



AD HOC COMMITTEE ON SUSTAINABILITY

March 26, 2018

12:30 P.M.

651 Pine Street, Room 101, Martinez

Supervisor John Gioia, Chair

Supervisor Federal D. Glover, Vice Chair

Agenda Items:

Items may be taken out of order based on the business of the day and preference of the Committee

1. Introductions
2. Public comment on any item under the jurisdiction of the Committee and not on this agenda (speakers may be limited to three minutes).
3. APPROVE Record of Action for meeting for January 22, 2018, meeting of the Ad Hoc Committee on Sustainability.
4. RECEIVE PRESENTATION regarding the Idle Free Pledge and REFER the item to the Board of Supervisors for further consideration.
5. PROVIDE DIRECTION to staff regarding development of a Distributed Energy Resource Plan for County facilities.
6. DIRECT staff, facilitated by the Sustainability Coordinator, to identify the elements of an action plan for a Countywide education and outreach campaign on the Climate Action Plan, and resources needed to successfully implement such a plan.
7. RECEIVE report from the Contra Costa County Sustainability Commission Chair.
8. RECEIVE update from the County's Sustainability Coordinator.
9. The next meeting is currently scheduled for Monday, May 7, 2018, at 12:30 p.m.
10. Adjourn

The Ad Hoc Committee on Sustainability will provide reasonable accommodations for persons with disabilities planning to attend these meetings; please contact staff listed below at least 72 hours before the meeting.

Any disclosable public records related to an open session item on a regular meeting agenda and distributed by the County to a majority of members of the Ad Hoc Committee on Sustainability less than 96 hours prior to that meeting are available for public inspection at 651 Pine Street, 1st floor, during normal business hours.

Public comment may be submitted via electronic mail on agenda items at least one full work day prior to the published meeting time.

Glossary of Acronyms, Abbreviations, and other Terms (in alphabetical order): Contra Costa County has a policy of making limited use of acronyms, abbreviations, and industry-specific language in meetings of its Board of Supervisors and Committees. Following is a list of commonly used abbreviations that may appear in presentations and written materials at meetings of the Ad Hoc Sustainability Committee:

AB Assembly Bill

ABAG Association of Bay Area Governments

ACA Assembly Constitutional Amendment

ADA Americans with Disabilities Act of 1990

BAAQMD Bay Area Air Quality Management District

BART Bay Area Rapid Transit District

BAYREN Bay Area Regional Energy Network

BCDC Bay Conservation & Development Commission

BDCP Bay-Delta Conservation Plan

BGO Better Government Ordinance (Contra Costa County)

BOS Board of Supervisors

CALTRANS California Department of Transportation

CARB California Air Resources Board

CAO County Administrative Officer or Office

CAP Climate Action Plan

CCA Community Choice

CCTA Contra Costa Transportation Authority

CCWD Contra Costa Water District

CDBG Community Development Block Grant

CEC California Energy Commission

CEQA California Environmental Quality Act

CPUC California Public Utilities Commission

CSA County Service Area

CSAC California State Association of Counties

DCD Contra Costa County Dept. of Conservation & Development

EBEW East Bay Energy Watch

EBMUD East Bay Municipal Utility District

EIR Environmental Impact Report (a state requirement)

EIS Environmental Impact Statement (a federal requirement)

FEMA Federal Emergency Management Agency

FTE Full Time Equivalent

FY Fiscal Year
GGRF Greenhouse Gas Reduction Funds
GHG Greenhouse Gas
GIS Geographic Information System
HOT High-Occupancy/Toll
HOV High-Occupancy-Vehicle
HSD Contra Costa County Health Services Department
IPM Integrated Pest Management
JPA/JEPA Joint (Exercise of) Powers Authority or Agreement
LAFCo Local Agency Formation Commission
LCC League of California Cities
LTMS Long-Term Management Strategy
MAC Municipal Advisory Council
MBE Minority Business Enterprise
MOA Memorandum of Agreement
MOE Maintenance of Effort
MOU Memorandum of Understanding
MTC Metropolitan Transportation Commission
NACo National Association of Counties
NEPA National Environmental Protection Act
PDA Priority Development Area
PV Photovoltaic
PWD Contra Costa County Public Works Department
RDA Redevelopment Agency or Area
RFI Request For Information
RFP Request For Proposals
RFQ Request For Qualifications
SB Senate Bill
SBE Small Business Enterprise
SGC Strategic Growth Council
TWIC Transportation, Water, and Infrastructure Committee
U.S. EPA United States Environmental Protection Agency
VMT Vehicle Miles Travel
WBE Women-Owned Business Enterprise

For Additional Information Contact: Jody London, Sustainability Coordinator, Phone: (925) 674-7871 Jody.London@dcd.cccounty.us



Contra Costa County Board of Supervisors

Subcommittee Report

AD HOC COMMITTEE ON SUSTAINABILITY

3.

