MEETING NOTICE AND AGENDA

REGIONAL ENERGY WORKING GROUP

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

Thursday, July 23, 2015

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

Beginning in February, the parking garage elevators at Wells Fargo Plaza will undergo a six-month mechanical modernization. During this period, only one garage elevator will be in service. Please allow yourself extra time to make your way up from the garage to the SANDAG offices and Board Room. For those requiring special assistance, please call the SANDAG front desk in advance of any meetings at (619) 699-1900.

AGENDA HIGHLIGHTS

- CLEAN VEHICLE REBATE PROJECT
- IMPLEMENTATION OF THE REGIONAL PLUG-IN ELECTRIC VEHICLE READINESS PLAN
- GOVERNOR’S GREENHOUSE GAS REDUCTION GOALS

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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 www.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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## REGIONAL ENERGY WORKING GROUP

**Thursday, July 23, 2015**

<table>
<thead>
<tr>
<th>ITEM NO.</th>
<th>RECOMMENDATION</th>
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<tbody>
<tr>
<td>1.</td>
<td>WELCOME AND INTRODUCTIONS</td>
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<td>+2.</td>
<td>APPROVAL OF MEETING MINUTES</td>
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The Regional Energy Working Group (EWG) is asked to review and approve the minutes from its June 25, 2015, meeting.

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<th>3.</th>
<th>PUBLIC COMMENTS/MEMBER COMMENTS</th>
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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 working group members. Public speakers are limited to three minutes or less per person. EWG members also may provide information and announcements under this agenda item.

### REPORTS

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<th>4.</th>
<th>CLEAN VEHICLE REBATE PROJECT</th>
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The Clean Vehicle Rebate Project (CVRP) offers electric vehicle rebates for the purchase or lease of new, eligible, zero-emission, and plug-in hybrid light-duty vehicles. CVRP is administered by the Center for Sustainable Energy (CSE) on behalf of the Air Resources Board. Brett Williams of CSE will provide an update on CVRP and demonstrate a web tool to show how local jurisdictions and other stakeholders can utilize CVRP data for planning purposes. More information is available at: www.energycenter.org/cvrp.

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<tr>
<th>+5.</th>
<th>IMPLEMENTATION OF THE REGIONAL PLUG-IN ELECTRIC VEHICLE READINESS PLAN</th>
<th>DISCUSSION</th>
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SANDAG was awarded a grant from the California Energy Commission in partnership with the CSE to implement recommendations from the San Diego Regional Plug-in Electric Vehicle (PEV) Readiness Plan. This project supports PEV readiness through a combination of resource development, training, technical assistance, and outreach activities.

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<th>GOVERNOR’S GREENHOUSE GAS REDUCTION GOALS</th>
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Multiple state agencies have held forums this month to address ways to meet the 2030 greenhouse gas goals. Staff will provide an overview of each goal area: 50 percent reduction in petroleum, 50 percent renewable energy supplies, and reducing energy consumption from existing buildings by half. Fact sheets on each goal are attached.
7. **LEGISLATIVE STATUS REPORT**

Staff will provide an update on energy-related bills that have been of interest to the EWG. Members are asked to review the bills and share legislation that would support implementation of the Regional Energy Strategy.

8. **UPCOMING MEETINGS**

The August meeting of the EWG will be cancelled. The next meeting of the EWG is scheduled from 11:30 a.m. to 1 p.m on Thursday, September 24, 2015.
July 23, 2015

AGENDA ITEM NO.: 2

Action Requested: APPROVE

JUNE 25, 2015, MEETING MINUTES

1. WELCOME AND INTRODUCTIONS

Chair Chris Orlando (City of San Marcos), called the Regional Energy Working Group (EWG) to order at 11:35 a.m.

2. MAY 28, 2015, MEETING MINUTES (APPROVE)

Action: Amanda Rigby (City of Vista) motioned to approve the meeting minutes from May 28, 2015, and Dr. Don Mosier (City of Del Mar) seconded the motion. The motion carried without opposition.

Yes: Chair Orlando, Vice Chair Scott Anders (Energy Policy Initiatives Center [EPIC]), Dr. Mosier, Dave Weil (City of San Diego), Ms. Rigby, Dave Roberts (County of San Diego), Brett Caldwell (San Diego County Regional Airport Authority), Tom Brill (San Diego Gas and Electric [SDG&E]), Mike Evans (San Diego Regional Chamber of Commerce), Paul Webb (Sierra Club), William Torre (UC San Diego).

No: None. Abstain: Pamela Bensoussan (City of Chula Vista), Michelle White (Unified Port of San Diego). Absent: Center for Sustainable Energy (CSE), City of Santee, Cleantech San Diego, Environmental Health Coalition (EHC), Metropolitan Transit Systems, and North County Economic Development Corporation.

3. PUBLIC COMMENTS/MEMBER COMMENTS

John Wotzka (Public Attendee) discussed energy-related news and provided written comments that are summarized here: the Palo Verde Nuclear Generating Station located in Arizona supplies 50 percent of its power to California, New Mexico, and Texas; South Korea connected its Unit 2 nuclear power reactor to the grid in early 2015; Egypt is working with Russia to build a nuclear plant and desalination facility in 2015; over the past ten years, wind energy has reached 80 gigawatt (GW) in the United States; Europe has smaller scale wind farms positioned near customers to bypass long distance transmission and have little effect on the grid; Tesla has created 7 and 10 kilowatt hour solar batteries for daily use and as backup generation during blackouts; Swedish Vattenfall started power production in Germany in early 2015; companies won a contract to build a 1.2 GW power plant in Vietnam that will be on line by 2019; the proposed natural gas power plant in Carlsbad was put on hold by the California Public Utilities Commission (CPUC); 2015 is becoming the best year ever for wind and solar renewables, and the development of battery storage projects; and E85 is coming to more service stations in San Diego and South Carolina.
Chair Orlando spoke of a Climate Education Partners tour that he attended of the SDG&E Mission Control Facility. The tour emphasized the planning and preparation SDG&E is working on to approach climate change. He discussed what was shown on the tour, how SDG&E plans to adapt to climate change, and recommends that members attend a tour in the future.

