



# Briefing on Community Choice Electric Providers

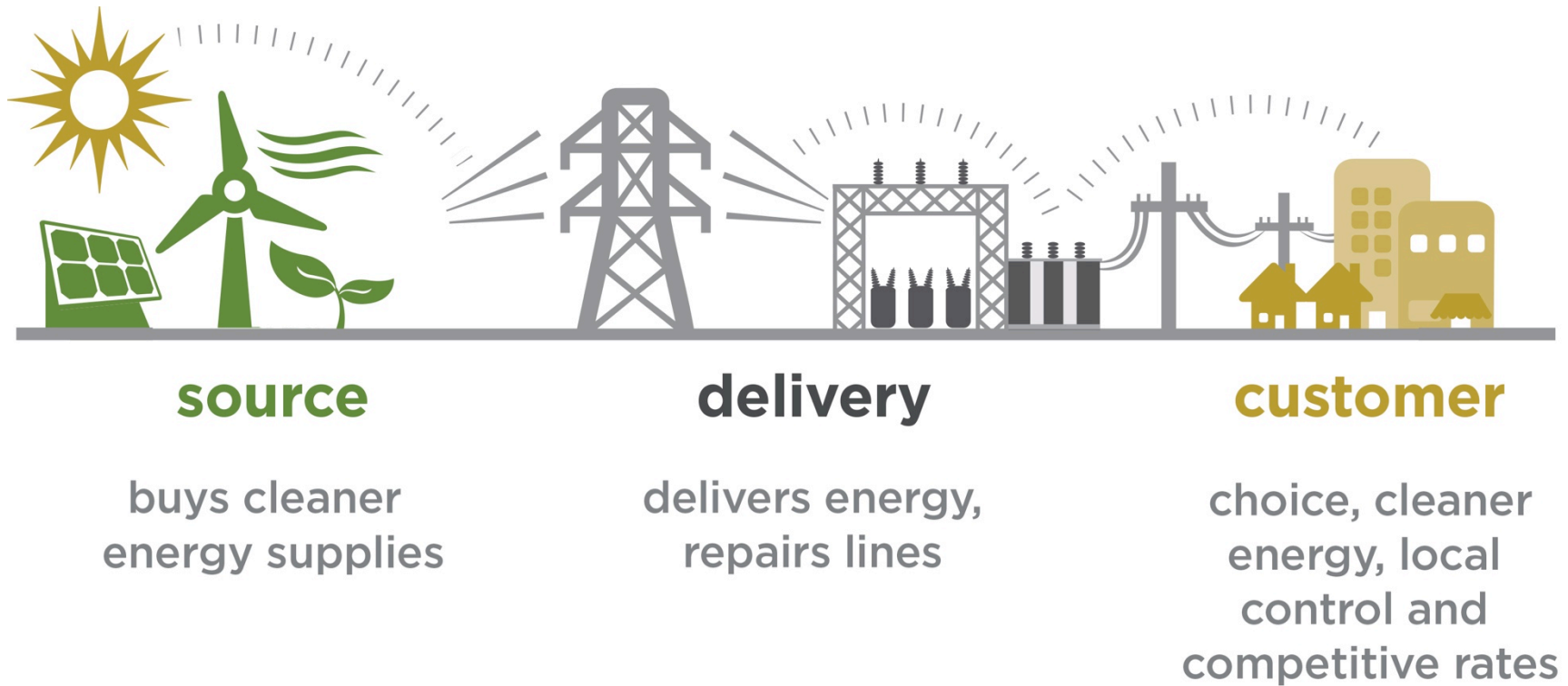
California State Capitol Room 437

January 26, 2017

## **CCAs Created by the Legislature**

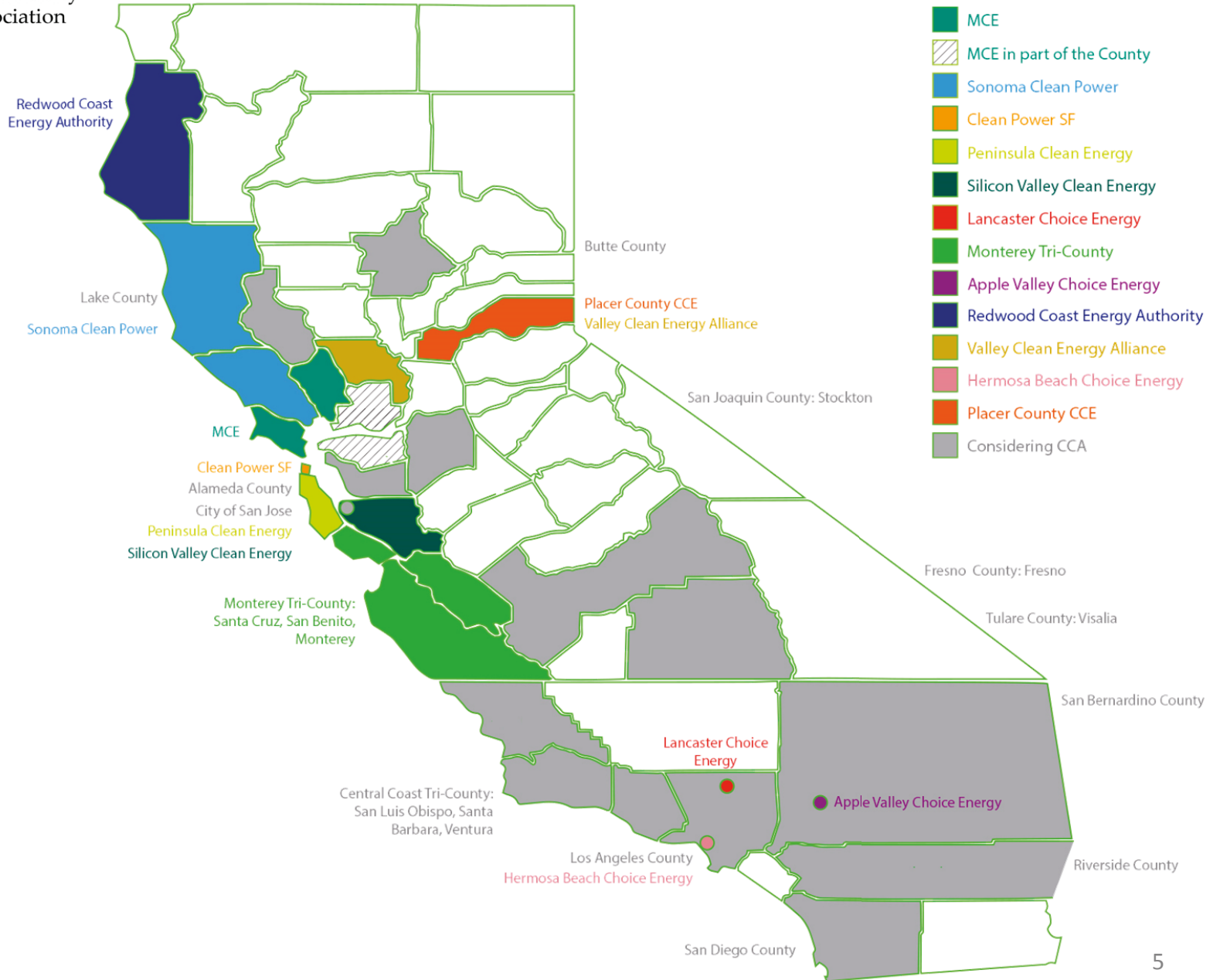
- 2000 Energy Crisis prompted interest in greater transparency and local control
- AB 117 (2002, Migden): enabled energy choice through local government-based entities
- SB 790 (2011, Leno): established a CCA ‘bill of rights’ and allowed CCAs to administer efficiency programs

# How Community Choice Works



# Operating Programs

CalCCA Members	Customer Accounts	Peak Load	Minimum RPS (2017)	Uses Unbundled RECs?	Annual Load 2016 GWh	Annual Load Projected 2017 GWh
MCE	255,000	520 MW	55%	3% or less	2,102	2,743
Sonoma Clean Power	235,000	512 MW	43%	None	2,330	2,550
Lancaster Choice Energy	52,000	132 MW	35%	8%	590	595
CleanPowerSF	73,000	93 MW	35%	None	220	520
Peninsula Clean Energy	300,000	660 MW	50%	None	n/a	3,800
CalCCA Member Totals	915,000	1,917 MW	48% (avg)	1% (avg)	n/a	10,208



