Communities Program, to be administered by the Strategic Growth Council (Council). The bill would appropriate $250,000,000 from GGRF to the Council to administer the program. The bill would require the Council, in coordination with the California Environmental Protection Agency Assistant Secretary for Environmental Justice and Tribal Affairs, to award competitive grants to specified eligible entities for transformative climate community plans in disadvantaged communities, as defined.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>SB 32 (Pavley D)</strong>  California Global Warming Solutions Act of 2006</th>
</tr>
</thead>
<tbody>
<tr>
<td>Introduced: 12/1/2014</td>
</tr>
<tr>
<td>Status: 9/11/2015-Failed Deadline pursuant to Rule 61(a)(14). (Last location was NAT. RES. on 9/10/2015)</td>
</tr>
<tr>
<td>Summary: Would require ARB to approve a statewide GHG emissions limit that is equivalent to 40 percent below the 1990 level to be achieved by 2030. The bill also would state the intent of the Legislature for the Legislature and appropriate agencies to adopt complementary policies that ensure the long-term emissions reductions advance specified criteria. This bill contains other related provisions and other existing laws.</td>
</tr>
<tr>
<td><strong>SB 286 (Hertzberg D)  Electricity: Direct Transactions</strong></td>
</tr>
<tr>
<td>--------------------------------------------------------</td>
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<tr>
<td>Introduced: 2/19/2015</td>
</tr>
<tr>
<td>Status: 3/1/2016-From committee with author's amendments. Read second time and amended. Re-referred to Com. on Appropriations.</td>
</tr>
<tr>
<td>Summary: Would require the CPUC to adopt and implement a schedule that implements a second phase-in period for expanding direct transactions for individual retail nonresidential end-use customers over a period of not more than three years, raising the allowable limit of kilowatt-hours that can be supplied by other providers in each electrical corporation's distribution service territory by that electrical corporation's share of an aggregate of 8,000 gigawatt-hours, apportioned as specified. The bill would require that 75 percent of an electric service provider's retail sales associated with each second phase direct transaction to be procured from eligible renewable energy resource during 2016, increasing to 100 percent by December 31, 2020.</td>
</tr>
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<tr>
<th><strong>SB 1207 (Hueso D)  Energy: Conservation: Financial Assistance</strong></th>
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</tr>
</thead>
<tbody>
<tr>
<td>Introduced: 2/18/2016</td>
<td></td>
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<tr>
<td>Summary: Current law requires the CEC to administer the State Energy Conservation Assistance Account, a continuously appropriated account in the General Fund, to provide grants and loans, until January 1, 2018, to schools, hospitals, public care institutions, and local governments to maximize energy use savings. This bill would extend the operation of those provisions to January 1, 2028, and would thereby make an appropriation by extending the time during which the funds deposited in a continuously appropriated account are made available for expenditure.</td>
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<tr>
<td>Introduced: 2/19/2016</td>
<td></td>
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<tr>
<td>Status: 3/10/2016-Referred to Com. on Governance and Finance.</td>
<td></td>
</tr>
<tr>
<td>Summary: Would exempt from sales and use taxes, on and after January 1, 2017, and before January 1, 2030, the gross receipts from the sale of, and the storage, use, or other consumption of, qualified tangible personal property purchased by a qualified person, as defined, for use primarily in, at, or on a marine terminal or qualified tangible personal property used primarily to maintain, repair, or test the above-described equipment, as provided. The bill would require the purchaser to furnish the retailer with an exemption certificate, as specified. This bill contains other related provisions and other existing laws.</td>
<td></td>
</tr>
<tr>
<td><strong>SB 1453 (De León D)</strong></td>
<td><strong>Electrical Generation: Greenhouse Gases Emission Performance Standard</strong></td>
</tr>
<tr>
<td>------------------------</td>
<td>--------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>Introduced: 2/19/2016</td>
<td>Status: 3/10/2016-Referral to Coms. on E., U., &amp; C. and E.Q.</td>
</tr>
<tr>
<td>Summary: Would require the CPUC to review any capital expenditure proposed by an electrical corporation for baseload generation that does not comply with the GHG emission performance standard established by the CPUC and to not permit those costs to be recovered in rates if it finds, among other things, that the proposed capital expenditure will materially extend the service life of the baseload generation. This bill contains other related provisions and other existing laws.</td>
<td></td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>SB 1464 (De León D)</strong></th>
<th><strong>California Global Warming Solutions Act of 2006: Greenhouse Gas Emissions Reduction</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Introduced: 2/19/2016</td>
<td>Status: 3/10/2016-Referral to Com. on E.Q.</td>
</tr>
<tr>
<td>Summary: Current law requires ARB to consult with other states, the federal government, and other nations to identify the most effective strategies and methods to reduce GHG emissions, manage GHG control programs, and facilitate the development of integrated and cost-effective regional, national, and international GHG reduction programs. This bill would require the state board to also consult with local agencies for these purposes.</td>
<td></td>
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</table>
Introduction