Mr. Evans mentioned that with the change in weather around the region, wholesale prices of renewable energy rose to $180 dollars/megawatt hour. The region saw impacts on renewable policies that are associated with one type of renewable energy (solar), which resulted in volatile price differences.

Chair Orlando agreed and further explained that the energy use and demand curve has flipped because of renewable energy generation. It has changed from the past, and in the near future, consumers will be encouraged to use energy during the day and less in the evening.

Mr. Brill commented that the region is moving toward more renewable energy, and there are some days where there is excess generation. SDG&E will utilize demand response programs and ask consumers to participate in order to utilize the energy generated at appropriate times.

**REPORTS**

### 4. SOLAR REQUIREMENTS FOR LOCAL GOVERNMENTS: HOW TO COMPLY WITH ASSEMBLY BILL 2188 (INFORMATION)

Sabrina Bornstein (CSE) and Joe Kaatz (EPIC) presented an overview of Assembly Bill 2188 (Muratsuchi, 2013) (AB 2188), its requirements, and resources available. Ms. Bornstein introduced the SunShot program that is facilitated by the Department of Energy, which helps reduce solar soft costs and facilitate the solar market. She informed the EWG that the Governor’s Solar Permitting Task Force collaborated with various stakeholders to address the permitting barrier and created the California Solar Permitting Guidebook (Guidebook) in spring 2015; the Guidebook acts as a roadmap for jurisdictions to streamline solar permitting for small, residential rooftop solar. In fall 2014, AB 2188 was passed which mandates a standardized, streamlined, solar permitting process statewide for small rooftop solar systems. Cities have until September 30, 2015, to adopt an ordinance. The AB 2188 Implementation Guide, prepared by EPIC, provides guidance for implementing the bill in conformance with the Guidebook. She added that CSE offers free technical assistance for local jurisdictions and contractors, and there will be an AB 2188 Webinar on Tuesday, June 30, at 10 a.m. that participants can register for at [www.energycenter.org/events](http://www.energycenter.org/events).

Mr. Kaatz introduced AB 2188 requirements and compliance. He mentioned that AB 2188 is the first state mandate that codifies a permitting process at the local level. The bill seeks to standardize and unify solar permitting for solar photovoltaic (PV) systems up to 10 kW and solar water heating systems up to 30 kWth. Mr. Kaatz spoke of a mandated checklist for jurisdictions to adopt and publish. Changes were added to AB 2188 that adds requirements to solar water heating systems. He described the requirements for the submission process; how permits are reviewed, approved, and denied; and discussed compliance and enforcement. Mr. Kaatz added that if a city fails to comply, funding specific to solar energy can be withheld.
EWG members had the following questions and comments:

- Mr. Anders mentioned that AB 2188 states a streamlined permitting process must conform to the Governor's Guidebook; however, it is difficult to determine if a jurisdiction is in substantial conformance. Mr. Kaatz recommended that if jurisdictions have any questions about conformance standards that they reach out to their attorney.

- Dr. Mosier asked if AB 2188 requires that the ordinance be adopted by September 30, 2015, or introduced by that date. Mr. Kaatz responded that the ordinance be adopted by that date.

- Mr. Evans inquired if there is any work to coordinate the ordinances among cities in a region. Mr. Kaatz mentioned that some counties in the Bay Area are coordinating. He added that coordination between cities can be done and considered a Phase 2 to the Governor's Guidebook.

- Marissa Spata (CSE) added that the San Diego Chapter of the International Code Council (ICC) has discussed the ordinance requirements. The chief building inspector for the City of Carlsbad is heading the local ICC review of the model ordinance and drafting an ordinance that could be used by local jurisdictions in this region.

- Cesar Rios (energy consultant to the County of San Diego) asked if an energy efficiency assessment is included in the ordinance or if efficiency is only required under the California Solar Initiative (CSI) incentive. Mr. Kaatz answered that energy efficiency is not tied to the Solar Rights Act.

- Mr. Anders inquired if CSI still requires energy efficiency. Mr. Weil answered that if it is associated with rebates, energy efficiency is still required.

- Chair Orlando asked if there was a list of cities that are working on or have adopted ordinances, and if that could be shared with the group. CSE does track who has adopted the ordinance and can share the information with the EWG. It was stated that those who are already compliant need just adopt the ordinance.

5. SAN DIEGO GAS & ELECTRIC VEHICLE GRID INTEGRATION PILOT (INFORMATION)

Kevin O’Beirne (SDG&E) gave an update on the Electric Vehicle Grid Integration (EVGI) Pilot from SDG&E; the proposal is still before the CPUC and has yet to be approved. Governor Jerry Brown’s Zero Emission Vehicle (ZEV) Action Plan of 2013 calls for grid-integrated charging infrastructure to support 1 million ZEVs by 2020 and 1.5 million by 2025. Mr. O’Beirne mentioned that although the San Diego region is progressing in the adoption of electric vehicles (EVs) and charging stations with numbers reaching nearly 17,000 EVs and 900 public charging stations, the region is still not reaching the Governor’s Goals.

The SDG&E EVGI proposal looks to spur the adoption of EVs and to integrate them efficiently into the grid. The proposal focuses on installing privately owned charging stations in multi-family communities and work places. SDG&E proposes to establish up to 550 EVGI facilities with 10 chargers each over the next five years. Charging fees at these stations will be billed to the driver’s SDG&E bill. Mr. O’Beirne spoke of the EVGI settlement agreement filed with the CPUC in June, and mentioned that the CPUC decision on the SDG&E EVGI proposal is expected by the end of the year.
EWG members had the following questions and comments:

- Ms. Bensoussan asked how an employer or owner of a building will apply for this and how site selection would happen. Mr. O’Beirne explained that the program is customer demand driven and will be made widely available if CPUC approval occurs.