## Programs Launching in 2017

<b>CalCCA Members</b>	<b>Customer Accounts</b>	<b>Annual Load (GWh)</b>	<b>Minimum RPS</b>	<b>Uses Unbundled RECs?</b>
Apple Valley Choice Energy	29,000	235*	35%	8%
Silicon Valley Clean Energy	243,000	2,600*	50%	None
Redwood Coast Energy Auth.	60,000	730*	37%	None
<b>Totals</b>	<b>332,000</b>	<b>3,565</b>	<b>46% (avg)</b>	<b>&lt;1% (avg)</b>

\*Represents a partial year due to enrollment process

# Building California Renewables

- Over \$1 billion in construction to date
- Majority of spending on projects with project labor agreements
- Constructing renewables quickly
- Takes 3-4 years to create a diverse long-term portfolio



## Customer Serving Rates

- All low-income ratepayers continue to receive discounts
- Preferred net metering rates
- Rates set to minimize impact of IOU fees and guard against rate shock
- Local boards made up of elected officials who are ratepayers

# Customer Serving Programs

- Responsive to local needs
  - Low-income retrofits
  - Electric vehicle focus (incl. CARE customers)
  - Fuel switching
- Rapid development (3-12 months to deploy)
- Low cost to implement programs



## Customer Value

- Public transparency, open meetings
- Important new voice advocating for lower costs at the CPUC
- Competitive rates across all programs
- Responsive to local needs

# Serving Low-Income Customers

	Lancaster Choice Energy	Clean PowerSF	Peninsula Clean Energy	MCE	Sonoma Clean Power
% CARE customers by account	46%	14.1% <sup>1</sup>	18.6% <sup>1</sup>	16.1%	18%
% CARE customers by MWh	25%	NA	NA	6.4%	16%

<sup>1</sup> Eligible CARE accounts, CCA enrollment not yet completed in service area

# Customer Value for Low-Income Customers



- Offers higher rooftop solar incentives for low income customers.



- partners with Property Assessed Clean Energy (PACE) providers, such as California HERO and California First, focusing on low-income households

# Customer Value for Low-Income Customers



- \$1.7 M/year for Low-income Tenants & Families (LIFT) energy efficiency
- \$80,000 allocated for low-income solar rebates for 150 solar installations
- 2 Richmond solar Feed-in Tariff installations built with 85% minority workers, 30% with a history in the justice system



- Electric vehicle purchase and lease discounts for CARE customers
- PACE financing for home retrofits and solar
- Free DIY Toolkit for home efficiency retrofits available in all public libraries

## Regulatory Structure

- CCAs must procure all energy and resource adequacy for customers
- Adhere to CAISO requirements and subject to imbalance fees
- Adhere to CEC product labeling and load forecasting requirements
- Subject to RPS compliance, energy storage, tree mortality (biomass), etc.
- Subject to CPUC for State-mandated reliability and technology requirements. For rates and practices that exceed State minimums, local board decides.

## Regulatory Issues

- CCA paradigm means there is a need for more vigilance to protect against IOU shifting cost recovery from generation to delivery
- Customer fees ensure IOUs remaining customers do not pay more, but...
  - Concerns about cost shifting onto CCA customers
  - Lack of transparency relating to calculation of fees (most data is confidential and very difficult to audit)

## Problems with the PCIA

- The calculation of the PCIA is not transparent
- Customers should only pay for the benefits they receive
- PCIA volatility causes rate shock for customers
- PCIA cost recovery lasts too long to create a reason for IOUs to compete
- There is a lack of flexibility regarding how CCAs can protect customers by repaying the PCIA



## Contact Us

CalCCA is your single point of contact for reaching the entire community choice industry