In Decision 15-10-028, the California Public Utilities Commission (CPUC) mandated development of five-year Energy Efficiency Business Plans by the investor-owned utilities and other energy efficiency program administrators (PAs). The business plans are to outline how new and continuing programs will enable the state to reach the Governor’s 2030 energy and climate goals and meet sector-based goals identified in the California Energy Efficiency Long Term Strategic Plan. The CPUC also authorized the establishment of the California Energy Efficiency Coordinating Committee (CAEECC or Coordinating Committee) to advise the PAs as they develop business plans. The CPUC established the CAEECC to allow for greater stakeholder involvement and influence on energy efficiency policies and programs, and it directed the Natural Resources Defense Council (NRDC) to manage the CAEECC and its subcommittees. An overview of the stakeholder process, business plans, and timelines are described below.

Discussion

The Coordinating Committee members are the investor-owned utilities, community choice aggregators, regional energy networks; and other stakeholders include the Center for Sustainable Energy, NRDC, California Energy Commission, Local Government Sustainable Energy Coalition, Office of Ratepayer Advocates, and labor organizations. Six subcommittees were formed to hold detailed discussions by specific energy-program sectors: commercial, residential, agricultural, industrial, public, and cross-cutting (cross-cutting includes workforce development, codes and standards, and emerging technologies). Attachment 1 is an NRDC presentation about the CAEECC and stakeholder process that was given at the Public Sector Subcommittee meeting on March 16, 2016. Information on individual subcommittees and ways to participate are available at: http://www.caeecc.org/.

The CAEECC and its subcommittees are holding meetings concurrently over the next six months. Monthly Coordinating Committee meetings began in January 2016. The Commercial and Residential Subcommittees held their first meetings in San Diego on February 22 and 23 respectively. The remaining subcommittees held their initial meetings over March 15-18 in the Bay Area. Meetings are to rotate across the state, provide remote access, and be open to the public.

Gap analyses for each subsector were presented by each PA at the February and March subcommittee meetings. Sharing their data, barriers, and needs at these meetings was meant to enable interested stakeholders and other committee members to better understand the rationale
for their program decisions. Through this process, the subcommittees are to identify ways to achieve greater energy savings, and then the wider Coordinating Committee will provide policy and programmatic recommendations to each PA for their Energy Efficiency Business Plans.

**Next Steps**

The CAEECC is expected to review and make recommendations on draft sector-specific business plan components in June, and final business plans before September 2016. Staff and/or local Coordinating Committee members can provide updates to the EWG on the CAEECC, its subcommittees, and the Energy Efficiency Business Plans.


Key Staff Contact: Susan Freedman, (619) 699-7397, susan.freedman@sandag.org
STAKEHOLDER ENGAGEMENT PROCESS FOR ENERGY EFFICIENCY BUSINESS PLAN DEVELOPMENT

March, 2016

Agenda

• Purpose of the stakeholder process
• Roles of participants
• Subcommittee process
• Process to provide feedback
• How to get involved
Purpose of the Coordinating Committee

1. Facilitate an open and transparent process
2. Review and provide input into efficiency business plans
3. Seek to find efficiencies in various formal and informal processes
4. Improve accessibility and transparency of energy efficiency activities
5. Provide a scheduled forum to discuss ideas or to resolve differences

Roles of Participants

• The CC’s role is “to advise the PAs” and should be a balanced representation of stakeholders, not dominated by any PA or non-PA stakeholder.