- Ms. Bensoussan inquired if there will be a fee associated with the application in order to be qualified. Mr. O’Beirne shared that the program would install charging stations for free. He added that the program’s advisory council will see if there will be an implemented fee to cover costs of the charging stations.

- Dr. Mosier commented on the modeling projections pertaining to EV adoption. He shared that future EVs will have range expansions and growth will take on a more logarithmic approach. Mr. O’Beirne agreed and anticipates changes to these projections as technologies improve.

- Mr. Rios inquired if the EVGI rate will include potentially capturing highway tax revenues that EVs do not pay into. Mr. O’Beirne does not believe it does at this time, but it is being looked at for EV owners.

- Ms. White asked if the anticipated rate structure will apply to heavy-duty and off-road vehicles as well. Mr. O’Beirne answered that it is mainly focused on personal vehicles for multi-unit dwellings and work places.

- Ms. White asked if the duck curve shown was for residential. Mr. O’Beirne explained that it depicted the total system including residential, commercial, and industrial.

6. LOCAL CLEAN ENERGY WORKFORCE DEVELOPMENT (DISCUSSION)

Robyn Wapner and Allison Wood (SANDAG) provided the EWG with an update on energy-related bills and cap-and-trade revenues. Ms. Wapner shared that the state legislature passed its Fiscal Year (FY) 2015-2016 budget; $1.2 billion in funding is for the 60 percent of cap-and-trade programs, and the remaining 40 percent will be appropriated later this year. She spoke of SANDAG projects under FY 2015-2016 that were awarded funding. The California Air Resources Board (ARB) has released its draft funding guidelines for all cap-and-trade auction proceed revenues. These help administering agencies know how to submit reporting requirements to the legislature. She informed the EWG that comments are due on June 29, 2015. Finally, the Department of Finance is currently working on a finance investment plan for the cap-and-trade program. This is a 3-year plan to help identify priorities for funding; a draft will come out this year and will be available for comment.

Ms. Wood highlighted energy-related bills that would be of interest to the EWG.

- Assembly Bill (AB) 802 (Williams, 2015), Public Utilities: Energy Efficiency Savings, is not included in the list of bills in the agenda; however, it refers to energy efficiency programs and has language to address energy savings and getting existing buildings to code. This bill will be heard at the July 7, 2015, Senate Energy, Utilities and Communication hearing.

- AB 21 (Perea, 2015), California Global Warming Solutions Act of 2006: Scoping Plan, no longer has language that sets additional emission limits for 2030; however, that language is still in Senate Bill (SB) 32 (Pavley, 2015).
• SB 32, Global Warming Solutions Act of 2006, was amended to include a 40 percent emissions reduction below 1990 levels by 2030 target.

• AB 1236 (Chiu, 2015), Local Ordinances: EV Charging Stations, which requires streamlining the permitting process for these charging stations. Ms. Wood mentioned that SANDAG received funding from the California Energy Commission (Energy Commission) to work with jurisdictions on EV permitting. The grant will start in July 2015.

Chair Orlando introduced and welcomed Commissioner Andrew McAllister from the Energy Commission who was visiting San Diego and stopped by for the end of the EWG meeting. Mr. McAllister shared that he was overseeing development of the AB 758 (Skinner, 2009) Draft Action Plan that addresses energy efficiency in existing buildings and includes a Local Government Challenge. Chair Orlando opened the room up for discussion with Commissioner McAllister.

The EWG had the following questions and comments:

• Mr. Anders asked about policies for benchmarking, data, and what the Energy Commission will be looking for in Local Government Challenge grants. Commissioner McAllister directed the EWG to look at the AB 758 Draft Action Plan, specifically at the Strategy and Goals portions of the document. He also mentioned that AB 1103 (Huffman, 2007, amended 2011) will allow for agencies to get better access to data. The Energy Commission is revising regulations, and will offer a workshop within the next two months to discuss data issues and will have a rulemaking on broader benchmarking issues next year.

• Mr. Anders inquired if there is an opportunity to have more city benchmarking. Commissioner McAllister believes that there is an opportunity to get better information to cities.

• Mr. Evans asked if there is a way to track programs to see how cities are achieving carbon goals. Commissioner McAllister spoke of an Energy Commission website that tracks progress. He shared that the Energy Commission is trying to regulate more public access to allow for tracking progress, and this will happen this administration.

7. UPCOMING MEETINGS (INFORMATION)

The next EWG meeting is scheduled from 11:30 a.m. to 1 p.m. on Thursday, July 23, 2015.

8. ADJOURNMENT

Chair Orlando adjourned the meeting at 1:03 p.m.
### June 25, 2015, REGIONAL ENERGY WORKING GROUP MEETING ATTENDANCE

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<tr>
<th>REPRESENTATION</th>
<th>JURISDICTION/ORGANIZATION</th>
<th>NAME</th>
<th>MEMBER/ALTERNATE</th>
<th>ATTENDING</th>
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<tr>
<td>North County Inland Subregion</td>
<td>City of San Marcos</td>
<td>Hon. Chris Orlando, Chair</td>
<td>Member</td>
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<td>City of Vista</td>
<td>Hon. Amanda Rigby</td>
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<td>Brendan Reed</td>
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IMPLEMENTATION OF THE REGIONAL
PLUG-IN ELECTRIC VEHICLE READINESS PLAN

File Number 3201000

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. The Readiness Plan, developed with input from the San Diego Regional Electric Vehicle Infrastructure Working Group (REVI), addresses a number of barriers to PEV adoption and offers recommendations and resources for local government staff to prepare their communities for a growing PEV market. Recently, SANDAG was awarded a grant from the California Energy Commission (CEC) in partnership with the Center for Sustainable Energy (CSE) to implement recommendations from the Readiness Plan through a combination of resource development, training, technical assistance, and outreach. Energy Working Group (EWG) members are asked to provide input on the activities that will take place through this grant.