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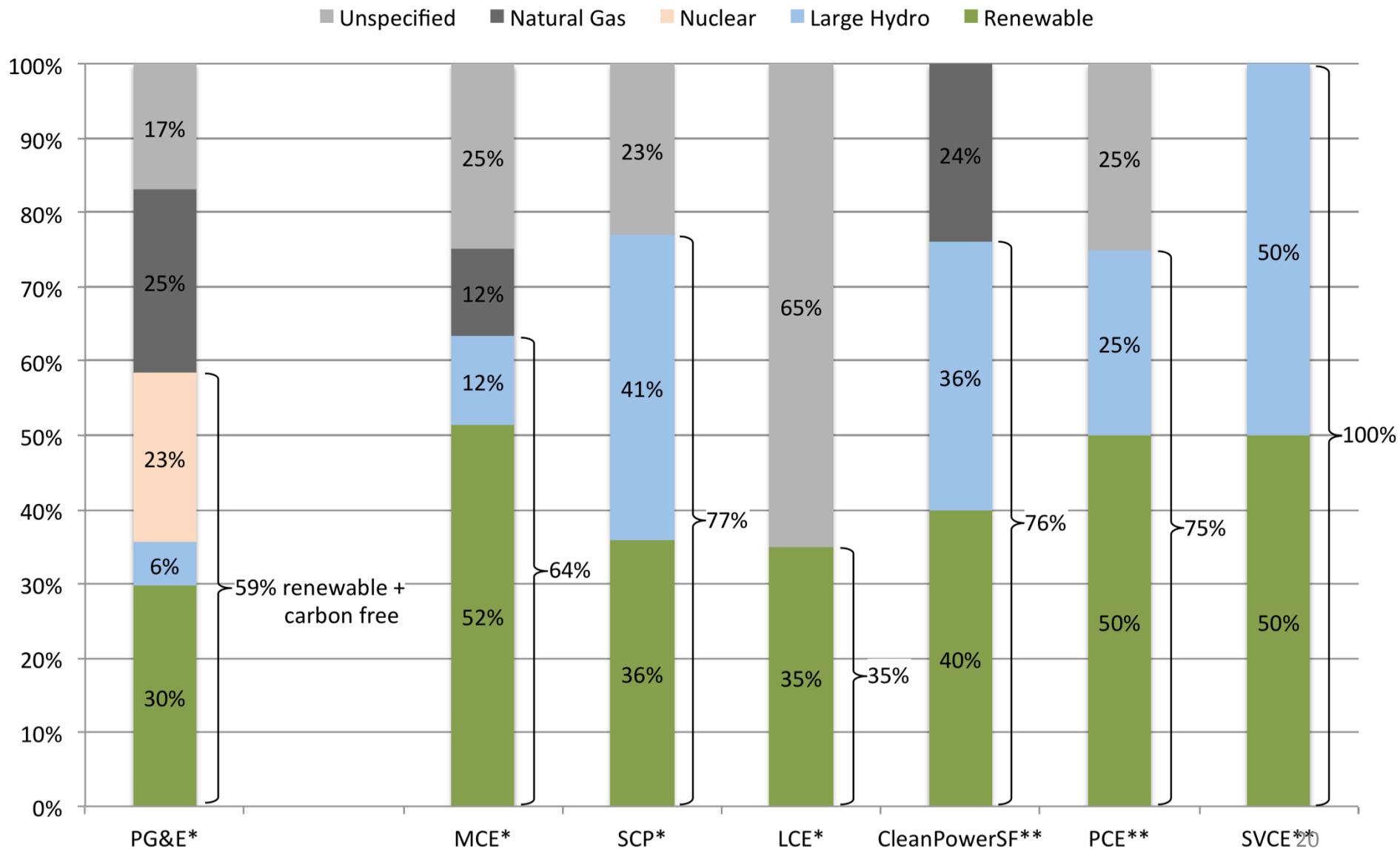
**(916) 661-5365**