Meeting Date: 03/26/2018

Subject: APPROVE Record of Action for meeting for January 22, 2018, meeting of the Ad Hoc Committee on Sustainability.

Submitted For: John Kopchik, Director, Conservation & Development Department

Department: Conservation & Development

Referral No.: N/A

Referral Name: N/A

Presenter: Jody London, DCD

Contact: Jody London (925)674-7871

Referral History:

County Ordinance (Better Government Ordinance 95-6, Article 25-205 [d]) requires that each County body keep a record of its meetings. Though the record need not be verbatim, it must accurately reflect the agenda and the decisions made in the meeting.

Referral Update:

Any handouts or printed copies of testimony distributed at the meeting will be attached to this meeting record. Links to the agenda and minutes will be made available at the Committee web page, <http://www.contracosta.ca.gov/6229/Sustainability>.

Recommendation(s)/Next Step(s):

Staff recommends approval of the attached Record of Action for the January 22, 2018, meeting of the Ad Hoc Committee on Sustainability with any necessary corrections.

Fiscal Impact (if any):

N/A

Attachments

01-22-18 SUS-COMM Mtg Minutes



RECORD OF ACTION

AD HOC COMMITTEE ON SUSTAINABILITY

January 22, 2018
12:30 P.M.

651 Pine Street, Room 101, Martinez

Supervisor John Gioia, Chair
Supervisor Federal D. Glover, Vice Chair

Agenda Items:

Items may be taken out of order based on the business of the day and preference of the Committee

Present: John Gioia, Chair
Federal D. Glover, Vice Chair

Staff Present: Jill Ray, BOS District 2
Frank DiMassa, Energy Manager, Public Works Department
Michael Kent, Hazardous Materials Ombudsman, Health Services
Department
Jody London, Sustainability Coordinator

Attendees: Jan Warren
Shoshana Wechsler
Victoria Smith
Mark Thomson
J.R. Killigrew
Howdy Goudey
Charles Davidson

1. Introductions
2. Staff recommends approval of the attached Record of Action for the November 13, 2018, meeting of the Ad Hoc Committee on Sustainability with any necessary corrections.

The Record of Action was approved as submitted.

Vice Chair Federal D. Glover,

AYE: Chair John Gioia, Vice Chair Federal D. Glover
Passed

3. Public comment on any item under the jurisdiction of the Committee and not on this agenda (speakers may be limited to three minutes).

There was no public comment.

4. RECEIVE information on costs and benefits of enrolling in MCE Deep Green and an evaluation of an alternative course of action to achieve Climate Action Plan goals and PROVIDE DIRECTION regarding next steps.

J.R. Killigrew, Community Development Manager with MCE, provided an update on the timeline for switching customers to MCE service. The first round of ads will be posted online in January, with notices going to customers in February and March. The actual switch to MCE service will occur as customers' meters are read in April. There will be two more notices mailed to customers after the switch. MCE is attending as many community events as possible. Jody London noted that MCE is providing training sessions for city and County staff who may receive questions from the public. MCE also is establishing three Community Leadership Advisory Groups across the County.

Frank DiMassa provided a report on the advantages and costs of switching all eligible County accounts to MCE's Deep Green service. DiMassa recommends the County wait for one year before considering Deep Green. The County should use that time to develop and implement a distributed energy resource (DER) plan. This plan would include:

- **Grid-connected renewable energy resources, especially solar and energy efficiency**
- **Energy storage**
- **Electric vehicles**
- **Demand response**

DiMassa explained that the County currently owns or has power purchase agreements (PPAs) for a little over 5 megawatts (MW) of solar energy. Some of those systems were installed in 2002 and are being taken offline.

In December the Board authorized the Department of Public Works to take advantage of an opportunity created by the California Public Utilities Commission for schools and municipalities to sign up for interconnection agreements for solar installations under the current tariff, before it changes. The County submitted 12 interconnection agreements for 5 MW.

Specific to MCE's Deep Green service, the Board would need to budget for the additional cost, which is estimated to be about \$404,000. Public Works estimates that purchasing solar power under a power purchase agreement would save the County \$412,000 against current PG&E rates. DiMassa recommends that the County install the solar projects, which will reduce the amount of electricity the County is purchasing, and then re-evaluate the Deep Green option. DiMassa also recommends that the Ad Hoc Committee direct staff to develop a Distributed Energy Resources Plan, which could be presented at the Committee's March 26 meeting.

5. RECEIVE report on preparation of an Electric Vehicle Readiness Blueprint.

Jody London reported that County staff is working with the Contra Costa Transportation Authority (CCTA) on two grant applications for funding to support development of an Electric Vehicle Readiness Blueprint. The grant applications are due in February.

