



BAY AREA
AIR QUALITY
MANAGEMENT
DISTRICT

AGENDA: 4

Update on Community Choice Energy Study



Climate Protection Committee Meeting
June 10, 2019

Abby Young
Climate Protection Manager

Benjamin Foster
President, Fosterra

Air District Support of Community Choice Energy (CCE)

- 2007 Climate Protection Grants:
 - Provide start-up funding for Marin Clean Energy.
 - Provide funding for feasibility study for Sonoma Clean Power.
- 2018 Climate Protection Grants:
 - *Silicon Valley Clean Energy*: \$325,000 for incentives and marketing to replace residential gas water heaters with electric heat-pumps.
 - *East Bay Clean Energy / Peninsula Clean Energy*: \$300,000 to support resilient solar systems on critical facilities.
- Annual sponsorship: Business of Local Energy Conference.
- Study on cities joining CCEs with 100% renewable energy.

Community Choice Energy Study

Research question: How can cities maximize the climate protection benefit of participating in CCE programs?

- Contract with KyotoUSA and partner Fosterra to assess potential for cities to join community choice energy programs at the highest possible renewable energy content.
- Ben Foster, President of Fosterra, Commissioner for San Jose Clean Energy.

100% Renewable Power Study for Seven (7) Cities in East Bay Community Energy (EBCE)

- \$38,500 contract to KyotoUSA with partner Fosterra.
- Conduct a study on cities joining a community choice energy program by “opting up” to 100% renewable electricity.



Cities are working harder than ever to reach carbon-free power goals and CCEs provide an expedited way to get there...

City sets community carbon-free power goal

City enables CCE

CCE purchases clean power

City selects default carbon-free power

City achieves electricity emissions goal

City/CCE pursues building & vehicle electrification

Report Scope & Goals

Project Goal: Evaluate the potential for seven self-selected communities within EBCE to select 100% renewable energy as a default for residents, businesses, and municipal accounts.

Report Scope:

- **Task 1:** Research and evaluate current CCE renewable energy products and rates as a basis for comparison with the product offerings from EBCE.
- **Task 2:** Investigate and analyze the options, greenhouse gas (GHG) impact, and costs for selecting a 100% renewable energy product as the default for the cities of:
 - *Albany, Berkeley, Piedmont, Hayward, Emeryville, San Leandro, and Oakland.*
- **Task 3:** Develop a report of the findings from Tasks 1 and 2 to provide the cities and EBCE with recommendations to encourage faster achievement of GHG-reduction.

Why this is important...

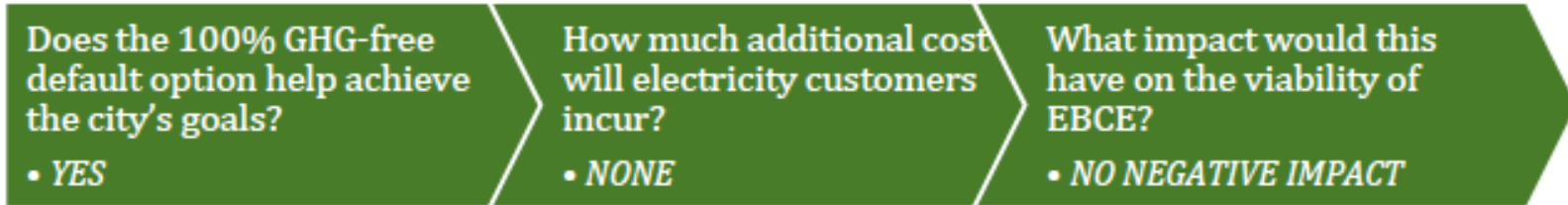
- Partnership between cities and CCEs create a pathway to larger-scale renewables procurement and delivery.
- Aligns the electricity supplier with City/County/State goals for clean energy and GHG reduction.
- This approach will continue to evolve and expand to create ongoing opportunities at both existing and new CCEs.
- Enables deeper impact through electrification initiatives for the built environment and transportation.

EBCE Product Options

- **EBCE Product Options:**

- Bright Choice 38% Renewable 85% GHG-Free
- Brilliant 100 40% Renewable 100% GHG-Free
- Renewable 100 100% Renewable 100% GHG-Free

Key Findings and Impact



- EBCE pricing for the Brilliant 100 product is the same price as Pacific Gas and Electric (PG&E) power, although it is priced higher than some CCE peers in the Bay Area. This rate makes the decision for a city to set Brilliant 100 as the default option much easier.
- During the development of this report, early findings were shared with the seven interested cities and EBCE staff and Board of Directors. Those interactions resulted in the Board voting to increase the GHG-free mix of electricity for Bright Choice from 70% GHG-free to 85% GHG-free.