# Appendix

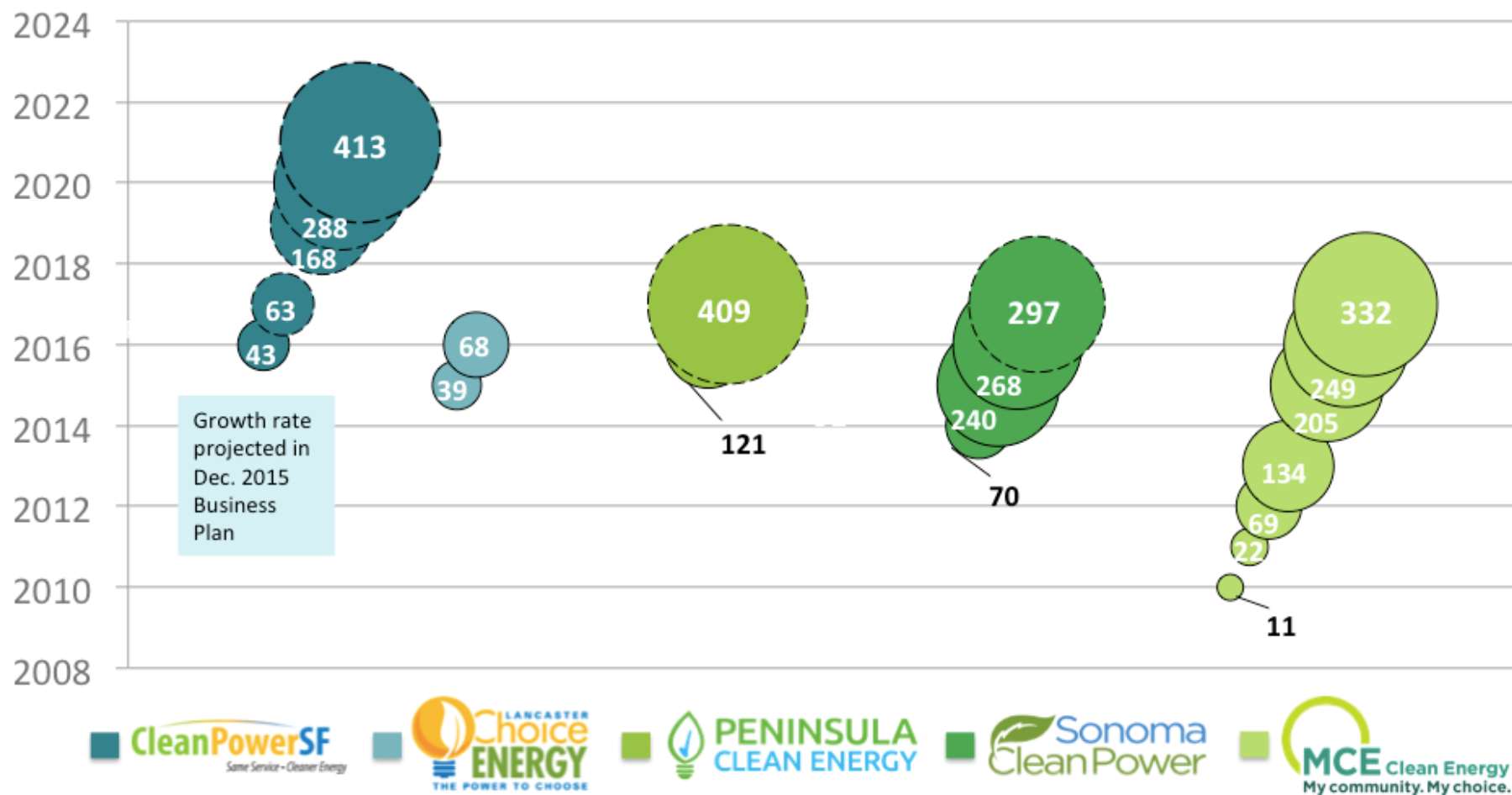
## CCA Construction of New California Renewables as of January 2017