6. RECEIVE report from the Contra Costa County Sustainability Commission Chair.

Victoria Smith reviewed the Sustainability Commission's annual report and work plan, which were approved by the Board of Supervisors earlier in January. Smith reported that individual Commission members are investigating issues of interest to them and making recommendations to the Commission for future action. Smith pointed out the tracking tool the Sustainability Commission is using to monitor progress in meeting Climate Action Plan goals.

Smith suggested there are issues on which the Board may want to receive input from the Sustainability Commission before it takes action, for example taking service under MCE's Deep Green tariff.

7. RECEIVE update on Renewable Resource Potential Study.

Jody London reported that staff is completing contract negotiations with Meister Consultants Group, a Cadmus company, and hopes to begin work soon.

8. RECEIVE update from the County's Sustainability Coordinator.

Jody London reviewed the items in the written report included with the agenda.

Michael Kent reported that the Hazardous Materials Commission has been talking about school siting. Kent noted the Resilient by Design challenge has chosen North Richmond for a design project; an advisory group is beginning to meet in relation to that project. Kent also noted the regional Adapting to Rising Tides (ART) study being performed by the Bay Conservation and Development Commission. He confirmed with the Committee that governance issues being discussed in the regional ART process should be brought to the Ad Hoc Committee on Sustainability.

Charles Davidson noted that the U.S. Environmental Protection Agency is determining whether the Selby Slag Superfund site can be repurposed.

9. The next meeting is currently scheduled for Monday, March 26, 2018, 12:30 p.m.

10. Adjourn

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For Additional Information Contact:

Jody London, Sustainability Coordinator
Phone: (925) 674-7871
Jody.London@dcd.cccounty.us



Contra Costa County Board of Supervisors

Subcommittee Report

AD HOC COMMITTEE ON SUSTAINABILITY

4.

Meeting Date: 03/26/2018

Subject: RECEIVE PRESENTATION regarding the Idle Free Pledge and REFER the item to the Board of Supervisors for further consideration.

Submitted For: John Kopchik, Director, Conservation & Development Department

Department: Conservation & Development

Referral No.: N/A

Referral Name: N/A

Presenter: Jody London, DCD

Contact: Jody London (925)674-7871

Referral History:

On April 25, 2017, the Board of Supervisors adopted Resolution 2017/145 resolving that the Board would take the Idle Free Pledge and encourage Contra Costa County employees and residents to also take the Idle Free Pledge.

Referral Update:

The Contra Costa County Board of Supervisors was the first municipal government in the Bay Area to take the Idle Free Pledge. 138 County employees have taken the pledge, including the Supervisors. Prior to the Board's action, the Pittsburg Unified School District began promoting idle free behavior using signage and outreach. Subsequent to the Board's action, the Martinez Unified School District, City of Martinez, and Walnut Creek School District issued proclamations in support of the Idle Free Pledge. All of the actions taken to date have encouraged voluntary action.

In Martinez, students from the Public Health Academy at Alhambra High School have been instrumental in advocating for the School Board and City Council to endorse no-idling policies. The students regularly promote the Pledge at all the schools in Martinez. They would like to expand the reach of their advocacy for clean air.

The Bay Area Air Quality Management District is interested in assessing the effectiveness of the Idle Free Pledge in changing driver behavior. Contra Costa County staff are facilitating interns from Alhambra High School to develop and administer a survey of all the people in the Bay Area who have taken the Idle Free Pledge. The attached presentation provides their findings as well as recommendations for additional action by the County and other entities to increase participation.

Recommendation(s)/Next Step(s):

RECEIVE PRESENTATION regarding the Idle Free Pledge and REFER the item to the Board of Supervisors for further consideration.

Fiscal Impact (if any):

N/A

Attachments

Spare the Air Meeting Presentation

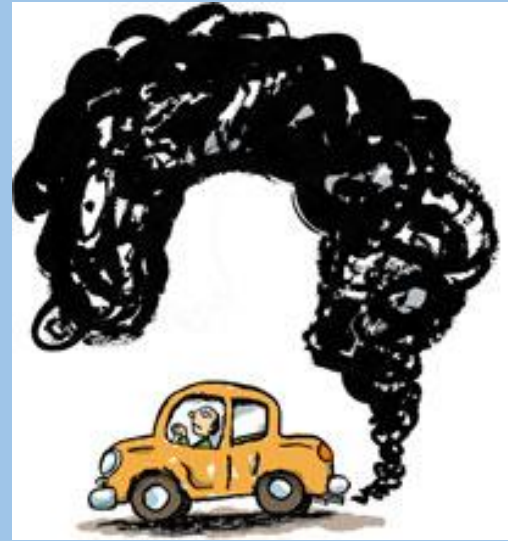


Idle Free
for a healthier
community!

