



MCE Napa County

Cleaner energy and lower rates



Honig Winery, Rutherford



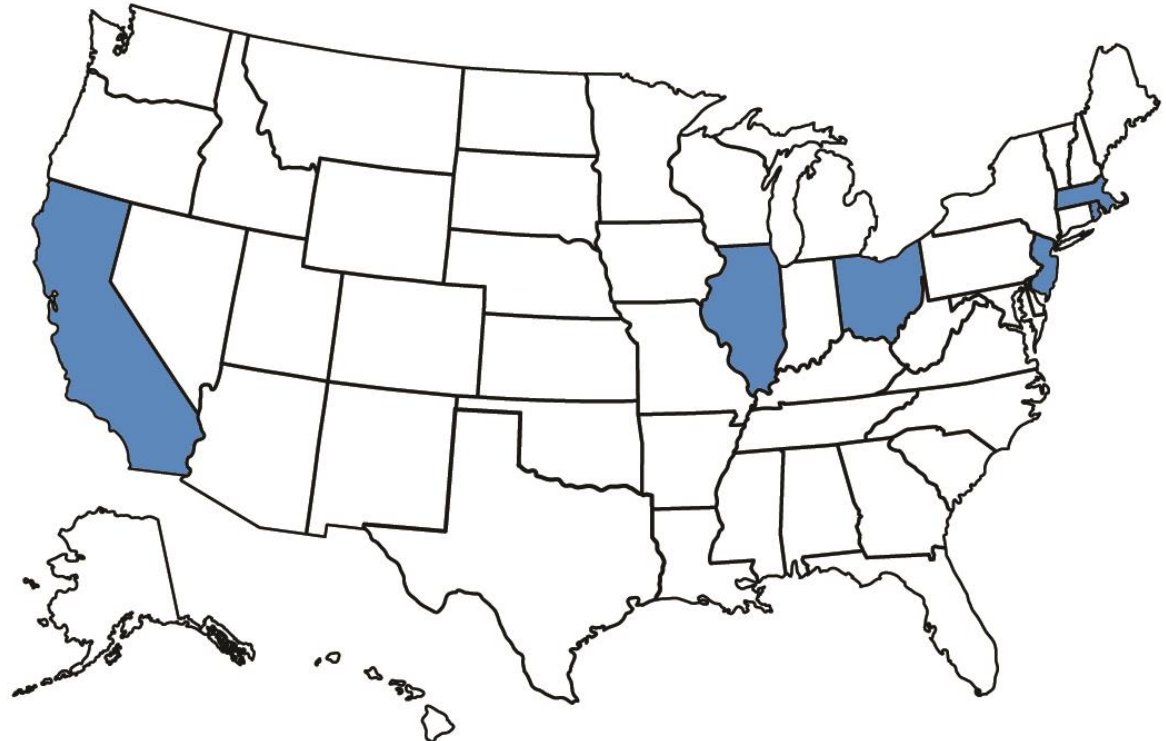
Item	Rate	Usage	Amount
KWH x 0008200	0.008200	160.69	1.31
KWH x 0014300	0.014300	76.08	1.09
KWH x 0041200	0.041200	4.73 CR	0.19
KWH x 0055200	0.055200	5.61 CR	0.31
5% x 0003900	0.039000	1.07	0.41
Meter Multiplier		1.96	0.27
Billing Usage		2.024	0.80
FORWARD			\$260.63
CURRENT CHARGE			\$260.63