	Project Size (MW)	Resource	Resource Provider/Project Name	Location	Service Start Date	Contract Length (Years)
<b>MCE</b>	1	Solar	San Rafael Airport	San Rafael, Marin Co.	2012	20
	1.6	Biogas	G2 Energy / Hay Road Landfill	Vacaville, Solano Co.	2013	18
	4.8	Biogas	Genpower / Lincoln Landfill	Lincoln, Placer Co.	2013	20
	1.9	Biogas	G2 Energy / Ostrom Road Landfill	Wheatland, Yuba Co.	2013	18
	1	Solar	Dominion / Buck Institute of Research on Aging	Novato, Marin Co.	2016	25
	0.3	Solar	Rawson, Blum & Leon / Cost Plus Plaza	Larkspur, Marin Co.	2016	20
	1	Solar	North Shore Solar Partners / Freethy Industrial Pk. #1	Richmond, Contra Costa Co.	2016	20
	1	Solar	North Shore Solar Partners / Freethy Industrial Pk. #2	Richmond, Contra Costa Co.	2016	20
	0.5	Solar	REP Energy / Cooley Quarry	Novato, Marin Co.	2017	20
	1	Solar	REP Energy / Cooley Quarry	Novato, Marin Co.	2017	20
	3.6	Biogas	Waste Management / Redwood Landfill	Novato, Marin Co.	2017	20
	10.5	Solar	MCE / Solar One	Richmond, Contra Costa Co.	2017	25
	20	Solar	Dominion / RE Kansas Solar	Stratford, Kings Co.	2015	3
	23	Solar	Dominion / Cottonwood Solar	Stratford, Kings Co.	2015	25
	99	Wind	EDP Renewables / Rising Tree III	Mojave, Kern Co.	2015	3.5
	30	Solar	Recurrent Energy / Mustang Solar Power Project	Lemoore, Kings Co.	2018	15
	100	Solar	Recurrent Energy / Tranquillity 8	Tranquillity, Fresno Co.	2018	15
	105	Solar	sPower / Antelope Expansion 2	Lancaster, Los Angeles Co.	2018	20
	42	Wind	Terra-Gen / Voyager Wind III	Mojave, Kern County	2018	12
	125	Wind	Terra-Gen / Los Banos Wind	Los Banos, Merced Co.	2018	12
	40	Solar	First Solar / Little Bear Solar	Mendota, Fresno Co.	2020	20
	80	Solar	EDF Renewables / Desert Harvest	Desert Center, Riverside County	2020	20
<b>SCP</b>	1	Solar	Cloverdale Soventix	Cloverdale, Sonoma Co.	2017	20
	1	Solar	VacaSolar Millenium	Petaluma, Sonoma Co.	2017	20
	1	Solar	Petaluma Solar Millenium	Petaluma, Sonoma Co.	2017	20
	12.5	Solar	Pristine Sun LLC	Multiple sites, Sonoma County	2017	20
	70	Solar	Recurrant	Lemoore, Kings County	2016	20
	46	Wind	Golden Hills / NextEra	Livermore, Alameda County	2018	20
<b>LCE</b>	10	Solar	sPower / Western Antelope Dry Ranch	Lancaster, Los Angeles County	2016	20

## Snapshot of CCA Portfolios in 2016 (or forecast for 2017 for new programs)



## CCA Program Growth and Development (Average Annual MW Served)



## CCA Customer Program Elements (as of January 2017)

	CleanPowerSF	Lancaster Choice Energy	Peninsula Clean Energy	MCE	Sonoma Clean Power
Balanced Payment Plan	<i>In development</i>	✓			<i>In development</i>
Battery Storage Rate				✓	
Customer Load Shifting				✓	✓
Demand Response			<i>In development</i>	<i>In development</i>	✓
Electric Vehicle (EV) Rate	✓	✓	✓	✓	✓
EV Bus Program	✓	✓			
EV Incentives					✓
EV Load Shifting				✓	✓
Energy Efficiency (EE)		<i>In development</i>		✓	✓
Low-Income & Multifamily EE				✓	
Feed-In Tariff	<i>In development</i>		<i>In development</i>	✓	✓
Fuel Switching Gas to Electric				✓	✓
Low Income Solar Incentives	✓			✓	
Net Energy Metering	✓	✓	✓	✓	✓
On Bill Repayment	<i>In development</i>			✓	<i>In development</i>

## CCA Compliance Requirements

Report	Frequency	Entity
Resource Adequacy (Load Forecast-Year Ahead)	Annual	CEC/CPUC
Resource Adequacy (Compliance Demonstration: System, Local, Flexible)	Monthly	CPUC
Resource Adequacy (Year Ahead Compliance Demonstration Local/System)	Annual	CEC/CPUC
Resource Adequacy (Historical Load Data)	Annual	CEC
Resource Adequacy (Price Data Request)	As Requested	CPUC
Resource Adequacy (Load Forecast Updates)	As Needed	CEC
IEPR-Demand Forecast	Biennial	CEC
IEPR-Resource Plans Update	Biennial	CEC
Power Source Disclosure	Annual	CEC
QFER 1306B	Quarterly	CEC
Officer Certification	Annual	CAISO

Report	Frequency	Entity
Annual Retail Sales Report	Annual	CARB
Wind Power Purchases-Form 1386	Quarterly	CEC
RPS Report	Annual	CPUC
RPS Closing Report	As Requested	CEC/CPUC
EIA 826	Monthly	FERC
EIA 861	Annual	FERC
WREGIS REC Retirement Report	Annual	WREGIS
AMI Data Privacy Audit	Triennial	CPUC
AMI Data Privacy Report	Annual	CPUC
Energy Storage Tier 2 Advice Letter	Biennial	CPUC
GHG Emission Performance Standard Advice Letter	Annual	CPUC

\*This table provides a sample of CCA compliance obligations, and is not complete.