Public Health 2017-2018
Alhambra High School
Jobette Jingco and Lindsey Osmer

What is idling?

Idling is running the vehicle's propulsion engine while the vehicle is NOT moving.



YET...it costs money, contributes to climate change and impacts community health!

Idling = Pollution

The general term for air pollutants is particulate matter (PM). PM can...

- aggravate asthma
- decrease lung function
- worsen cardiovascular problems



Who is most affected by air pollution?

The elderly and young children!



Idling → Climate Change

Every 10 minutes of idling
pound of CO₂ emissions!



- CO₂ is the primary contributor to climate change
 - One fourth of all CO₂ emissions are caused by idling vehicles!
- Idling emits the same amount of pollution as moving vehicles
- Emissions from the transportation sector are a major source of pollution in Contra Costa County

Martinez Unified School District Board Presentation

Public Health Students addressed the Martinez Unified School District Board, and proposed that the district adopt a resolution to eliminate idling on district property. The resolution passed in June 2017.



Martinez City Council Proclamation Approved - January 2018



Alhambra Public Health Students at City
Council meeting - January 2018



Ongoing Campaign to Reduce Idling

Public Health Internship - Spring 2018 -
CCC Department of Conservation and
Development

Worked with

- Jody London - Sustainability Coordinator
- Jessica Williams - Community Focus
(nonprofit to promote healthier communities)



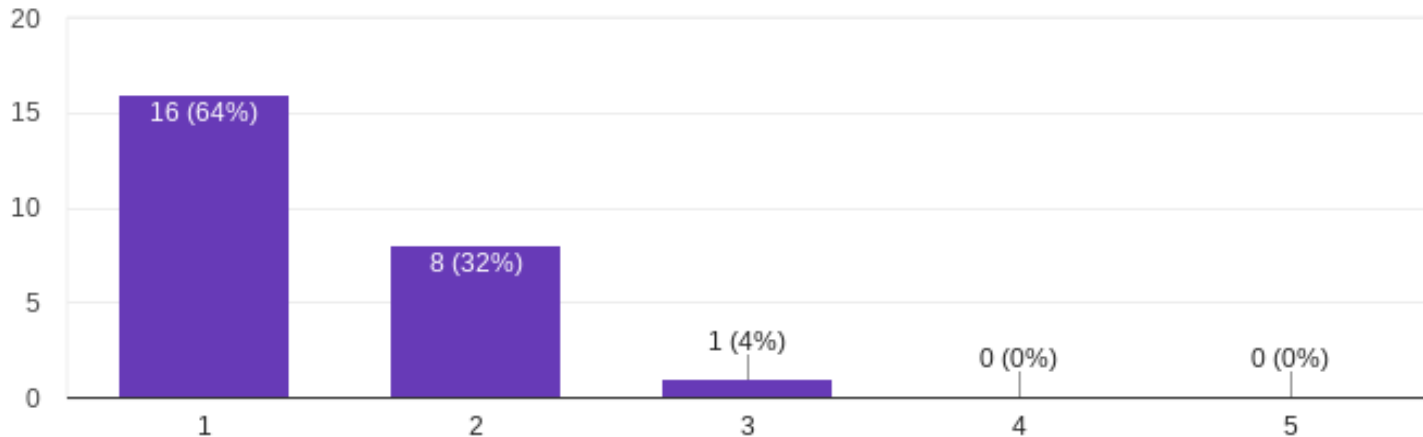
Idle Free Pledge in Contra Costa County

- On April 24, 2017 the Board of Supervisors took the Idle Free Pledge
 - encouraged Contra Costa County employees and residents to also take the Pledge
- 138 County employees took the pledge out of nearly 9,900 employees total

Idle Free Follow-Up Survey

After taking the Idle Free Pledge, how many times in a week do you still idle for more than 30 seconds?