Public Power by Community Choice

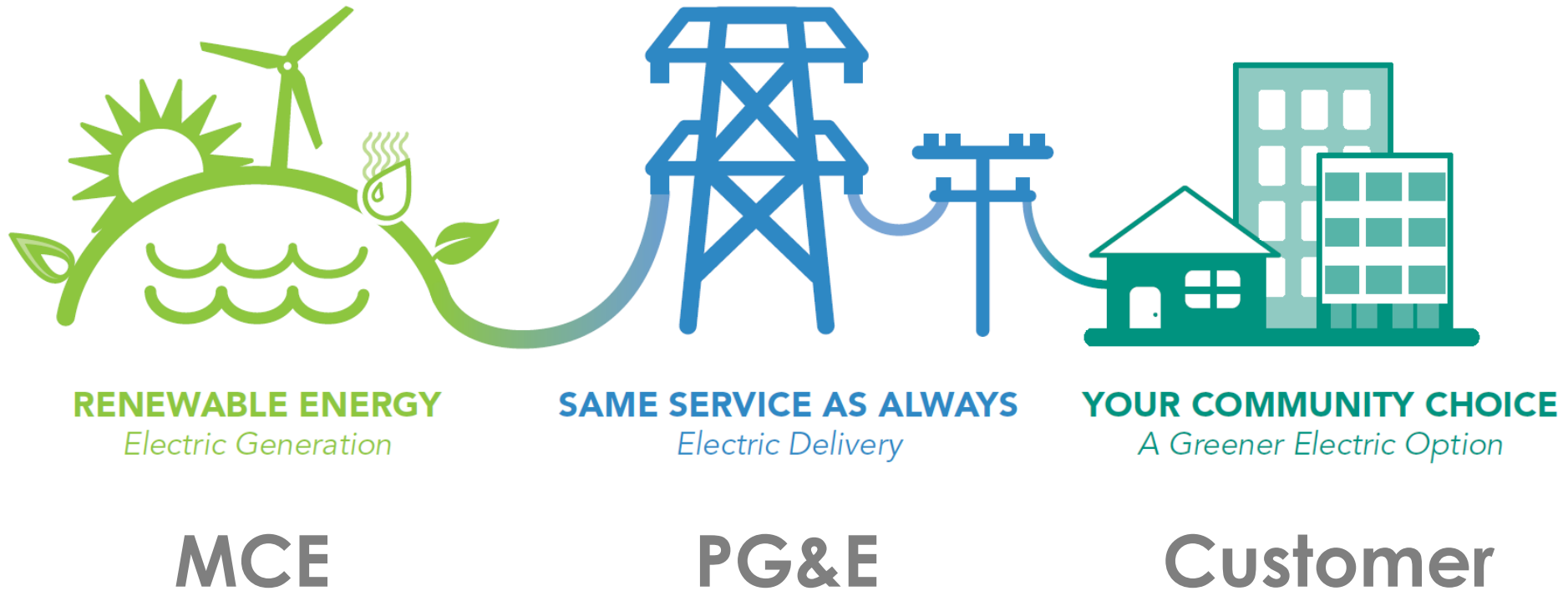
Communities collectively purchase electricity as an alternative to investor-owned utility power supply

Community Choice in 6 States

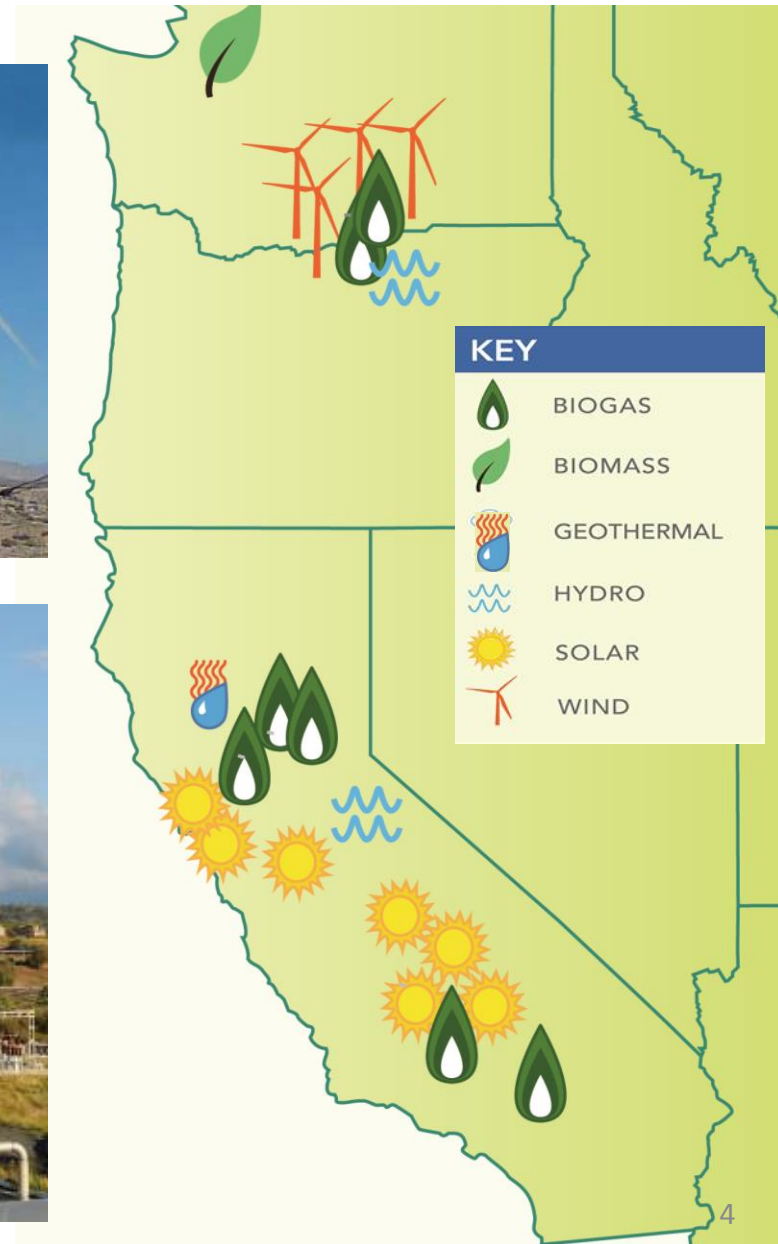
- California
- Illinois
- Massachusetts
- New Jersey
- Ohio
- Rhode Island