## 2015 POWER CONTENT LABEL

ENERGY RESOURCES		Power Mix	2015 CA Total Mix**
<b>Eligible Renewable</b>		<b>30%</b>	<b>22%</b>
Biomass & biowaste		4%	3%
Geothermal		5%	4%
Eligible hydroelectric		1%	1%
Solar		11%	6%
Wind		8%	8%
<b>Coal</b>		<b>0%</b>	<b>6%</b>
<b>Large Hydroelectric</b>		<b>6%</b>	<b>5%</b>
<b>Natural Gas</b>		<b>25%</b>	<b>44%</b>
<b>Nuclear</b>		<b>23%</b>	<b>9%</b>
<b>Other</b>		<b>0%</b>	<b>0%</b>
<b>Unspecified sources of power*</b>		<b>17%</b>	<b>14%</b>
<b>TOTAL</b>		<b>100%</b>	<b>100%</b>

\* "Unspecified sources of power" means electricity from transactions that are not traceable to specific generation sources.

\*\* Percentages are estimated annually by the California Energy Commission based on the electricity sold to California consumers during the previous year.

For specific information about this electricity product, contact:

**Pacific Gas and Electric**

415-973-0640

California Energy Commission

For general information about the Power Content Label, consult:

1-844-217-4925

<http://www.energy.ca.gov/pcl/>

# HELLO CHANGEMAKER

Your energy has made a difference!

MCE CUSTOMERS LIKE YOU PLAY AN IMPORTANT ROLE  
IN IMPROVING OUR ENVIRONMENT

Light Green  
**50% renewable homes**



**561 lbs** of polluting  
greenhouse gas emissions  
**eliminated** in a year\*

That's like avoiding  
610 miles in traffic!\*\*

Deep Green  
**100% renewable homes**



POLLUTION FREE

**2,417 lbs** of polluting  
greenhouse gas emissions  
**eliminated** in a year\*

That's like avoiding  
2,628 miles in traffic!\*\*

\* Based on a typical residential usage of 5,556 kilowatt-hours/year and the most recently reported greenhouse gas (GHG) emission factors for MCE and PG&E.

\*\* Based on the EPA's GHG equivalencies: [epa.gov/energy/greenhouse-gas-equivalencies-calculator](http://epa.gov/energy/greenhouse-gas-equivalencies-calculator)



1125 Tamalpais Avenue  
San Rafael, CA 94901

Stay in touch: [@mceCleanEnergy](https://twitter.com/mceCleanEnergy)



**IMPORTANT:** You are receiving this notice because on December 31, 2015 you were an MCE customer. Receiving this notice does not mean that you are currently an MCE customer.



Printed on recycled paper with soy ink.

Together we're creating a cleaner energy future for California.

POWER CONTENT LABEL

ENERGY RESOURCES	2015 MCE LIGHT GREEN POWER MIX	2015 MCE DEEP GREEN POWER MIX	2015 CA POWER MIX** (for comparison)
Eligible Renewable	52%	100%	22%
Biomass & biowaste	5%	0%	3%
Geothermal	2%	0%	4%
Eligible hydroelectric	4%	0%	1%
Solar	5%	25%	6%
Wind	36%	75%	8%
Coal	0%	0%	6%
Large Hydroelectric	12%	0%	5%
Natural Gas	12%	0%	44%
Nuclear	0%	0%	9%
Other	0%	0%	0%
Unspecified sources of power*	25%	0%	14%
TOTAL	100%	100%	100%

\* "Unspecified sources of power" means electricity from transactions that are not traceable to specific generation sources.

\*\* Percentages are estimated annually by the California Energy Commission based on the electricity sold to California consumers during the previous year.