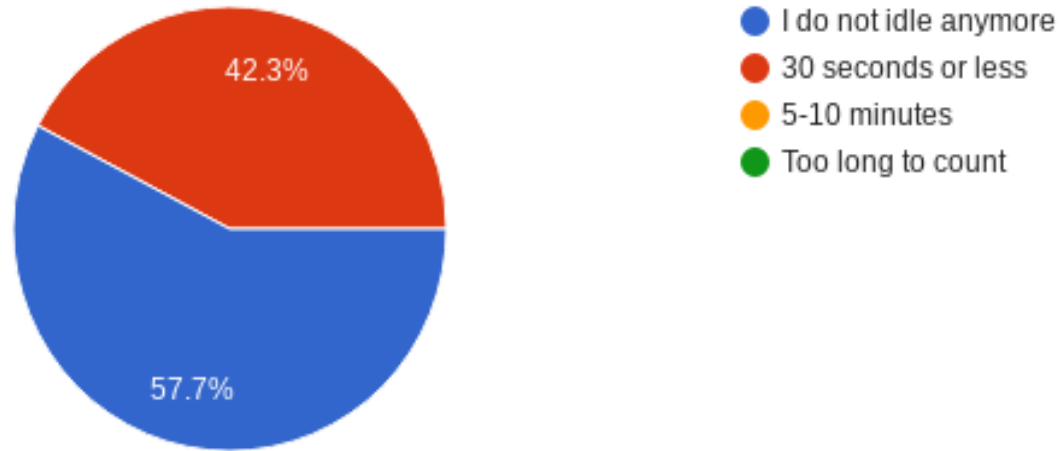
25 responses



Idle Free Follow-Up Survey

When you do idle, how long do you idle for each time?

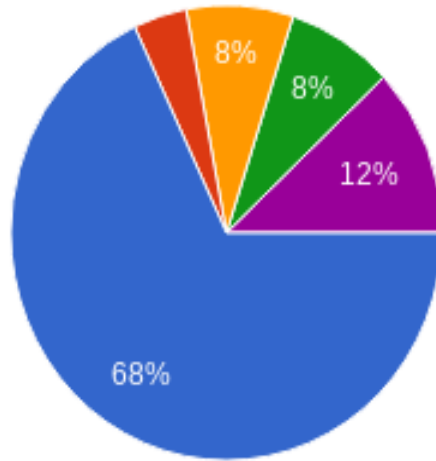
26 responses



Idle Free Follow-Up Survey

If you still idle, why do you continue to do it?

25 responses



- I do not idle anymore
- I think it damages my vehicle
- Convenience of keeping the car on
- Ability to control the temperature
- I forget to turn the car off

Suggestions from Survey Respondents

- More posted signs, especially in school drop-off and pick-up lines
- Idle Free car stickers and window clings
- Radio broadcasts
- Work with driving instructors to educate students and teach them not to idle
- Public Service Announcements
- Billboards
- Bookmarks
- Small timers

What the County Can Do

- Post idle free signs at County offices,
- More direct messaging to County employees
- Idle Free stickers in County fleet vehicles
- Consider policy that prohibits idling in County vehicles



Next Steps at Alhambra High

- Approach Shell to promote Idle Free Pledge to employees
 - Promote idle free actions at gas stations
- Approach DMV and ask to promote idle free actions to drivers
 - Highlight in offices to employees, as well as drivers



Idle Free Pledge





Contra Costa County Board of Supervisors

Subcommittee Report

AD HOC COMMITTEE ON SUSTAINABILITY

5.

Meeting Date: 03/26/2018

Subject: PROVIDE DIRECTION to staff regarding development of a Distributed Energy Resource Plan for County facilities.

Submitted For: Jody London, Sustainability Coordinator

Department: Conservation & Development

Referral No.: N/A

Referral Name: N/A

Presenter: Frank Di Massa, CCC Public Works **Contact:** Jody London (925)674-7871
Dept.

Referral History:

At the Board of Supervisors Ad Hoc Committee on Sustainability meeting of January 22, 2018, Public Works representatives were directed to provide additional information on the proposed Contra Costa County Distributed Energy Resources (DER) Plan. In response, the attached brief report provides a definition of DER and presents Public Works' proposed DER goals and implementation strategy.

Referral Update:

Public Works will present the Draft DER Plan to the Ad Hoc Committee on Sustainability for comment, suggestion, and direction.

Recommendation(s)/Next Step(s):

PROVIDE DIRECTION to staff regarding development of a Distributed Energy Resource Plan for County facilities.

Fiscal Impact (if any):

No immediate impact. As envisioned, implementation of the DER plan elements will result in substantial rebates from PG&E and MCE and positive cash flow DER investments financed through utility bill savings.

Attachments

DER Plan - Draft

Contra Costa County Distributed Energy Resources Plan

At the Board of Supervisors Ad Hoc Committee on Sustainability meeting of January 22, 2018, Public Works representatives were directed to provide additional information on the proposed Contra Costa County Distributed Energy Resources Plan. In response, this brief report provides a definition of DER and presents Public Works proposed goals and implementation strategy.

What is Distributed Energy Resources (DER)?

The U.S. Department of Energy (DOE) envisions a resilient, secure, resource efficient and environmentally sustainable “Smart” electric utility grid. As envisioned, the Smart Grid relies on the internet of things (IoT)¹ and supports the integration of Distributed Energy Resources. The California Energy Commission (CEC) defines DER as grid-connected distributed renewable energy systems, energy efficiency (EE), energy storage (ES), electric vehicles (EV), and demand response (DR) supported by a wide-ranging suite of policies adopted by the California Public Utilities Commission (CPUC).