How We Work with PG&E



MCE Power Sources 2010 - 2014



About MCE

2008

- Marin Clean Energy formed

2010

- Customer service start

165,000 customers

- Customers served by mid-2015 (including Marin County, Unincorporated Napa County, Richmond, San Pablo, Benicia and El Cerrito)

131 million lbs of greenhouse gas reductions

\$5.9 million customer savings in 2014



MCE Board of Directors

15-Member Board of Directors (including San Pablo and Unincorporated Napa County)

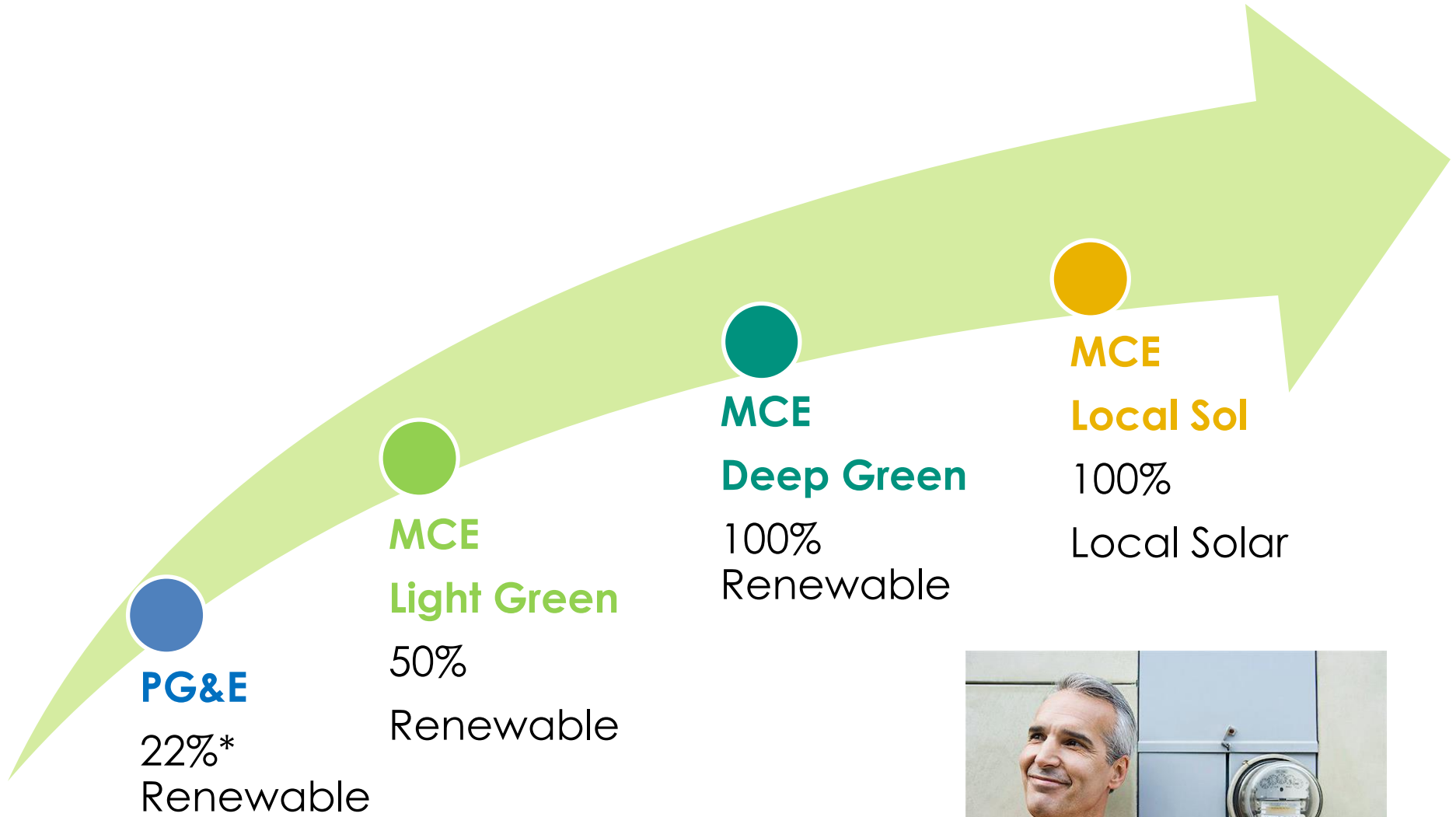
Local government elected officials

Public oversight of rates, power sources and policies

Report to California Public Utilities Commission, California Energy Commission, and customers



Customer Choice



*Most recently reported by PG&E



Residential Cost Comparison

Example Monthly Residential Electric Charges*	PG&E	MCE Light Green	MCE Deep Green	MCE Local Sol
PG&E Electric Delivery (all customers)	\$36.46	\$36.46	\$36.46	\$36.46
Electric Generation (all customers)	\$45.12	\$36.58	\$41.21	\$65.75
Additional PG&E Fees (MCE customers only)	-	\$5.71	\$5.71	\$5.71
Average Total Cost	\$81.58	\$78.75	\$83.38	\$107.92

*The above comparison is based on a typical usage of 463 kWh at 1/12/15 rates under the Res-1/E-1 rate schedule. Costs shown are an average of summer and winter rates; actual differences may vary depending on usage, rate schedule and other factors.

**Most recently reported by PG&E.

- Delivery rates stay the same
- Generation rates vary by service option
- PG&E adds exit fees on CCA customer bills
- Even with exit fees, total cost for Light Green is less than PGE

*Most recently reported by PG&E

Sample Bills



ENERGY STATEMENT

www.pge.com/MyEnergy

Account No: 1234567890-1

Statement Date: 10/01/2013

Due Date: 10/22/2013

Service For:

MARY SMITH