Discussion

In September 2014, the CEC released a solicitation under the Alternative and Renewable Fuel and Vehicle Technology Program for projects that support new and existing planning efforts for PEVs and fuel cell electric vehicles. SANDAG applied for and was awarded a 2-year, $300,000 grant for activities that support PEV readiness in the San Diego region. In March 2015, the Board of Directors adopted a resolution (Attachment 1) to accept the funds, and the grant officially began on July 1, 2015. Over the next two years, SANDAG and CSE will work 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

Complementary Alternative Fuel Readiness Efforts

There are ongoing efforts in the region to advance the deployment of PEVs and alternative fuels. The PEV readiness activities will complement and leverage the existing efforts described below.
Refuel: San Diego Regional Alternative Fuel Coordinating Council

In 2014, SANDAG, in partnership with the San Diego Regional Clean Cities Coalition, received a 2-year grant from the CEC, in the amount of $300,000, to expand upon the PEV readiness planning efforts by preparing a readiness plan for all alternative fuels; including electricity, natural gas, propane, hydrogen, and biofuels. The regional alternative fuel readiness planning project kicked off in October 2014 with the formation of a regional alternative fuel coordinating council, called Refuel, comprised of local governments, regional agencies, and other stakeholders. Refuel holds quarterly public meetings to provide input on the readiness plan development as well as subcommittee meetings to discuss barriers, gaps, and needs of specific alternative fuels. Sector-specific toolkits on the various fuel types are currently under development. These toolkits are intended to be used as standalone resources and will be integrated into the Regional Alternative Fuel Readiness Plan.

San Diego Regional Clean Cities Coalition

The San Diego Regional Clean Cities Coalition (Clean Cities Coalition) is a Department of Energy supported organization that brings together stakeholders in the public and private sectors to increase the use of alternative fuel and alternative fuel vehicles in the region. Through planning, education, and outreach, the Clean Cities Coalition promotes local actions to reduce petroleum use in transportation, including alternative and renewable fuels, idle-reduction measures, fuel economy improvements, and emerging transportation technologies. The Clean Cities Coalition helps to encourage the deployment of infrastructure for alternative fuels including ethanol, natural gas, propane, hydrogen, biodiesel, and electricity. The program is coordinated by CSE and includes a number of public agency and private sector partners.

Advanced Transportation Center of Southern California

The Advanced Transportation Center of Southern California (Center) was designated by the CEC to serve as an advanced transportation industry resource for the greater Southern California region. There are three physical locations for the Center in Los Angeles, San Bernardino, and San Diego; CSE’s headquarters serves as the San Diego location. The Center offers support for collaboration on grant opportunities by public and private organizations, hosting advanced transportation events and meetings, creating workforce programs, and answering questions related to advanced transportation technology, fuel availability, and market development.

Next Steps

SANDAG and CSE will be utilizing existing forums and working closely with local jurisdiction staff to implement the PEV readiness activities. Staff will continue to provide updates and seek input from the EWG at key milestones.

Attachment: 1. Board of Directors Resolution No. 2015-18

Key Staff Contact: Allison Wood, (619) 699-1973, allison.wood@sandag.org
RESOLUTION NO. 2015-18

RESOLUTION OF THE SAN DIEGO ASSOCIATION OF GOVERNMENTS
APPROVING THE ACCEPTANCE OF GRANT AWARD ARV-14-036 FROM THE
CALIFORNIA ENERGY COMMISSION TO IMPLEMENT THE
SAN DIEGO REGIONAL PLUG-IN ELECTRIC VEHICLE READINESS PLAN

WHEREAS, the San Diego region is home to over 10,000 plug-in electric vehicles (PEVs) and over 500 public PEV charging stations; and

WHEREAS, implementation actions included in the 2050 Regional Transportation Plan and its Sustainable Communities Strategy recommend that SANDAG support the increased use of clean, alternative fuels in vehicle fleets owned by SANDAG and by local jurisdictions (Action 20), support planning and infrastructure development for all alternative fueling stations and PEV chargers (Action 21), and develop or facilitate a regional approach to long-term planning for alternative fuel infrastructure that includes the continued development of public-private strategic alliances (Action 22); and

WHEREAS, SANDAG established the San Diego Regional Electric Vehicle Infrastructure Working Group in 2012 to facilitate strategic and coordinated efforts to address barriers to widespread PEV adoption and to develop a regional readiness plan; and

WHEREAS, the SANDAG Board of Directors accepted the San Diego Regional Plug-in Electric Vehicle Readiness Plan as a regional guide for use by local governments, public agencies, and others to support PEV adoption and electric vehicle charging station deployment throughout the region during its meeting on January 24, 2014; and

WHEREAS, the California Energy Commission (CEC) issued a first come, first served grant solicitation on September 9, 2014, under the Alternative and Renewable Fuel and Vehicle Technology Program for projects that support new and existing planning efforts for PEVs; and

WHEREAS, SANDAG applied for this grant in partnership with the Center for Sustainable Energy to implement the San Diego Regional Plug-in Electric Vehicle Readiness Plan by providing additional resources, training, and technical assistance to local governments, public agencies, and others on permitting, installation, and siting of electric vehicle charging stations and supporting outreach activities that increase awareness of PEVs; and

WHEREAS, SANDAG submitted its application to the CEC with letters of support from the cities of Carlsbad, Chula Vista, and San Diego; the San Diego County Air Pollution Control District; Unified Port District of San Diego; and San Diego Regional Clean Cities Coalition; and

WHEREAS, the CEC approved this project, led by SANDAG, with its partner the Center for Sustainable Energy, at its Business Meeting on February 25, 2015; and

WHEREAS, the CEC requires that public agencies provide an authorizing resolution approved by their governing authority to enter into an Agreement with the CEC; and

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WHEREAS, SANDAG is to be awarded $300,000 by the CEC to complete the proposed project over 24 months, beginning in mid-2015;

NOW THEREFORE BE IT RESOLVED that the Board of Directors:

1. Approves the acceptance of Grant Award ARV-14-036 from the CEC to implement the San Diego Regional Plug-in Electric Vehicle Readiness Plan; and

2. Authorizes the Executive Director, or designee, to enter into an Agreement with the CEC, to accept and administrate the CEC funds of up to $300,000 in the SANDAG FY 2016 Program Budget and OWP and subsequent budgets and OWPs to complete the proposed project.