• The Commission continues to be responsible for oversight of PAs and approval of programs, budgets, policies, and other items currently within the purview of Commission authority.

• Parties/Stakeholders continue to participate in the existing formal process and have the opportunity to comment on the record regardless of what is discussed or decided as part of the CC and related stakeholder processes.

Source: CC Charter and D.15-10-028
Roles of Participants Cont.

- The Program Administrators (PAs) continue to be responsible for the content of what is filed with the Commission (i.e., applications and advice letters) and for administering portfolios that best meet Commission guidance, State goals, and customer needs. PAs also bear responsibility for what PAs post to Commission-maintained web sites pursuant to this decision (e.g., implementation plans).

Role of Subcommittee Participants

- Subcommittees will be used to review and provide early input into business plans. This is where the detailed, “in the weeds” work gets done to inform the business plans
- Be prepared and participate productively
- Share feedback early to inform BP development
- Focus on program/strategy/intervention design consistent with the strategic plan and other state and energy agency requirements
- Provide feedback at subcommittee level first
Proposed Roadmap for Business Plans

Stage 1: Market assessment and gap analyses
Stage 2: Ideas for intervention strategies and metrics
Stage 3: Next level of detail for BPs; connection to EM&V
Stage 4: Near final business plan review

How to Get Involved

Visit www.caeecc.org

Contact Lara Ettenson (NRDC): Co-chair of the Coordinating Committee for more information: cochair@caeecc.org
**Terms**

- **Coordinating Committee (consistent members)**
  - Forum for high level policy discussions
  - Implementation of stakeholder process
- **Subcommittees (flexible members)**
  - Sectors identified in D.15-10-028 (p.47)
  - Substantive input at each stage of BP development
- **Comparison document (if needed filed with BP)**
  - Description of differences of ideas, filed with CPUC
  - Provides decision trail, information for CPUC

**CC Members**

<table>
<thead>
<tr>
<th>First</th>
<th>Last</th>
<th>Company/Organization</th>
</tr>
</thead>
<tbody>
<tr>
<td>Jenny</td>
<td>Berg</td>
<td>BayREN</td>
</tr>
<tr>
<td>Doug</td>
<td>Avery</td>
<td>CALTCP</td>
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<tr>
<td>Cal</td>
<td>Broomhead</td>
<td>CCSF/SFE/SFCCA</td>
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<tr>
<td>Martha</td>
<td>Brook</td>
<td>CEC</td>
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<tr>
<td>Hanna</td>
<td>Grene</td>
<td>CSE</td>
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<tr>
<td>Margie</td>
<td>Gardner</td>
<td>Efficiency Council</td>
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<td>Cody</td>
<td>Coeckelenbergh</td>
<td>Lincus</td>
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<tr>
<td>Demetra</td>
<td>McBride</td>
<td>LGSEC</td>
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<tr>
<td>Bernie</td>
<td>Kotlier</td>
<td>LMCC Energy/IBEW/NECA</td>
</tr>
<tr>
<td>Mike</td>
<td>Callahan-Dudley</td>
<td>MCE</td>
</tr>
<tr>
<td>Lara</td>
<td>Ettenson</td>
<td>NRDC</td>
</tr>
<tr>
<td>Mike</td>
<td>Campbell</td>
<td>ORA</td>
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<tr>
<td>Meghan</td>
<td>Dewey</td>
<td>PG&amp;E</td>
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<tr>
<td>Courtney</td>
<td>Kalashian</td>
<td>San Joaquin Valley Clean Energy Organization</td>
</tr>
<tr>
<td>Michelle</td>
<td>Thomas</td>
<td>SCE</td>
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<tr>
<td>Andrew</td>
<td>Steinberg</td>
<td>SCG</td>
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<td>Athena</td>
<td>Besa</td>
<td>SDG&amp;E</td>
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<tr>
<td>Dave</td>
<td>Dias</td>
<td>Sheet Metal Workers Local 104</td>
</tr>
<tr>
<td>Mike</td>
<td>Nguyen</td>
<td>SoCalRENE</td>
</tr>
<tr>
<td>Lena</td>
<td>Luna</td>
<td>South Bay Cities Council of Governments</td>
</tr>
</tbody>
</table>
Electric Vehicle Infrastructure Projects