1234 STREET AVENUE
SAN RAFAEL, CA
94804

Your Account Summary

Amount Due on Previous Statement	82.85
Payments Received Since Last Statement	82.85
Previous Unpaid Balance	\$0.00
Current PG&E Electric Delivery Charges	\$39.32
MCE Electric Generation Charges	\$42.81
Current Gas Charges	\$27.20
Total Amount Due	\$109.33

Questions about your bill?

24 hours per day, 7 days per week
Phone: 1-866-743-0335
www.pge.com/MyEnergy

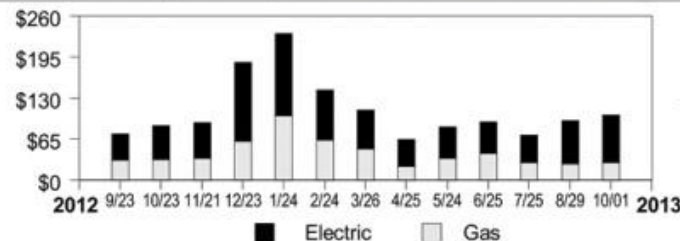
Local Office Address

750 LINDARO STREET, STE 160
SAN RAFAEL, CA 94901

Total Amount Due \$109.33

Monthly Billing History

Daily Usage Comparison



1 Year Ago Period: 9.66
Last Period: 12.27
Current Period: 12.28

Electric kWh / Day

0.83 0.75 0.75

Gas Therms / Day

Visit www.pge.com/MyEnergy for a detailed bill comparison

Important Messages

Your charges on this page are separated into delivery charges from PG&E and generation or procurement charges from an energy provider other than PG&E. These two charges are for different services and are not duplicate charges.

Commercial Cost Comparison

Example Monthly Commercial Electric Charges*	PG&E	MCE Light Green	MCE Deep Green	MCE Local Sol
22% ** Renewable Energy	50% Renewable Energy	100% Renewable Energy	100% Local Solar	
PG&E Electric Delivery (all customers)	\$136.06	\$136.06	\$136.06	\$136.06
Electric Generation (all customers)	\$122.75	\$95.59	\$107.69	\$171.82
Additional PG&E Fees (MCE customers only)	-	\$13.31	\$13.31	\$13.31
Average Total Cost	\$258.81	\$244.96	\$257.06	\$321.19

*The above comparison is based on a typical usage of 1210 kWh at 1/12/15 rates under the Com-1/A-1 rate schedule. Costs shown are an average of summer and winter rates in baseline territory X with gas heating; actual differences may vary depending on usage, rate schedule and other factors.