3. Supports the implementation of the San Diego Regional Plug-in Electric Vehicle Readiness Plan and further deployment of PEVs and infrastructure through a combination of resource development, training, technical assistance, and outreach.

PASSED AND ADOPTED this 27th day of March, 2015.

CHAIRPERSON

ATTEST: GOODY E. BELODOY
SECRETARY

MEMBER AGENCIES: Cities of Carlsbad, Chula Vista, Coronado, Del Mar, El Cajon, Encinitas, Escondido, Imperial Beach, La Mesa, Lemon Grove, National City, Oceanside, Poway, San Diego, San Marcos, Santee, Solana Beach, Vista, and County of San Diego.

ADVISORY MEMBERS: California Department of Transportation, Metropolitan Transit System, North County Transit District, Imperial County, U.S. Department of Defense, San Diego Unified Port District, San Diego County Water Authority, Southern California Tribal Chairman’s Association, and Mexico.
GOVERNOR’S GREENHOUSE GAS REDUCTION GOALS

Introduction

Multiple state agencies have held forums this month to address ways to meet the 2030 greenhouse gas goals. Staff will provide an overview of each goal area: 50 percent reduction in petroleum, 50 percent renewable energy supplies, and reducing energy consumption from existing buildings by half. Fact sheets on each goal are attached.

Attachment: 1. California’s 2030 Climate Commitment – Renewable Resources for Half of the State’s Electricity by 2030
2. California’s 2030 Climate Commitment – Double Energy Savings in Existing Buildings and Develop Cleaner Heating Fuels by 2030
3. California’s 2030 Climate Commitment – Cutting Petroleum Use in Half by 2030

Key Staff Contact: Susan Freedman, (619) 699-7387, susan.freedman@sandag.org
To meet our climate change goals, we must derive 50 percent of the state’s electricity from renewable resources by 2030. We are already well on our way as the state currently uses renewable resources for about 25 percent of its electricity use and is on a trajectory to use 33 percent by 2020. California is a leader in reducing greenhouse gases from electricity generation while maintaining an affordable and reliable electricity system.

**Benefits from Renewables for Half of Electricity Use by 2030**

Renewables have created thousands of jobs, reduced harmful air pollutants, lowered carbon pollution, and led to greater diversity and resilience in our energy supply.

**Meet Climate Change Goals and Health Standards**

- Increasing renewable resources to 50 percent of the state’s electricity consumption by 2030 sets California on path to meet its 2050 climate change goals
- Using renewable resources could help reduce emissions from the transportation sector as increasing numbers of Californians drive electric vehicles, as well as from electricity use in the residential, commercial, and industrial sectors

**How We Get There**

**Already on Our Way**

- Existing policies will increase renewable-based electricity use to 33 percent by 2020
- California has more than doubled renewable capacity installed in the last four years (adding over 11,000 megawatts) and has more than 21,000 megawatts online, which includes 2,300 megawatts on 245,000 homes, businesses, and schools.
- The graph shows renewable energy procured for California from 1983–2013 by resource type and the steep increase in recent years.
- Another 11,400 MW of renewable energy projects in California have received environmental permits for development
- Recent costs for renewables – even without subsidies – are approaching levels competitive with new natural gas plants
- California has achieved this level of renewable development and maintained the reliability of the electricity grid by developing the capability to integrate the current levels of weather-dependent generation (wind and solar). Moving to 50 percent renewable energy could make balancing electricity demand and generation increasingly challenging at some times during the day and year. Therefore, additional tools will be needed to maintain reliability including: charging zero emission vehicles at times of high renewable production, balancing supply and demand over broad geographic areas by multistate agreements (such as the Energy Imbalance Market), increasing flexibility in the generating fleet, deploying emerging storage technologies and programs that reward customers for shifting demand, and building a smarter grid.

**Build on California’s Climate Change Framework**

A 50 percent renewables target can be reached in several ways, including:

- A new utility procurement requirement that focuses on optimizing clean energy technologies, efficiency, and demand management programs according to costs and system benefits.
- A new procurement requirement to increase renewables beyond 33 percent, including allowing for rooftop solar and better coordination with Western states and Baja California to maximize renewable energy production and better balance production with demand.
- A clean energy standard requiring reductions in greenhouse gas emissions of electricity sold in California based upon the loading order.

**California Renewable Energy Generation by Resource Type (In-State and Out-of-State)**
To achieve our climate change goals over the next 15 years, we must double the planned level of savings from energy efficiency improvements in existing buildings, and develop cleaner heating fuels. Current policies and actions have improved energy service reliability and saved Californians money on their energy bills. Building on and expanding these efforts, we can meet carbon targets, maintain energy service affordability, upgrade our homes and businesses, and transition to cleaner heating fuels.

**BENEFITS**

**Energy Cost Reductions and Improved Comfort**

» Efficient buildings are affordable to operate, quiet, comfortable, safe, highly functional, and more valuable.

**Meet Air Quality and Climate Change Goals**

» Reducing energy use helps minimize the need to generate electricity from fossil fuel-fired power plants, avoiding associated air pollution and greenhouse gas emissions.

» Cleaner heating fuels such as low-carbon gases and electricity from renewable resources can reduce local air pollution.