- **State of California - Governor's goals:**
  - 1 million PEV by 2020
  - 1.5 million PEV by 2025

- San Diego has the highest number of EV per capita among California cities.
- Approximately 16,000+ plug-in and EV in the region
- 754 Level II
- 20 DC Fast Chargers
Current EV infrastructure
- Out of all 1,884 commercial Blink host locations nationwide, the City of San Diego charging stations ranks as follows YTD for 2015:
  - Balboa Park Palisades - 15th
  - Mission Bay Park Bonita - 40th
  - Mission Bay Park Playa - 63rd
  - San Diego Zoo - 92nd

Source: City of San Diego Balboa Park – Blink Changing Stations
- **Blink Network**
  - Balboa Park Palisades (7)
  - Mission Bay Park Bonita (4)
  - Mission Bay Park Playa (4)
  - San Diego Zoo (5)
  - Reuben H Fleet Science Center (3)
  - San Diego Central Library (9)

  [Image of Blink Charging Stations]

- **Freedom Stations**
  - 20 stations in San Diego County
    - DC Fast Charging & Level 2 stations
    - Ready “make-ready” site

  [Image of Freedom Stations]

- **CEC Grant**
  - 25 charging stations
  - Target current and future needs for electric charging infrastructure
  - Increase convenience to help accelerate consumer adoption of plug-in electric vehicles (PEV)

  [Image of EVgo Charging Stations]

**Economic Development**
- 25 charging stations and 36 charge points
  - Rancho Bernardo Rec. Center
  - Nobel Rec. Center and Library
  - Otay Mesa Coronado Library
  - Ocean Air Rec. Center (Completed)
  - Mission Bay Aquatic Center
  - Skyline Hill Rec. Center
  - Normal St & University Ave.
  - Ocean Beach Lifeguard parking lot
  - Hourglass Community Park

Siting and Installation Process
- Parks, Recreational Center & Libraries, Community Parks
  - Destination Points
- On-street
- ADA accessibility
  - Existing ADA space
    - Technical Policy 11B-1
- Proximity to SDG&E transformer
- Independent pedestal meter
- Community outreach
- **Enforcement**
  - Electric Vehicle Charging Station Zones
  - Only EVs are allowed to park in these zones
  - Time limit
    - Actively charging
    - Increase turnover

---

- **Land Development Code**
  - Transit-Oriented Development
    - EV charging infrastructure
    - Car Share parking Spaces
  - Bike Share
    - Benefits
      - Reduce parking requirements
      - Density bonus
  - SDG&E - Power Your Drive
    - Workplace charging
    - Multi Family Residential
    - Disadvantage communities
Solar to EV Project
- 10 solar canopies producing 90 kilowatts of electricity
- Five EV charging stations
- 100-kW energy storage system

Plug-in Electric Vehicle Chargers
- 4 PEV chargers
- 1 ADA PEV charger

Advanced Energy Storage System
- Offset vehicle charging
- Reduce peak demand
Alternative Transportation Hub Project

- Concept is to create a mobility hub that is in close proximity to existing transit centers; trolley and buses lines commuter rail, Amtrak stations
- Enhance interconnectivity between transit systems, ease of use and user convenience between mobility options

Collaborative Resources

- San Diego Regional Electric Vehicle Infrastructure (REVI)
- Refuel: San Diego Regional Alternative Fuel (REFUEL)
- Smart City San Diego
- San Diego Regional Clean Fuels Coalition
- San Diego Green Building Council
Questions
Connected to the Sun