Actions Taken as a Result of the Study

- **Several cities already took action based on the report's findings:**
 - Albany opted up all its customer classes to Brilliant 100.
 - Hayward opted up all classes to Brilliant 100 with the exception of customers who receive a fixed discount (i.e. California Alternate Rates for Energy (CARE)).
 - Piedmont opted up both its municipal and residential accounts to Renewable 100.
 - Most cities opted up their municipal accounts to Brilliant 100.

EBCE Enrollment Progress – March 2018

EBCE Forecasted Opt-Out Rates: 10% (Per approved budget April 2018)

<i>EBCE Enrollment Progress as of 03/11/2019</i>	Program Enrollment							
	Eligible Accts	Opt Out %	Bright Choice	%	Brilliant 100	%	Renewable 100	%
ALBANY	7,136	2.1%	46	0.6%	6,851	96.0%	89	1.2%
BERKELEY	52,859	1.4%	51,021	96.5%	468	0.9%	627	1.2%
DUBLIN	24,592	3.0%	23,568	95.8%	250	1.0%	26	0.1%
EMERYVILLE	7,821	2.2%	7,525	96.2%	89	1.1%	37	0.5%
FREMONT	81,903	2.7%	78,946	96.4%	624	0.8%	97	0.1%
HAYWARD	54,918	3.3%	13,441	24.5%	39,615	72.1%	31	0.1%
LIVERMORE	33,606	9.2%	30,419	90.5%	48	0.1%	53	0.2%
OAKLAND	178,187	2.4%	171,624	96.3%	1,397	0.8%	829	0.5%
PIEDMONT	3,734	4.2%	133	3.6%	103	2.8%	3,343	89.5%
SAN LEANDRO	34,982	3.8%	33,278	95.1%	291	0.8%	69	0.2%
UNINCORPORATED	53,132	4.6%	50,412	94.9%	229	0.4%	65	0.1%
UNION CITY	22,950	3.2%	22,210	96.8%	20	0.1%	15	0.1%
TOTAL	555,820	3.2%	482,623	86.8%	49,985	9.0%	5,281	1.0%

Values estimated

- No material difference in cities with premium power default.

Looking Forward

- There are opportunities for communities at all CCEs to opt up to 100% renewable energy:
 - Both existing and newly forming CCEs can maximize renewable content in their default product options.
 - This will align their efforts with Air District and State climate goals.
- Moving toward 100% renewable energy will keep CCEs competitive – *PG&E may reach almost 100% GHG-free power as early as 2019.*

Thank You

Full report available at: <http://www.baaqmd.gov/plans-and-climate/climate-protection/local-government-support>