**Enhance Energy Service Reliability**

» Energy efficiency strengthens reliability by diversifying the mix of resources to meet our energy needs.

» Energy efficiency reduces the burden on the electric system, improving its operations and flexibility.

**HOW WE GET THERE**

**Already on Our Way**

» Building and Appliance Energy Efficiency Standards, put in place over the last four decades, are saving Californians billions of dollars every year in avoided energy costs.

» California ratepayers have invested consistently in energy efficiency programs. These programs provided over $2 billion in net benefits over the past 9 years.

» California’s energy efficiency research and development investments are fostering new technologies and ideas to further improve energy performance of existing buildings and advance cleaner heating technologies.

**Building on California’s Climate Change & Energy Policy Framework**

» **Government Leadership.** Achieve dramatically greater performance levels in publicly-owned buildings; push rigorous code compliance; streamline permitting systems and use data to drive community energy planning.

» **Simpler Access to Useful Information.** Knowledge drives modern markets. Building benchmarking and other energy assessments provide targeted knowledge to enable and motivate efficiency improvements. Straightforward access to relevant data is needed to target the best opportunities.

» **Innovative Business Solutions.** Enable widespread delivery of dependable savings from routine upgrade projects.

» **Financing.** Pervasive access to affordable, innovative financing that matches payments to savings timeframes.

» **Utility Procurement.** Treat efficiency as a clean distributed energy resource for which utilities contract in a fashion analogous to large-scale generation.

» **Technical Innovation.** Increased development and commercialization of promising technologies and practices for lighting, cooling, space and water heating, and plug-loads.

» **Workforce Training.** Bolster the workforce through training in energy efficiency assessment, installation and sales.

**Doubling the 2014–2030 Energy Savings Trajectory**

**Savings in MMBtu**

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**Accelerated Deployment and New Efforts**

**Savings Under Development**
CALIFORNIA’S 2030 CLIMATE COMMITMENTS

Cutting Petroleum Use in Half by 2030

In order to meet federal health-based air quality standards and our climate change goals, we must cut in half the amount of petroleum we use in our cars and trucks over the next 15 years. We are already on our way, and building on current policies and trends that are providing Californians with more mobility options, more efficient vehicles, and a diverse set of cleaner fuels – we can meet this target, strengthen and grow our economy, and improve public health in our communities.

Benefits from Cutting Petroleum Use in Half by 2030

Less Pollution
- In California, the production, refining, and use of petroleum accounts for almost half of greenhouse gas emissions, 80 percent of smog-forming pollution, and over 95 percent of cancer-causing diesel particulate matter

Stronger Economy
- Oil dependence costs the U.S. an estimated $300-500 billion annually ($33-55 billion in California)
- Reducing energy use and improving vehicle efficiency cuts costs and improves economic productivity and competitiveness
- A diverse mix of domestic and local fuel supplies stabilizes energy prices, improves economic resilience, and creates new investments, businesses, and jobs

Meet Health Standards and Climate Change Goals
- Studies show 45-55% petroleum reduction in 2030 sets California on path to meet its 2050 climate change goals
- Meeting federal health-based air quality standards likely requires additional petroleum reductions

How we get there

Already on Our Way
- Existing policies will reduce petroleum use in cars and trucks by more than 20% in 2030
- Planned activities over next two years can achieve significant additional petroleum reductions

Build on California’s Climate Change and Air Quality Framework
- Building on existing efforts, California can cut petroleum use from cars and trucks in half by 2030:
  - Build high-speed rail and continue supporting community planning to reduce vehicle miles travelled
  - Continue current levels of light-duty and heavy-duty vehicle efficiency improvements
  - Strengthen the Low Carbon Fuel Standard to continue reducing fuel carbon intensity
  - Continue providing strong market support for zero emission vehicles and renewable fuel production through carbon pricing and other incentives

Sample path to 50% petroleum reduction in 2030

An approach to 50 percent petroleum reduction could include: Reducing growth in vehicle-miles travelled to 4%; increasing on-road fuel efficiency of cars to 35 mpg and heavy-duty trucks to about 7 mpg; and at least doubling use of alternative fuels like biofuels, electricity, hydrogen, and renewable natural gas. (ARB analysis) See graph at right.
LEGISLATIVE STATUS REPORT

Introduction

Monthly status reports on energy-related legislative activities are provided to the Regional Energy Working Group (EWG). Attachment 1 provides an outline of energy-related legislation that SANDAG is monitoring. Updates on the State cap-and-trade investment plan are provided below.

Discussion

The Air Resources Board (ARB) released dates for a series of workshops to seek input on a draft concept paper (Paper) for the second Cap-and-Trade Auction Proceeds Triennial Investment Plan (Second Investment Plan). The Second Investment Plan will cover FY 2016-2017 through 2018-2019. The Paper is intended to present preliminary high-level ideas and draft funding priorities for the investment of greenhouse gas reduction funds. It will be released by July 24, 2015, and posted at: www.arb.ca.gov/investmentplan.

The series of public workshops will run from August 3-14, 2015, at seven locations across the State. At each location, representatives from the Governor’s Administration will provide an overview of its investment priorities and will hear public suggestions. The Sacramento and San Diego dates are August 3, 2015 (in the afternoon with accompanying webcast), and August 13, 2015 (in the evening), respectively. Specific times and locations are scheduled to be posted on the ARB website on July 20, 2015, at: www.arb.ca.gov/auctionproceeds.

Written comments on the Paper are scheduled to be due September 1, 2015. Public feedback received at the August workshops and in writing will inform the preparation of the Second Investment Plan. A second series of workshops and a public hearing will follow in fall 2015. The Final Second Investment Plan will be due from the Department of Finance to the Legislature in January 2016.