Energizing California’s Communities with Renewables

Connected to the Sun

• Making renewable energy available to all
  – Connected to the Sun was approved by the CPUC in January 2015
  – Targeting 59 MW of new solar generation

• Program Benefits
  – Expands customer choices for renewable energy
  – Promotes new solar in San Diego
  – Helps our local economy
  – Supports the environment and Climate Action Plans

Connected to the Sun

SunRate

Share the Sun
SunRate®

- Gives customers the ability to buy renewable energy directly from SDG&E
  - Participants can choose to enroll from 50% to 100% of their electricity consumption
  - Applies on top of current rate schedule
- Solar facilities built for the program will be located in SDG&E’s service territory or the Imperial Valley
- Available late 2016

Share the Sun℠

- Community solar program that gives customers the ability to buy renewable energy directly from a participating solar developer
- New solar facilities will be located in SDG&E’s service territory
- Currently open for developer participation
Charges and Credits

SunRate Charges

<table>
<thead>
<tr>
<th>Customer Type</th>
<th>Residential</th>
<th>Sm Commercial</th>
<th>M/L Commercial</th>
<th>Agriculture</th>
<th>Streetlighting</th>
</tr>
</thead>
<tbody>
<tr>
<td>Current Rate*</td>
<td>$0.00428/kWh</td>
<td>$0.01501/kWh</td>
<td>$0.00541/kWh</td>
<td>$0.01763/kWh</td>
<td>$0.02493/kWh</td>
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<tr>
<td>Monthly Charge</td>
<td>$2.14</td>
<td>$7.50</td>
<td>$2.70</td>
<td>$8.82</td>
<td>$12.46</td>
</tr>
</tbody>
</table>

*Per Schedule GT as of 03/05/16. Subject to change annually as approved by the CPUC.

Share the Sun Credits

<table>
<thead>
<tr>
<th>Customer Type</th>
<th>Residential</th>
<th>Sm Commercial</th>
<th>M/L Commercial</th>
<th>Agriculture</th>
<th>Streetlighting</th>
</tr>
</thead>
<tbody>
<tr>
<td>Current Rate*</td>
<td>$0.09087/kWh</td>
<td>$0.08013/kWh</td>
<td>$0.08973/kWh</td>
<td>$0.07751/kWh</td>
<td>$0.07021/kWh</td>
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<tr>
<td>Monthly Credit</td>
<td>$45.43</td>
<td>$40.06</td>
<td>$44.86</td>
<td>$38.75</td>
<td>$35.10</td>
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</tbody>
</table>

*Per Schedule ECR as of 03/05/16. Subject to change annually as approved by the CPUC.

Participation Requirements

- Facilities with distributed generation rates are not eligible to participate
- Enrollment limits apply to individual customers
  - Limits include participation in both SunRate and Share the Sun

<table>
<thead>
<tr>
<th>Customer Type</th>
<th>Current Limit</th>
<th>Fixed?</th>
</tr>
</thead>
<tbody>
<tr>
<td>Federal, State, and Local Governments</td>
<td>4 MW</td>
<td>No – may increase over time</td>
</tr>
<tr>
<td>Public Colleges and Universities</td>
<td>4 MW</td>
<td>No – may increase over time</td>
</tr>
<tr>
<td>Everyone Else</td>
<td>2 MW</td>
<td>Yes</td>
</tr>
</tbody>
</table>
Thank you!