Distributed Energy Resources (DER) consists of five elements as follows:

1. **PV** **Parking Lot Canopy and Building Integrated Photovoltaics**
2. **EE** **Energy Efficiency HVAC, Controls, Lighting modernization**
3. **ES** **Energy Storage – Lithium ion and flow battery systems for load management**
4. **EV** **Electric Vehicle Charging Systems**
5. **ADR** **Automated Demand Response systems tied to PG&E rate reduction program**

Prime examples of DER technologies include parking lot canopy solar PV systems, LED lighting and advanced building controls, lithium-ion battery storage systems, electric vehicle supply equipment (EVSE) to charge vehicles such as the Chevy Bolt and Nissan Leaf, and demand response systems that automatically respond to utility calls for load reduction by relaxing cooling system set points, dimming lights and turning off unessential equipment to relieve the burden on the grid during periods of capacity constraint.

Distributed Energy Resources in Contra Costa County Operations

Contra Costa County leaders realize that aggressively pursuing implementation of DER in County facilities is the best way to meet the statutory renewable energy goals and the carbon reduction requirements of SB350 (Clean Energy & Pollution Reduction Act) and the objectives of the County’s Climate Action Plan.

¹ The IoT is the interconnection via the Internet of computing devices embedded in everyday objects, enabling them to send and receive data.

The DER Plan that follows has been prepared with input and direction from the Public Works Department staff, including Facility Maintenance Directors and Deputy Directors.

Photovoltaics (PV)

The Department of Public Works has issued an RFQ to identify and short-list solar developers capable of installing the PV systems listed in Figure 1 below under a power purchase agreement (PPA) or other financial arrangement that is positive cash flow for the County beginning in year 1 and remaining positive throughout the contract or lease period. The selected solar developer must also have expertise and practical experience with the installation of EV Chargers and Energy Storage in conjunction with PV.

Site	Energy Consumption (kWh/yr)	Annual Energy Cost (\$)	Est. PV Capacity (kWac)	Est. Annual PV Production (kWh)	Est. 1st Year PV Savings (\$)	Solar % of Load
1000 WARD ST	2,526,524	\$ 417,536	1,313	1,900,000	\$ 323,000	75%
30 DOUGLAS DR	2,034,165	\$ 309,944	842	1,200,000	\$ 192,000	59%
50 DOUGLAS DR	985,486	\$ 216,344	370	540,000	\$ 118,800	55%
30 MUIR RD	320,993	\$ 65,815	149	218,000	\$ 45,780	68%
1305 MACDONALD AVE	468,109	\$ 50,244	241	350,000	\$ 56,000	75%
4800 IMHOFF PL	315,606	\$ 48,325	184	265,000	\$ 42,400	84%
2935 PINOLE VALLEY RD	106,516	\$ 30,404	66	96,000	\$ 21,120	90%
597 Center	651,674	\$ 143,631	196	285,000	\$ 62,700	44%
2530 Arnold	1,067,935	\$ 210,914	462	676,000	\$ 135,200	63%
4545 Delta Fair	753,365	\$ 129,798	396	579,000	\$ 104,220	77%
4549 Delta Fair	429,169	\$ 92,394	198	290,000	\$ 62,350	68%
TOTALS	9,659,542	\$ 1,715,349	4,417	6,399,000	1,163,570	66%

Figure 1: Facilities with grandfathered Interconnection Agreements (IAs)

FY18/19 Goal: The Department of Public Works anticipates that between 5 MW or more of solar capacity will be installed in FY18/19 generating over 6,000,000 kWh of clean renewable energy per year with an associated annual GHG reduction of 1,440 metric tons CO₂.

Additional PV Activities

- Develop a zero net energy (ZNE) pilot project, preferably at a County facility located in a disadvantaged community. The focus will be on public education and job development training for local electricians.
- Provide technical support and related assistance to DCD with the Renewable Resources Potential study being performed with support from Cadmus Consulting.
- Assist DCD in evaluating permit applications for megawatt class merchant solar power plants and large warehouse solar projects.
- Explore partnership possibilities with MCE, Solar Richmond, Richmond Build and Grid Alternatives to build new PV systems in the County with a focus on community solar projects that provide the greatest benefit to disadvantaged communities.

Energy Efficiency

The Department of Public Works has issued an RFQ to identify and place on a short-list Energy Service Companies (ESCOs) capable of generating performance contracts for high value, short payback period energy efficiency measures at selected facilities using PG&E on-bill financing (OBF) as the fund source.

FY18/19 Goal: The Department of Public Works anticipates that approximately \$4,000,000 (PG&E OBF max for municipalities) in energy efficiency improvements will be installed and operational in FY18/19.