Key Staff Contact: Robyn Wapner, (619) 699-1994, robyn.wapner@sandag.org
### AB 21: Global Warming Solutions Act of 2006: Emissions Limit
Requires the State Air Resources Board in preparing its scoping plan for achieving the maximum technologically feasible and cost-effective reductions in greenhouse gas reduction, to consult with specified State agencies regarding matters involving energy efficiency and the facilitation of the electrification of the transportation sector.
**Author:** Perea (D) **Status:** 06/30/2015 In SENATE. Read second time. To third reading.

### AB 197: Public Utilities: Renewable Resources
Requires the Public Utilities Commission, in adopting a process that provides criteria for the rank ordering and selection of eligible renewable energy resources by electrical corporations, to consider any statewide greenhouse gas emissions limit established pursuant to a specified Act and consideration of capacity and essential reliability services of the eligible renewable energy resource to ensure grid reliability. Relates to entering new resource contracts and constructing facilities within costs.
**Author:** Garcia E (D) **Status:** 07/13/2015 In SENATE Committee on APPROPRIATIONS: To Suspense File.

Amends an existing law which authorizes a public agency to issue revenue bonds that are secured by a voluntary contractual assessment agreed to between the public agency and a property owner to finance the installation of distributed generation renewable energy sources or energy or water efficiency improvements that are permanently affixed on the owner’s real property. Authorizes the use of the moneys in the Greenhouse Gas Reduction Fund to provide funding for the implementation of the PACE Reserve Program.
**Author:** McCarty (D) **Status:** 05/14/2015 To SENATE Committees on ENVIRONMENTAL QUALITY and APPROPRIATIONS.

### AB 645: California Renewables Portfolio Standard
Expresses the intent of the Legislature for the purposes of the Renewables Portfolio Standard program that the amount of electricity generated per year from eligible renewable energy resources be increased to an amount equal to at least 50% by a specified date. Requires the Public Utilities Commission to establish the quantity of electricity products from eligible renewable energy resources to be procured by each retail seller for specified periods.
**Author:** Williams (D) **Status:** 07/07/2015 From SENATE Committee on ENERGY, UTILITIES AND COMMUNICATIONS: Do pass to Committee on APPROPRIATIONS. (8-3)

### AB 793: Energy Efficiency
Requires weatherization to include home energy management technology, determined by the Public Utilities Commission to be feasible, taking into consideration in described factors. Requires the Commission to require each electrical corporation to develop and implement a plan to education its residential and small business customers whose homes and businesses are equipped with an advanced meter about how they can use data to control electricity use. Requires a rebate program for energy management technology.
**Author:** Quirk (D) **Status:** 07/07/2015 In SENATE. Read second time and amended. Re-referred to Committee on APPROPRIATIONS.
### AB 802: Public Utilities: Energy Efficiency Savings
Requires the Public Utilities Commission to authorize electrical and gas corporations to recover in rates the reasonable costs of providing incentives, rebates, technical assistance, and support to their customers to increase the energy efficiency of existing buildings, and to authorize such corporations to count all energy savings achieved toward overall goals or targets. Authorizes adjusting goals and targets of such corporations to reflect energy savings achieved in meeting savings in such buildings.

**Author:** Williams (D)  
**Status:** 07/13/2015 From SENATE Committee on ENERGY, UTILITIES AND COMMUNICATIONS: Do pass to Committee on APPROPRIATIONS. (9-0)

### AB 865: Energy and Resources Conservation: Grants and Loans
Requires the State Energy Resources Conservation and Development Commission to require that each recipient of a grant or loan to submit a verifiable plan for increasing the procurement from women, minority, disabled veteran, and LGBT business enterprises, including renewable energy, advanced technologies, and demonstration projects, and to furnish an annual report. Requires the establishment of a related task force regarding recommendations about diversity in the energy industry.

**Author:** Alejo (D)  
**Status:** 07/14/15 From committee: Do pass and re-refer to Committee on APPROPRIATIONS. (Ayes 9. Noes 2.) (July 13). Re-referred to Committee on APPROPRIATIONS.

### AB 1176: Vehicular Air Pollution
Establishes the Advanced Low-Carbon Diesel Fuels Access program for the purpose of reducing greenhouse gas emissions of diesel motor vehicles by providing capital assistance for projects that expand advanced low-carbon diesel fueling infrastructure in communities that are disproportionately impacted by environmental hazards and additionally where the greatest air quality impacts can be identified. Provides requirements for funding of the program.

**Author:** Perea (D)  
**Status:** 07/15/2015 From SENATE Committee on ENVIRONMENTAL QUALITY: Do pass as amended to Committee on APPROPRIATIONS. (7-0)

### AB 1236: Local Ordinances: Electric Vehicle Charging Stations
Relates to the Electric Vehicle Charging Stations Open Access Act. Requires a city or county to approve the installation of electric vehicle charging stations through the issuance of specified permits unless the proposed installation would have an adverse impact upon the public health or safety. Provides appeal of that decision. Creates an expedited and streamlined permitting process for electric vehicle charging stations.

**Author:** Chiu (D)  
**Status:** 07/09/2015 In SENATE. Read second time and amended. Re-referred to Committee on APPROPRIATIONS.
### AB 1288: Global Warming Solutions Act of 2006: Regulations
Authors: Atkins (D) Status: 07/15/2015 From SENATE Committee on ENVIRONMENTAL QUALITY: Do pass to Committee on APPROPRIATIONS.

Authorizes the State Air Resources Board to include the use of market-based compliance mechanisms and to adopt a regulation that establishes a system of market-based declining annual aggregate emissions limits for sources or categories of sources that emit greenhouse gases, applicable from January 1, 2012, to December 31, 2020, inclusive, as specified.

### AB 1330: Energy Efficiency Resource Standard Act
Author: Bloom (D) Status: 07/13/2015 From SENATE Committee on ENERGY, UTILITIES AND COMMUNICATIONS: Do pass as amended to Committee on APPROPRIATIONS. (7-3)

Enacts the Energy Efficiency Resource Standard Act. Requires The Public Utilities Commission, in consultation with the State Energy Resources Conservation and Development Commission, to be responsible for supervising the implementation of the act by electrical corporations and gas corporations.