For specific information about these electricity products, contact **MCE** at **1 (888) 632-3674** or **info@mceCleanEnergy.org**. For general information about the Power Content Label, contact the California Energy Commission at 1 (844) 421-6229 or [www.energy.ca.gov/pcl](http://www.energy.ca.gov/pcl).



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average household

**1/2**

of the premium  
is reinvested in building  
local solar projects

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1 (888) 632-3674  
[info@mceCleanEnergy.org](mailto:info@mceCleanEnergy.org)

# EverGreen

## 100% Local Renewable Power

EverGreen is Sonoma Clean Power's optional premium service. It is 100% renewable geothermal energy generated right here in Sonoma County, with local solar being added to the mix in 2017.

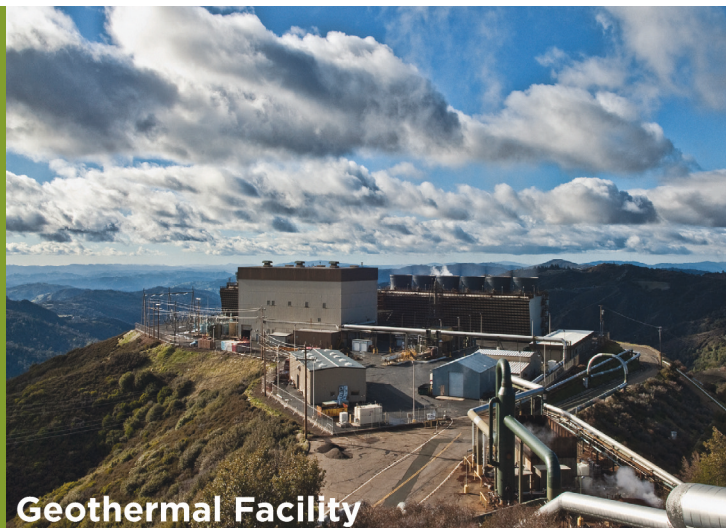
EverGreen's premium costs 2.5¢ per kilowatt-hour or about \$13 more per month for the average residential customer compared to the cost of CleanStart (SCP's default service).

### EverGreen Benefits:

- Supports our local economy by keeping millions of dollars circulating in Sonoma County since SCP's inception
- Supports our local renewable power industry
- Supports a clean energy future for Sonoma County

Show your commitment to pioneering a clean energy economy by signing up for EverGreen today.

For more information please call us at 1 (855) 202-2139 or visit [sonomacleanpower.org/evergreen](http://sonomacleanpower.org/evergreen).



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# Leading California to a Cleaner Tomorrow



2015 POWER CONTENT LABEL			
ENERGY RESOURCES	SCP CleanStart	SCP EverGreen	2015 CA Power Mix**
Eligible Renewable	36%	100%	22%
Biomass & waste			3%
Geothermal	9%	100%	4%
Small hydroelectric			1%
Solar			6%
Wind	28%		8%
Small			6%
Large Hydroelectric	41%		5%
Natural Gas			44%
Nuclear			9%
Other			0%
Unspecified sources of power*	23%		14%
TOTAL	100%	100%	100%
*Unspecified sources of power" means electricity from transactions that are not traceable to specific generation sources.			
**Percentages are estimated annually by the California Energy Commission based on the electricity sold to California consumers during the previous year.			
For specific information about this electricity product, contact:	<b>Sonoma Clean Power Authority</b> 1-855-202-2139		
For general information about the Power Content	California Energy Commission 1-844-217-4925		

## Power Content Label reflects 2015 actual electric resources for Sonoma Clean Power.

This information is required by the California Energy Commission to be mailed to any customer that took service from Sonoma Clean Power in 2015 and active Sonoma Clean Power customers.

The generation data represents 2015 and is provided in the “Annual Report to the California Energy Commission: Power Source Disclosure Program.”

A significant portion of Sonoma Clean Power’s energy comes from clean, large hydroelectric power stations. Under California law, large hydroelectric power stations do not qualify as eligible renewable resources.

Percentages may not total 100% due to rounding.



# A year of service, a year of results.



**\$48 million**  
in customer on-bill savings for 2015



**2 billion**  
kilowatt-hours of clean energy delivered



**195,183**  
CleanStart household and business accounts served



**\$690,000**  
in payments to customers for making extra solar energy in 2015



**1,085**  
EverGreen household and business accounts served