



Review of 100% Renewable Default Option Study for EBCE Communities

CITY OF PIEDMONT
CLIMATE ACTION PLAN TASK FORCE
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Agenda

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Project Scope

Goal: *Evaluate potential impact for self-selected communities within East Bay Community Energy (EBCE) to provide 100% renewable energy (100RE) as a default for their residents and businesses.*

Task 1: Research and Evaluate Current CCE Renewable Energy Products

Task 2: Investigate potential for offering 100% RE default product for Albany and Berkeley – and now Piedmont and Hayward

Task 3: Develop and share a summary findings report

Opportunity for East Bay Communities

- GHG reductions from 100% renewable electricity consumption
- Take community-wide action on an opt-out basis
- Participate with a growing list of leading cities and companies
 - Government: *municipal accounts are 100% RE*
 - Cities and Towns of Corte Madera, El Cerrito, Larkspur, Mill Valley, Napa, Novato, Richmond, Ross, and San Rafael; and the Counties of Marin and Napa; Campbell, Cupertino, Morgan Hill, Mountain View, Saratoga, Sunnyvale, Los Altos, Los Gatos, Gilroy, and Los Altos Hills
 - Cities: *planning and taking action*
 - Portola Valley (Peninsula Clean Energy) enrolled at 100% RE
 - 153 Cities have committed to 100% clean energy: <http://www.sierraclub.org/ready-for-100/mayors-for-clean-energy>
 - Commercial: *leading the way through green power purchasing*
 - 111 companies have agreed to obtain 100% of their electricity from renewables by 2020. <http://there100.org/companies>.
 - Including Facebook and many others served by CCAs have signed up for the 100% option.

Decision Path and Analytical Approach

Does this option (100% RE Default) help achieve city's goals?

- *Analysis: Calculate the new GHG impact relative to City goals*

If yes...How much additional cost will electricity customers incur?

- *Analysis: Calculate incremental cost to representative individual municipal, residential, non-residential and CARE customers if enrolled in the 100% RE option, and in total by City*

Potential Options to Consider:

- *All customers assume the additional cost (price)*
- *City subsidizes all or part of the additional supply at cost*
- *EBCE identifies opportunities to decrease costs through planning and volume*

How it Might Work

Discussions with EBCE to determine actual impacts/costs/methodology

Each participating city passes a resolution to default into 100% RE option

Prior to roll out – extensive publicity/outreach to participating cities

- *Describe pricing for average residential/commercial customer*
- *Describe benefits in terms of GHG reductions*
- *Explain “opt down” and “opt out” options*
- *Explain any steps taken to reduce costs*
- *Potential for net revenues to be invested in local programs*

Initial Summary of CCA 100% RE Programs

Program Information	MCE	SCP	PCE	CPSF	SVCE	LCE
100% Option Program Name	Deep Green	EverGreen	ECO100	Super Green	Green Prime	Smart Choice
Green Power Sources	50% Wind, 50% Solar	100% Geo	53% Wind, 26% Hydro, 7% Solar, 7% Biomass, 7% Geo	98.5% Wind, 1.5% Solar	80% Wind, 20% Solar	100% Wind
Incremental 100% Price (\$/kWh)	\$0.010	\$0.025	\$0.010	\$0.020 Res, \$0.014 non- Res	\$0.008	\$10/mo Res, \$0.015 non-Res
100% Option Opt-In Percent	2.6% of 2016 Retail Sales	???	1.5% of Accounts	3.7% of Accounts	TBD	???
2017 Residential PCIA	0.02977	0.02977	0.02977	0.02977	0.02977	0.01503
100% Price as Percent of PCIA	34%	84%	34%	67%	27%	86%
Average Residential Monthly Bill (E-1)	107	119	98	63	108	135
Percent Increase for 100% RE	4.2%	10.4%	4.3%	8.5%	3.4%	7.4%
Average Commercial Bill (A-10X)	3,995	4,508	3,704	2,948	3,809	2,128
Percent Increase for 100% RE	4.9%	12.4%	5.2%	10.2%	4.0%	9.3%

Request for Input

- What are the key drivers for increasing renewable energy consumption?
- What are the significant concerns and/or issues?
- What information is needed to make a decision to proceed?

Next Steps

- Gather feedback from interested communities
- Complete draft analysis of 100RE default for selected communities
- Review findings with communities and EBCE