- www.sdge.com/CTTS
- ctts@sdge.com

Questions?
State Activities on Energy and Climate Change

Regional Energy Working Group

March 24, 2016

Overview

• 2016 Legislation
• State Activities:
  – GHG Reduction
  – Energy Efficiency
  – Renewable Energy
  – Zero Emission Vehicles (ZEVs) and Alternative Fuels
  – Climate Adaptation and Resiliency
Energy Storage

- AB 33 (Quirk)
  - CPUC: role of large scale energy storage in procuring diverse resources
  - Consider renewable integration and GHG reductions
- AB 2713 (Chiu)*
  - Expedited and streamlined permitting for energy storage
  - OPR: CA Energy Storage Permitting Guidebook
- SB 886 (Pavley)*
  - Benefits of energy storage in integrated resource plans
  - Tariffs to provide incentives for grid-connected storage

*Not included in Attachment 1

Zero Emission Vehicles and Alternative Fuels

- AB 1710 (Calderon)
  - Comprehensive program to advance light duty ZEVs
- AB 2673 (Harper)
  - Sales and use tax exemption for hydrogen fueling equipment
- SB 1338 (Lara)
  - Sales and use tax exemption for ZEV equipment at marine terminals
Other Energy/Climate Change

• SB 286 (Hertzberg)
  – Direct access 2\textsuperscript{nd} phase-in
  – 75 percent renewable, then 100 percent in 2020

• AB 2699 (Gonzalez)
  – Solar energy system disclosure document

• AB 2702 (Atkins)
  – Under 2 MOU

Regional and Statewide Collaborations
GHG Reduction

California Climate Strategy
An Integrated Plan for Addressing Climate Change

Vision
Reducing Greenhouse Gas Emissions to 40% Below 1990 Levels by 2030

Goals
- 60% renewable electricity
- 50% reduction in petroleum use in vehicles
- Carbon sequestration in the land base
- Reduce short-lived climate pollutants
- Double energy efficiency savings at existing buildings
- Safeguard California

Energy Efficiency

- California Energy Efficiency Coordinating Committee
- AB 802 (Williams, 2015) Implementation
  - Building energy use benchmarking and disclosure
Renewable Energy

• Net Energy Metering Successor Tariff
  – Decision 16-01-044 approved in January
  – Application for Rehearing filed in March
• Distribution Resources Plans
  – Scoping Memo and Ruling in January 2016
  – Integration Capacity Analysis, Locational Net Benefits Analysis, and pilot demonstration projects

ZEVs and Alternative Fuels

• ZEV Action Plan Update
• Sustainable Freight Action Plan
• Funding Plan: Low Carbon Transportation Investments and Air Quality Improvement Program
Climate Adaptation and Resiliency

Discussion

• Are there other bills or state activities that help to implement Regional Energy Strategy goals?
• Which topics are of interest for future EWG items?
State Activities on Energy and Climate Change

Regional Energy Working Group

March 24, 2016
California Energy Efficiency Coordinating Committee

Regional Energy Working Group
March 24, 2016

Energy Efficiency (EE) Proceeding at the CPUC

- Shift from 3-year program duration to 10-year “rolling portfolio” in Proceeding (R.13-11-005)
- Long-range intended to reduce “stop-starts” in programs and better support state energy and climate goals
- New! CPUC requires 5-Year EE Business Plans from Utilities, CCAs and RENs (a.k.a. Program Administrators)
Purpose/Goals of the EE Coordinating Committee

1. Facilitate open and transparent process
2. Support development of business plans
3. Seek efficiencies in formal and informal regulatory processes
4. Improve accessibility and involvement in EE program development
5. Increase consensus/reduce areas of conflict prior to filings
   - Committee members are the administrators of EE programs and active parties in the EE proceeding
   - All meetings and materials open to the public (www.caeecc.org)
6. Increase speed of CPUC review process

Business Plan Components and Coordinating Committee Review

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<th>Residential</th>
<th>Commercial</th>
<th>Industrial</th>
<th>Agriculture</th>
<th>Public</th>
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<th>Portfolio Summary</th>
<th>Metrics</th>
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</table>
Phase 1: Market assessment and gap analyses
Phase 2: Ideas for intervention strategies and metrics
Phase 3: Detailed outline of BP; connection to EM&V
Phase 4: Business Plan Review

Feb/Mar 2016
Apr/May 2016
May/Jun 2016
Jul/Aug 2016

All materials and EECC listserv at: www.caeecc.org

Questions?

California Energy Efficiency Coordinating Committee
Susan Freedman
Regional Energy Working Group
www.sandag.org/energy
March 24, 2016