Electric Vehicles

A recent survey (February, 2018) of County employees with 1221 respondents provided the following information:

1. 126 County employees currently own electric vehicles
2. 473 indicated that they are interested in purchasing a plug-in electric or hybrid vehicle
3. 880 (75 % of respondents) support the installation of EV chargers at the facility where they work
4. 763 (66 % of respondents) stated that they would be more likely to purchase an electric vehicle if there were EV chargers at the workplace

It appears that the most economical and timely method of installing EV chargers is PG&E's *EV Charge Network Program* whereby PG&E designs and installs EV Charging infrastructure (minimum of ten chargers) at no cost to the building owner. PG&E also provides a 25% rebate for the EV charger units and MCE has a proposed program in place to pay for half of the remaining cost of the chargers via a rebate. The PG&E program requires the County to enter into both a ten year easement and a contractual agreement. Public Works has prepared a Board Order requesting Board approval to allow Public Works to enter agreements with PG&E under the EV Charge Network Program.

Initial facilities where there is sufficient demand and that can gain the greatest benefit from PG&E's program include but are not limited to:

- 30 Muir
- 595/597 Center
- 4549 Delta Fair
- 50 Douglas

With the Board's approval, the County will join the California Air Resources Board's (CARB) Low Carbon Fuel Standard (LCFS) program. County participation in this program will create a source of ongoing revenue to offset the cost of EV charging infrastructure and/or to allow a lower price for electricity consumed by EV drivers that use County facilities.

FY18/19 Goal: The Department of Public Works anticipates that the County will install 75 to 100 Level 2² EV chargers in FY18/19. Many of these chargers will be public facing and therefore usable by both the public and County employees.

² Level 2 chargers are the most commonly used and accessible to all EV on the road today

Energy Storage

The solar developer selected through the RFQ process will evaluate the eleven facilities listed in Figure 1 to determine if and where energy storage is cost effective.

FY18/19 Goal: The Department of Public Works anticipates that one or more of the facilities listed in Figure 1 will be a candidate site for a cost-effective energy storage system that can be financed under a power purchase agreement in conjunction with PV. The County intends to install an energy storage system at the Zero Net Energy Retrofit Pilot Project site mentioned above.

Automated Demand Response

The County is working with PG&E's third-party contractor to identify facilities that will gain economic benefit by participating in PG&E's automated demand response program which provides rate relief to participants by allowing customers to curtail energy usage during periods of high electricity demand. PG&E's automated demand response program also provides rebates for hardware and no-cost technical support.

In a parallel activity the County is working with its building management systems contractor to upgrade the County's building management systems (BMS) software so that it can interface with PG&E automated demand response equipment, optimize operations, reduce energy consumption, and allow the County to better monitor and understand building energy consumption and electrical and mechanical systems' performance on a County-wide basis.

FY18/19 Goal: Utilize PG&E's incentive program to the extent possible. It is projected that the County will receive \$270,000 in rebates for hardware that will allow sixty-four (64) County facilities to participate in PG&E ADR programs.

Direction from the Board

Public Works seeks input, direction and approval from the Board to modify or expand the DER plan as needed and to proceed with the implementation strategies.



Figure 2: Contra Costa County has established itself as a leader in DER, as illustrated by this Google image showing a high penetration of parking lot canopy PV systems and EV chargers at a County complex that provides vital services to the public.



Contra Costa County Board of Supervisors

Subcommittee Report

AD HOC COMMITTEE ON SUSTAINABILITY

6.

Meeting Date: 03/26/2018

Subject: PROVIDE DIRECTION to staff regarding development of a Countywide message on sustainability.

Submitted For: John Kopchik, Director, Conservation & Development Department

Department: Conservation & Development

Referral No.: N/A

Referral Name: N/A

Presenter: Jody London, DCD

Contact: Jody London (925)674-7871

Referral History:

Referral Update:

A theme in the County's Climate Action Plan is outreach and education to County residents and businesses on different measures in the Climate Action Plan: energy use, renewable energy, financing for energy and conservation improvements, active transportation, water conservation, reducing solid waste. The County Sustainability Commission has identified as an action item a more strategic approach to communication and education on sustainability, with a goal of changing behavior, for County residents and businesses. The Commission has ideas on how this could be accomplished. Some members of the Sustainability Commission have expertise in communications and outreach and would like to advise the County on this regarding the Climate Action Plan.

The County Sustainability Coordinator has identified this same opportunity in her work with members of the Board of Supervisors, members of the community, County staff, and others. The Sustainability Coordinator is in the process of revamping the Sustainability web page on the County web site. While important, this alone is not sufficient to motivate the behavioral change that will be necessary for the County to achieve the goals of the Climate Action Plan.