### AB 1448: Solar Energy Systems: Real Property Restrictions
Author: Lopez (D) Status: 07/15/2015 In SENATE. Read second time and amended. To third reading.

Prohibits rental instruments or rental agreements or leases from effectively prohibiting or restricting the installation or use of a solar energy system, including a clothesline.

### AB 1453: Electrical Transmission: Certificates
Author: Rendon (D) Status: 06/11/2015 To SENATE Committee on ENERGY, UTILITIES AND COMMUNICATIONS.

Amends an existing law which requires the Public Utilities Commission to issue a decision on an application for a certificate of public convenience and necessity within a certain time period if the application is for a certificate for building or upgrading certain electrical transmission lines. Requires commission to consider availability of alternatives to transmission, such as energy efficiency.

### AB 1482: Strategic Growth Council: Duties
Author: Gordon (D) Status: 07/09/2015 In SENATE. Read second time and amended. Re-referred to Committee on APPROPRIATIONS.

Expands the duties of the Strategic Growth Council to include overseeing and coordinating state agency actions to adapt to climate change and identifying and pursuing opportunities for state agencies to collaborate with federal or local agencies in their climate adaptation efforts.
### SB 32: Global Warning Solutions Act of 2006: Emissions Limit
Requires the State Air Resources Board to approve a specified statewide greenhouse gas emission limit that is equivalent to a specified percentage below the 1990 level to be achieved by 2050. Authorizes the Board to adopt interim emissions level targets to be achieved by specified years.

**Author:** Pavley (D)  
**Status:** 07/13/2015 From ASSEMBLY Committee on NATURAL RESOURCES: Do pass to Committee on APPROPRIATIONS.

### SB 185: Public Retirement Systems: Divestiture of Thermal Coal
Prohibits the boards of the Public Employees' Retirement System and the State Teachers' Retirement System from making new investments or renewing existing investments of funds in a thermal coal company. Requires the boards to liquidate investments and to engage with such companies to ascertain if they are transitioning to clean energy generation business models. Requires the boards to make a comprehensive assessment on divesting in natural gas and petroleum investments.

**Author:** De Leon (D)  
**Status:** 07/15/2015 In ASSEMBLY Committee on APPROPRIATIONS: To Suspense File.

### SB 189: Clean Energy and Low-Carbon Economic and Jobs
Creates the Clean Energy and Low-Carbon Economic and Jobs Growth Blue Ribbon Committee. Advises state agencies on the most effective ways to expend clean energy and greenhouse gas related funds and implement policies to maximize the state's economic and employment benefits. Requires each state agency responsible for implementing clean energy and low-carbon policies and programs to submit a progress report describing how it implemented or responded to advice, guidance, and recommendations of the committee.

**Author:** Hueso (D)  
**Status:** 07/13/2015 From ASSEMBLY Committee on NATURAL RESOURCES: Do pass as amended to Committee on APPROPRIATIONS. (6-1)

### SB 246: Climate Action Team
Creates the Climate Action Team that would be responsible for coordinating the state's climate policy to achieve the state's climate change goals, identifying specified unavoidable climate change impacts, developing and implementing specified mitigation and adaptation plans, and identifying and disseminating information to local governments and regional bodies.

**Author:** Wieckowski (D)  
**Status:** 07/13/2015 From ASSEMBLY Committee on NATURAL RESOURCES: Do pass to Committee on APPROPRIATIONS. (8-1)

### SB 286: Electricity: Direct Transactions
Requires the Public Utilities Commission to adopt and implement a schedule that implements a 2nd phase-in period for expanding direct transactions over a 3-year period so that by the end of the 3-year period all nonresidential end-use customers may acquire electric service from other providers in each electrical corporation’s distribution service territory.

**Author:** Hertzberg (D)  
**Status:** 07/13/2015 From ASSEMBLY Committee on UTILITIES AND COMMERCE: Do pass as amended to Committee on APPROPRIATIONS. (10-1)
### SB 350: Clean Energy and Pollution Reduction Act of 2015
Establishes the quantity of electricity products from eligible renewable energy resources be procured by each retail seller for specified periods. Requires the boards of local publicly owned electric utilities to ensure that specified quantities of such products be procured to achieve a specified percentage by a specified date. Excludes combustion from municipal waste as eligible renewable energy sources. Requires submission of renewable energy procurement plans. Relates to reducing motor vehicle emissions.
**Author:** De Leon (D)  **Status:** 07/13/2015 From ASSEMBLY Committee on NATURAL RESOURCES: Do pass as amended to Committee on APPROPRIATIONS. (6-2)

### SB 398: Green Assistance Program
Establishes the Green Assistance Program, to be administered by the Secretary for Environmental Protection, that, among other things, would provide technical assistance to small businesses and small cities in applying for an allocation of moneys from the Greenhouse Gas Reduction Fund and would provide assistance to small businesses and small cities in complying with all applicable state, federal, and local air quality laws.
**Author:** Leyva (D)  **Status:** 07/14/15 From committee: Do pass and re-refer to Committee on APPROPRIATIONS with recommendation: To consent calendar. (Ayes 9. Noes 0.) (July 13). Re-referred to Committee on APPROPRIATIONS.

### SB 471: Water, Energy, Reduction of Greenhouse Gas
Requires the development of an emissions inventory of greenhouse gas emissions from the water system in the State. Requires the Strategic Growth Council to give special consideration to awarding funds to eligible projects that, in addition to existing objectives and goals, would also result in reduced energy use by a water supplier, and end user of water, or both. Includes projects or programs that reduce energy used to acquire, transport, treat, or distribute water as a regional project or program.
**Author:** Pavley (D)  **Status:** 07/07/15 From committee with author's amendments. Read second time and amended. Re-referred to Committee on NATURAL RESOURCES.