**Most recently reported by PG&E.

- Delivery rates stay the same
- Generation rates vary by service option
- PG&E adds exit fees on CCA customer bills
- Even with exit fees, total cost for Light Green is less than PGE


*Most recently reported by PG&E

Average Napa Customer Annual Savings



Based on MCE Light Green 50% renewable rates and PG&E rates effective December 2014

\$5.9 million savings in 2014



Not-for-profit, public agency



No shareholders



Community benefits

MCE Local Development

MCE Local Power Resources, 2012 – 2015



Map information accurate as of 10/06/14

Local Generation Opportunities

- **Feed In Tariff (FIT)** – a standard offer 20 year contract for renewable projects <1 MW located within MCE's service territory
- **Net Energy Metering (NEM)** – MCE serves 3,800 rooftop solar customers, totaling 35.2 MW



Local Programs

- \$4.1 million Energy Efficiency program (funded by Public Goods Charge)
- \$50,000 towards residential solar rebates with priority for low-income customers
- Electric vehicle charging stations
- Tesla pilot program
- Green Home Loan program (On-bill financing)
- Bidgley Home Area Network pilot program



Ruben Pendroza, RichmondBUILD graduate

Deep Green Champions

Deep Green 100% renewable energy is available now.

Enroll online: www.mcecleanenergy.org/dg-enroll/ or call: 1 (888) 632-3674



We have the Power... to help MCE build local solar farms and create new jobs.

Terry Sawyer, Founding Partner
Hog Island Oyster Company, Marshall

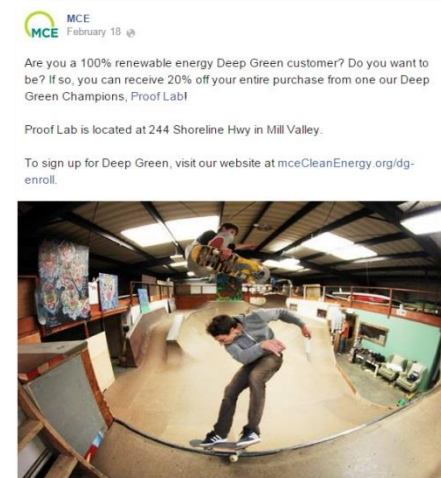
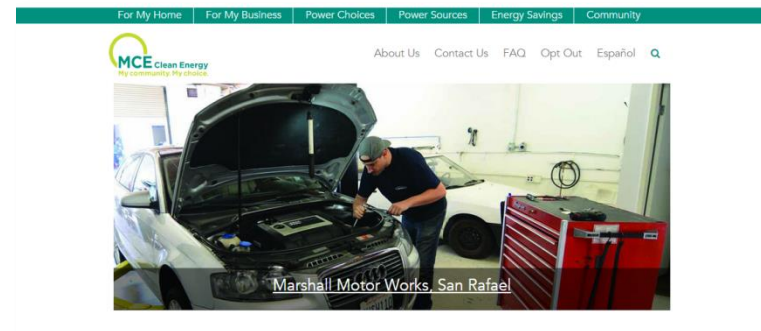


Cleaner power, sourced closer to home.

Our choice to buy clean energy from MCE has helped create demand for 6 new renewable energy projects to be built right here in Marin, and 5 more in Richmond—providing power for up to 11,000 homes each year.

1 (888) 632-3674 | mceCleanEnergy.org

Free marketing
print, email, social media, website



MCE Service Begins February 2015

Napa County Board of Supervisors voted to join MCE in June 2014

Unincorporated Napa service starts in February 2015

- MCE Light Green 50% renewable

Other choices:

- MCE Deep Green 100% renewable
- PG&E 22% renewable

www.mceCleanEnergy.org/NapaCounty

1 (888) 632-3674

Thank you! Questions?