Diesel Free by '33 Implementation Plan



Climate Protection Committee Meeting
June 10, 2019

Ranyee Chiang, Ph.D.
Technology Implementation Officer

Diesel Free by '33 Initiative



Launched on September 12, 2018

<http://dieselfree33.baaqmd.gov/>

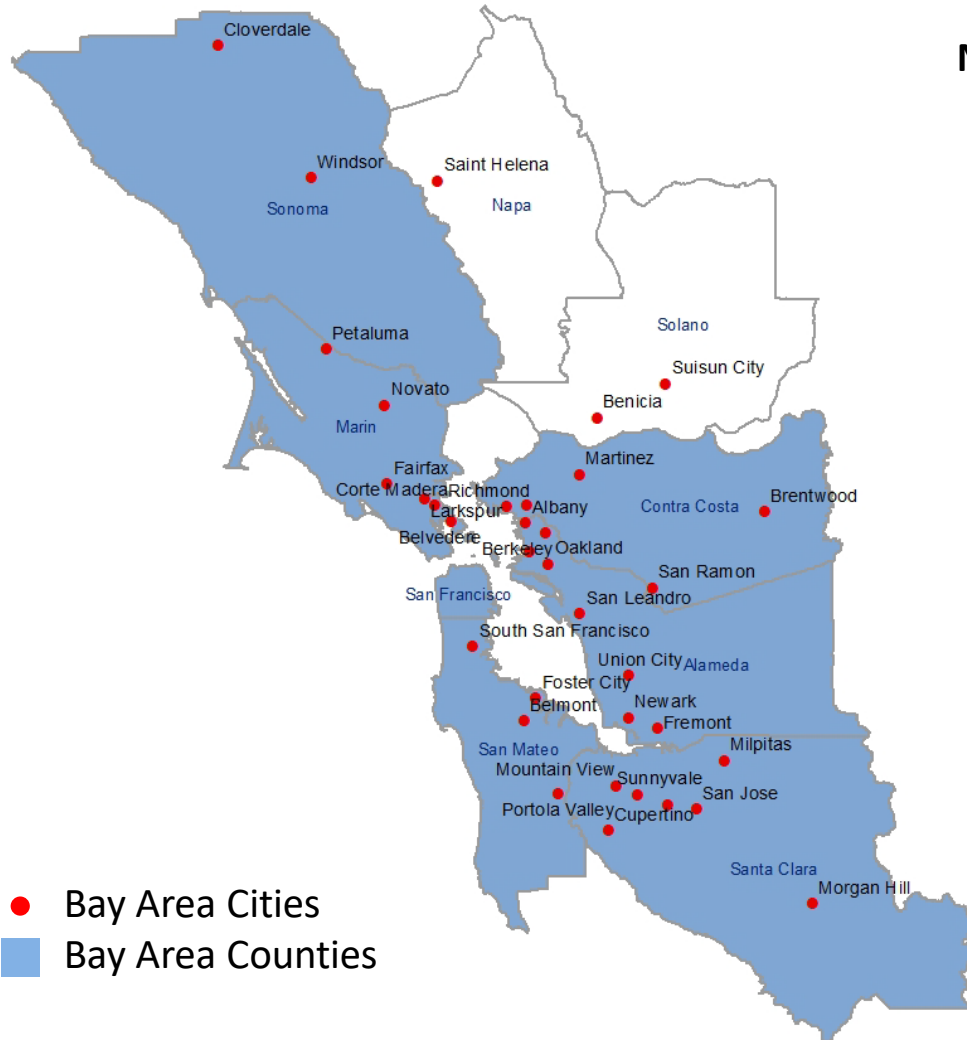
Diesel Free by '33 Statement of Purpose



“By signing the Statement of Purpose, mayors, city and county governments, industry and business leaders, will join the Bay Area Air Quality Management District and the state of California to showcase our collective leadership to...

identify and adopt innovative solutions to eliminate diesel emissions and black carbon from our communities.”

118 Signatories



Non-profit organizations

- Center for Climate Protection
- Move LA
- Prospect Silicon Valley
- Silicon Valley Leadership Group
- West Oakland Environmental Indicators Project

Businesses

- Bloom Energy
- California Ethanol and Power
- FirstElement Fuel
- Proterra
- Wind and Wing Technologies

Government and Public Agencies

- City of Santa Monica
- Metropolitan Transportation Commission
- Port of Oakland
- Sonoma Clean Power Authority

Implementation Plan Goals



- Support signatories
- Leverage Air District programs
- Track progress
- Achieve greater reductions in diesel emissions
- Extend impact beyond the Bay Area

Implementation Plan Program Areas



- Technical Assistance
- Policy Support
- Grants and Financing
- Convene Signatories
- Communications and Outreach

Implementation Plan Program Areas



Technical Assistance

- Provide data and technical assistance on *current diesel sources* and *alternative technologies*:



Leverages: permitting data, Assembly Bill 617 (AB 617) inventory, Emission Factors model (EMFAC), and technology assessment

Policy Support

Grants and Financing

Convene Signatories

Communications and Outreach

Implementation Plan Program Areas



Technical Assistance

Policy Support

- Research and distribute existing ordinances and regulations
- Develop new model ordinances and best practices



Leverages: ongoing rule development and planning efforts

Grants and Financing

Convene Signatories

Communications and Outreach

Implementation Plan Program Areas



Technical Assistance

Policy Support

Grants and Financing

- Enhance existing incentives programs through new resources to raise awareness and provide increased support
- Develop new incentive sources and mechanisms



Leverages: incentive programs

Convene Signatories

Communications and Outreach

Implementation Plan Program Areas



Technical Assistance

Policy Support

Grants and Financing

Convene Signatories

- Reporting from signatories to share progress
- Staff-level and signatory-level meetings on policies, incentives, and reporting



Leverages: government engagement, peer-to-peer networking, and other major events

Communications and Outreach

Implementation Plan Program Areas



Technical Assistance

Policy Support

Grants and Financing

Convene Signatories

Communications and Outreach

- Develop new webpages to share information and resources
- Expand signatories through national and international partnerships
- Highlight major milestones in the media



Leverages: Website tools and communications strategy

Next steps



- Organize meetings with local government representatives for input on implementation work plan, inventory needs, and reporting
- Update website for posting resources (e.g. policies, incentives)

Timeline (2018 – 2033)