There is not a specific budget for communication and education on Climate Action Plan issues, nor does the Department of Conservation and Development, where the Sustainability Coordinator is based, have budget for a specific staff position focused on these activities. However, the County's Office of Communications and Media has technology and staff who could be directed to support work in this area. Several County departments have staff positions that focus on outreach and media relations – Public Works, several groups within the Health Department, Clerk-Recorder to name a few. There may be opportunities to leverage these existing County resources to identify key elements of a Countywide message on sustainability.

Staff recommends that the Ad Hoc Committee on Sustainability direct staff to identify the

elements of an action plan for a Countywide education and outreach campaign on the Climate Action Plan, and resources needed to successfully implement such a plan.

Recommendation(s)/Next Step(s):

DIRECT staff, facilitated by the Sustainability Coordinator, to identify the elements of an action plan for a Countywide education and outreach campaign on the Climate Action Plan, and resources needed to successfully implement such a plan.

Fiscal Impact (if any):

N/A

Attachments

No file(s) attached.



Contra Costa County Board of Supervisors

Subcommittee Report

AD HOC COMMITTEE ON SUSTAINABILITY

7.

Meeting Date: 03/26/2018

Subject: RECEIVE Report from Sustainability Commission Chair.

Submitted For: John Kopchik, Director, Conservation & Development Department

Department: Conservation & Development

Referral No.: N/A

Referral Name: N/A

Presenter: Victoria Smith, Sustainability Chair **Contact:** Jody London (925)674-7871

Referral History:

The Ad Hoc Committee on Sustainability has asked the Sustainability Commission to provide a report on its deliberations at each Committee meeting.

Referral Update:

N/A.

Recommendation(s)/Next Step(s):

RECEIVE report from the Contra Costa County Sustainability Commission Chair.

Fiscal Impact (if any):

N/A

Attachments

No file(s) attached.



Contra Costa County Board of Supervisors

Subcommittee Report

AD HOC COMMITTEE ON SUSTAINABILITY

8.

Meeting Date: 03/26/2018
Subject: RECEIVE update from the County's Sustainability Coordinator.
Submitted For: John Kopchik, Director, Conservation & Development Department
Department: Conservation & Development
Referral No.: N/A
Referral Name: N/A
Presenter: Jody London, DCD **Contact:** Jody London (925)674-7871

Referral History:

RECEIVE update from the County's Sustainability Coordinator.

Referral Update:

This report provides an update to the Ad Hoc Sustainability Committee on the work of the County's Sustainability Coordinator since the Committee last met in January 2018. Key activities during this period are listed below.

- Worked with the Contra Costa Transportation Authority to submit proposals to the California Energy Commission and California Department of Transportation for funding to support development of an Electric Vehicle Readiness Blueprint.
- Completed the contract with Meister Consultants/Cadmus Group for the Renewable Resource Potential Study and initiated work on that project.
- Initiated collaboration with the County Library system on programs related to the Climate Action Plan that can be offered through the Libraries. A representative from the County Library attended the February meeting of the Sustainability Commission and is working with members of the Commission on a pilot Fix-It Clinic. Staff from the Department of Conservation and Development are working with the Library to establish a system for residents to check out energy efficiency toolkits they can use in their homes. Staff expects additional opportunities to collaborate will develop over time.
- Supported the February meeting of the Sustainability Commission and worked with Sustainability Commission members on various topics.
- Accepted the resignation of the Education, At-Large member of the Sustainability Commission, and initiated the process for advertising and filling the vacancy.
- Supported Contra Costa County Climate Leaders in hosting a workshop at County offices on rooftop solar.
- Collaborated with the Office of the Clerk/Recorder to offer a tutorial for County staff on

how to effectively use Twitter.

- Worked with MCE staff on issues related to switching County customers to MCE, coordinating on outreach to customers for energy efficiency programs, and providing input to MCE for electric vehicle programs.
- Worked with the Hazardous Materials Ombudsman and energy efficiency staff to submit an application for a Civic Spark Fellow to coordinate energy efficiency programs to disadvantaged and vulnerable communities.
- Met with the Resilient by Design team working in North Richmond to provide background and context for their project.
- Convened quarterly meeting of the Sustainability Exchange.
- Continued coordinating with staff of the Bay Conservation and Development Commission (BCDC) on the Adapting to Rising Tides – Eastern Contra Costa study.
- Collaborated with County staff working on topics including land use and transportation, hazardous materials, green business program, economic development, Planning Integration Team for Community Health (PITCH), codes, solid waste, energy.
- Participated in regional activities.

Recommendation(s)/Next Step(s):

RECEIVE update from the County's Sustainability Coordinator.

Fiscal Impact (if any):

None.

Attachments

No file(s) attached.