Alex DiGiorgio
MCE Community Development Manager



mceCleanEnergy.org | 1 (888) 632-3674

Additional Reference Slides



mceCleanEnergy.org | 1 (888) 632-3674

MCE's Contracted Power Supply

177
megawatts

- **New, California renewable energy** projects in development

85,000
homes per year

- Powered by MCE's **new California renewable energy** projects

11
local projects

- Electricity to **power up to 11,932 homes per year**

14
suppliers

- Ensure a sufficient **supply of clean and affordable energy**

New Renewable Energy, New Jobs

85,000
homes per year

- Powered by MCE's **new California renewable energy** projects

750,000
hours

- More than 750,000 **union work hours** over 1 year created from new solar projects

131 M
pounds

- MCE **greenhouse gas emission reductions** since 2010

\$515.9 M
committed

- \$353.9 million for **new solar**
- \$44.7 million for **new wind**
- \$117.2 million for **new waste to energy**

Energy Savings Programs

\$4.1 M program funded through Public Purpose Charge

No-cost energy assessments for multifamily properties and businesses

- Valued at \$3,000 - \$5,000

Cash rebates

- Averaging 25-60% of project costs

No-cost direct installs for multifamily tenant units

On-bill financing loans



Feed-In Tariff (FIT)

Prices Shall Apply Under the Following Conditions	Peak Energy Prices (20-year Term, \$/MWh)	Baseload Energy Prices (20-year Term, \$/MWh)	Intermittent Energy Prices (20-year Term, \$/MWh)
Condition 1	\$137.66	\$116.49	\$100.57
Condition 2	\$120.00	\$105.00	\$95.00
Condition 3	\$115.00	\$100.00	\$90.00
Condition 4	\$110.00	\$95.00	\$85.00
Condition 5	\$105.00	\$90.00	\$80.00



San Rafael Airport 972kW Feed in Tariff Project (Condition One)

Value Add for Rooftop Solar

MCE serves 3,800 Net Energy Metering (NEM) customers – over 35.2 MW of rooftop solar

MCE charges for usage at **Light Green** rates

MCE credits monthly excess production at **Deep Green** rates (Light Green rate + \$0.01/kWh)

MCE credits roll over each year instead of zeroing out

Credit totals >\$100 are eligible for full retail value cash-out, not a reduced wholesale rate

MCE charges are billed monthly, reducing potentially large annual “true-up” bills

Agricultural Cost Comparison

Example Monthly Agricultural Electric Charges 672 kWh AG4A	PG&E	MCE Light Green	MCE Deep Green	MCE Local Sol
PG&E Electric Delivery (all customers)	\$131.46	\$131.46	\$131.46	\$131.46
Electric Generation (all customers)	\$59.54	\$48.44	\$55.17	\$95.49
Additional PG&E Fees (MCE customers only)	-	\$6.85	\$6.85	\$6.85
Average Total Cost	\$191.00	\$186.75	\$193.47	\$233.80

- Delivery rates stay the same
- Generation rates vary by service option
- PG&E adds exit fees on CCA customer bills
- Even with exit fees, total cost for Light Green is less than PGE

2013 Electric Power Content Mix

	PG&E	MCE Light Green	MCE Deep Green
Renewable	22%	51%	100%
Bioenergy	4%	6%	0
Geothermal	5%	0	0
Small hydroelectric	2%	12%	0
Solar	5%	<1%	0
Wind	6%	33%	100%
Large Hydroelectric	10%	10%	0
Natural Gas	28%	0	0
Nuclear	22%	0	0
Unspecified	18%	39%	0
TOTAL	100%	100%	100%
2012 GHG Emissions (lbs CO2e/MWh)	445	380	0

Renewable Energy Options

Service Options	2014*		2015*	
	Bundled	Unbundled	Bundled	Unbundled
Light Green (50% Renewable)	24%	27%	30%	21%
Deep Green (100% Renewable)	22%	78%	23%	77%
Local Sol (100% Local Solar)	n/a	n/a	100%	0%

For more information on RECs and their role in tracking renewable energy production for mandatory and voluntary markets, visit the US EPA at:

<http://www.epa.gov/greenpower/gpmarket/rec.htm>

* figures based on best current available data, but may change to meet procurement needs.

A Note About the Electric Grid

Why is MCE's electricity not going directly from the source to my home or office?

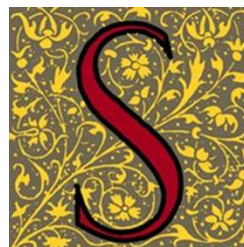
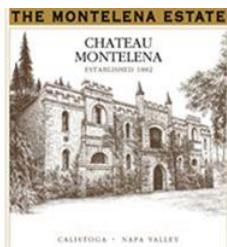
Each building would need a separate wire to get the power directly from the source.

All of the electricity is put onto the same grid where electrons are mixed and flow freely.



Kathmandu, Nepal

Customer-sited Solar Case Studies



- MCE Light Green was **better financially** for the customer in 5 out of 6 Case Studies,
- For those 5 customers annual savings ranged from **\$18 - \$7,030** with MCE
- All are on the **A6/Com-6 NEM** Rate Schedules

Thank you!

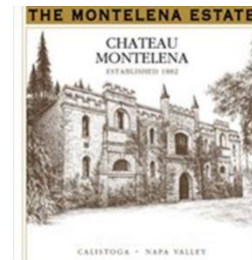
Chateau Montelena, Saintsbury, Far Niente, Nickel and Nickel, and Gopal Shanker (Recolte Energy).

Chateau Montelena - A6/Com-6 NEM

Customer usage (kWh) > solar production (kWh)
 Customer usage charges (\$) > solar production credits (\$)

Customer Annual Bill:

PG&E = \$37,312
 MCE Light Green = \$34,152
 MCE Deep Green = \$36,134



	Summer Peak	Summer Part Peak	Summer Off	Winter Part Peak	Winter Off	Total Usage	PG&E	MCE Light Green	MCE Deep Green
Jan-14				5814	10709	16523	\$ 2,440.01	\$ 2,311.45	\$ 2,476.68
Feb-14				6694	10242	16936	\$ 2,524.51	\$ 2,386.65	\$ 2,556.01
Mar-14				5443	8876	14319	\$ 2,127.49	\$ 2,012.72	\$ 2,155.91
Apr-14				3525	7948	11473	\$ 1,677.87	\$ 1,592.85	\$ 1,707.58
May-14	-326	460	6274			6408	\$ 851.88	\$ 815.24	\$ 882.58
Jun-14	-1869	826	6288			5245	\$ 55.32	\$ 124.10	\$ 195.24
Jul-14	916	3017	7952			11885	\$ 2,500.74	\$ 2,262.57	\$ 2,381.42
Aug-14	3075	4509	12014			19598	\$ 4,747.27	\$ 4,243.15	\$ 4,439.13
Sep-14	3218	5445	16928			25591	\$ 5,799.36	\$ 5,215.52	\$ 5,471.43
Oct-14	5531	7312	19140			31983	\$ 7,964.47	\$ 7,102.50	\$ 7,422.33
Nov-13	1608	4746	9580			15934	\$ 3,602.04	\$ 3,234.53	\$ 3,393.87
Dec-13				8698	11404	20102	\$ 3,020.54	\$ 2,850.65	\$ 3,051.67
						195,997	\$ 37,311.50	\$ 34,151.93	\$ 36,133.85

*Meter charges and Minimum bill charges, which are competitively neutral, are not included.

Based on rates as of 12/5/14

Far Niente - A6/Com-6 NEM

Customer usage (kWh) > solar production (kWh)
 Customer usage charges (\$) > solar production credits (\$)

Customer Annual Bill:

PG&E = \$577
 MCE Light Green = \$3,075
 MCE Deep Green = \$5,768



	Summer Peak	Summer Part Peak	Summer Off	Winter Part Peak	Winter Off	Total Usage	PG&E	MCE Light Green	MCE Deep Green
Jan-14				2172	18108	20280	\$ 2,835.92	\$ 2,719.33	\$ 2,922.13
Feb-14				3057	22777	25834	\$ 3,621.87	\$ 3,470.94	\$ 3,729.28
Mar-14				-3233	15232	11999	\$ 1,533.30	\$ 1,469.48	\$ 1,621.80
Apr-13				-7200	12800	5600	\$ 533.42	\$ 493.97	\$ 621.97
May-13	-4800	-4800	6080	-7040	8960	-1600	\$ (3,141.08)	\$ (2,728.85)	\$ (2,578.45)
Jun-13	-15360	-2080	13600			-3840	\$ (7,484.83)	\$ (6,364.41)	\$ (6,228.41)
Jul-13	-12640	1440	17120			5920	\$ (4,451.06)	\$ (3,660.64)	\$ (3,475.04)
Aug-13	-10080	5600	23520			19040	\$ (917.92)	\$ (508.63)	\$ (217.43)
Sep-13	-11360	4000	17600			10240	\$ (2,954.74)	\$ (2,350.87)	\$ (2,134.87)
Oct-13	-5778	10247	34281			38750	\$ 4,395.36	\$ 4,242.28	\$ 4,687.56
Nov-13	-2575	5429	18781	-1179	5680	26136	\$ 3,277.94	\$ 3,131.31	\$ 3,430.21
Dec-13				6793	16016	22809	\$ 3,328.82	\$ 3,161.59	\$ 3,389.68
						181168	\$ 577.01	\$ 3,075.50	\$ 5,768.43

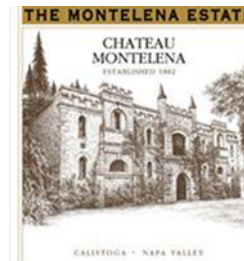
*Meter charges and Minimum bill charges not included. Based on rates as of 12/5/14

Chateau Montelena - A6/Com-6 NEM

Customer usage (kWh) < solar production (kWh)
 Customer usage charges (\$) < solar production credits(\$)

Customer Earns Annually:

PGE = \$1,208
 MCE Light Green = \$8,238
 MCE Deep Green = \$8,199



	Summer Peak	Summer Part Peak	Summer Off	Winter Part Peak	Winter Off	Total Usage	PG&E	MCE Light Green	MCE Deep Green
Jan-14				-1282	126	-1156	\$ (198.73)	\$ (195.29)	\$ (194.03)
Feb-14				-1789	309	-1480	\$ (259.15)	\$ (255.00)	\$ (251.91)
Mar-14				-2455	-1219	-3674	\$ (579.75)	\$ (578.26)	\$ (578.26)
Apr-14				-3068	-1030	-4098	\$ (657.21)	\$ (652.81)	\$ (652.81)
May-14	-1053	-1828	-57			-2938	\$ (1,107.37)	\$ (984.51)	\$ (984.51)
Jun-14	-2203	-679	-646			-3528	\$ (1,555.18)	\$ (1,372.94)	\$ (1,372.94)
Jul-14	-1850	-408	82			-2176	\$ (1,171.30)	\$ (1,021.23)	\$ (1,020.41)
Aug-14	-1785	12	884			-889	\$ (904.14)	\$ (774.85)	\$ (765.89)
Sep-14	-1807	-219	718			-1308	\$ (1,002.81)	\$ (865.11)	\$ (857.93)
Oct-14	-1436	-609	1098			-947	\$ (835.68)	\$ (719.98)	\$ (709.00)
Nov-13	-915	-984	666			-1233	\$ (696.32)	\$ (608.44)	\$ (601.78)
Dec-13				-1286	60	-1226	\$ (213.72)	\$ (209.76)	\$ (209.55)
						-24653	\$ (9,181.37)	\$ (8,238.19)	\$ (8,199.03)

*Meter charges and Minimum bill charges not included. Based on rates as of 12/5/14

*Because the customer produces more kilowatt hours than they consume, customer is eligible for PG&E's current net surplus compensation rate (24,653kWh * \$.049 = \$1,208)

Nickel and Nickel - A6 NEM

Customer usage (kWh) > solar production (kWh)

Customer usage charges (\$) < solar production credits (\$)

Customer Earns Annually:

PGE = \$0
 MCE Light Green = \$3,295
 MCE Deep Green = \$872



	Summer Peak	Summer Part Peak	Summer Off	Winter Part Peak	Winter Off	Total Usage	PG&E	MCE Light Green	MCE Deep Green
Jan-14				5280	20000	25280	\$ 3,617.46	\$ 3,450.77	\$ 3,703.57
Feb-14				960	16960	17920	\$ 2,475.20	\$ 2,380.14	\$ 2,559.34
Mar-14				-3040	13440	10400	\$ 1,321.35	\$ 1,265.64	\$ 1,400.04
Apr-14				-7200	13280	6080	\$ 598.90	\$ 557.11	\$ 689.91
May-14	-7040	-3040	8000	-2880	7680	2720	\$ (3,165.70)	\$ (2,644.70)	\$ (2,487.90)
Jun-14	-18080	-3200	6080			-15200	\$ (10,464.30)	\$ (9,054.86)	\$ (8,994.06)
Jul-14	-15520	-1120	12960			-3680	\$ (7,415.49)	\$ (6,300.56)	\$ (6,170.96)
Aug-14	-3200	5760	27360			29920	\$ 3,683.00	\$ 3,533.75	\$ 3,864.95
Sep-14	-10880	4000	13280			6400	\$ (3,308.44)	\$ (2,709.39)	\$ (2,536.59)
Oct-14	-9600	6720	24000			21120	\$ (270.21)	\$ 61.58	\$ 368.78
Nov-13	-3680	3200	15360	1760	8800	25440	\$ 2,461.52	\$ 2,456.63	\$ 2,747.83
Dec-13				4640	22720	27360	\$ 3,880.70	\$ 3,709.22	\$ 3,982.82
						153760	\$ (6,586.01)	\$ (3,294.65)	\$ (872.25)

*Meter charges and Minimum bill charges not included. Based on rates as of 12/5/14