

# CLEAN ENERGY COMMUNITY ADVISORY COMMISSION

11.12.2019

★ NET ENERGY METERING  
PROGRAM

★ 2020 POWER MIX



# NET ENERGY METERING

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- Net Energy Metering is an electric utility program that addresses compensation for energy exported to the grid by customer-sited generation resources, most commonly rooftop solar.
- When customer-sited generators produce more energy than they need to consume at any given moment, the electricity will flow back onto the grid.
  - Customers receive a “credit” for exported power.
  - Credits can be applied to offset charges for future energy consumption.



Energy you  
**PRODUCE**



Energy you  
**CONSUME**



**NET  
ENERGY**

# SJCE'S NET ENERGY METERING PROGRAM

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## Billing

- Annual “true-up” billing system; identical to that offered through PG&E.
  - Credits are “trued-up” annually; NEM credits and generation charges are netted out.
  - Customers receive a monthly NEM statement displaying YTD generation credits/ charges.
  - Customers that export more electricity than they consume over the course of a year will receive compensation for the net surplus generation.
  - SJCE offers a 25% premium on PG&E’s Net Surplus Compensation (NSC) rate.
    - Set annually based on average of PG&E’s monthly NSC rates for the previous calendar year.

## Enrollment

- SJCE will enroll NEM customers in quarterly phases throughout 2020-21.
  - First enrollment in April 2020. Customer enrollment phase based upon current PG&E true-up date.
  - Aligning SJCE enrollment date and PG&E true-up date minimizes customer confusion and the potential loss of credits.



# ENERGY STATEMENT

www.pge.com/MyEnergy

Statement Date: 10/21/2019

Due Date: 11/12/2019

## Summary of Your NEM Year-to-Date (YTD) Charges

Rate Schedule: EVA Residential Whole House Service Electric Vehicles

## Summary of NEM Charges

Bill Period End Date	Net Peak Usage (kWh)	Net Part Peak Usage (kWh)	Net Off Peak Usage (kWh)	Net Usage (kWh)	Estimated NEM Charges Before Taxes	Estimated Taxes	Estimated Total NEM Charges
04/15/2019	-65	-36	312	211	\$12.49	\$0.78	\$13.27
05/14/2019	-258	-127	558	172	-25.14	-1.22	-26.36
06/13/2019	-203	-114	332	15	-30.47	-1.60	-32.07
07/15/2019	-333	-128	159	-302	-81.99	-4.54	-86.53
08/14/2019	-242	-104	523	177	-22.60	-1.08	-23.68
09/15/2019	-158	-38	867	671	41.99	2.68	44.67
10/14/2019	-117	-50	454	287	9.47	0.71	10.18
<b>TOTAL</b>	<b>-1376</b>	<b>-597</b>	<b>3205</b>	<b>1231</b>	<b>-\$96.25</b>	<b>-\$4.27</b>	<b>-\$100.52</b>

Differences in net usage may occur due to rounding

## Electric Charges

Bill Period End Date	Minimum Delivery Charges
04/15/2019	\$7.23
05/14/2019	9.53
06/13/2019	9.86
07/15/2019	10.52
08/14/2019	9.86
09/15/2019	10.51
10/14/2019	9.53
<b>TOTAL</b>	<b>\$67.04</b>

## Explanation of Calculations

Your Year-to-Date (YTD) Total NEM Charges represent the balance of your net usage since the start of your True-Up period. Charges and credits are calculated each month but are not billed until the end of the True-Up period. The State Mandated Non-Bypassable Charges are based on usage (kWh) and are relevant to determine your True-Up amount. Your NEM electric usage charges and credits will be reset to zero at True-Up.

The Minimum Delivery Charge is billed monthly and credited at True-Up if the total NEM Charges Before Taxes or total State Mandated Non-Bypassable Charges are greater than your cumulative Minimum Delivery Charges. Refer to Detail of NEM Charges page for details about the State Mandated Non-Bypassable Charges.

This is your YTD balance. Your total NEM balance will be reconciled on your True-Up statement (03/2020).

Total NEM Charges Before Taxes	-96.25
Total State Mandated Non-Bypassable Charges	96.11
Total Power Charge Indifference Adjustment	35.01
Total Electric Minimum Delivery Charges	-67.04
<b>YTD Estimated NEM Charges At True-Up</b>	<b>\$64.08</b>

Example bill of PG&E NEM charges shown for illustrative purposes

# COST SUMMARY/ IMPLICATIONS

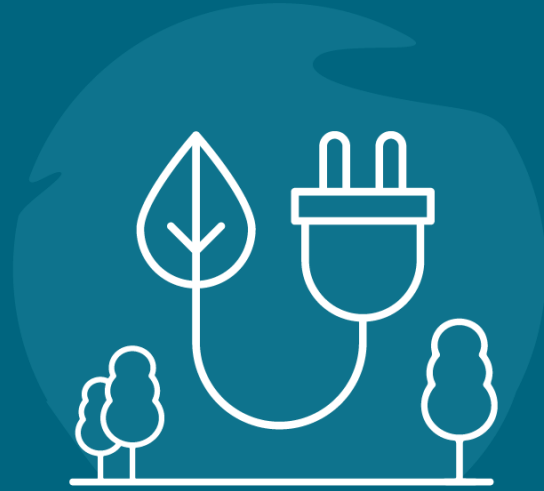
Estimated cost for purchasing exported power from net generating customers:

	Residential	Commercial	Total
Net generating customers to be enrolled	4,477	58	<b>4,535</b>
Net annual exported energy (kWh)	6,025,531	54,0674	<b>6,566,205</b>
NSC rate (\$/kWh)	0.04404	0.04404	-
Estimated Cost*	\$265,349	\$23,811	<b>\$289,160</b>

\*Illustrative based on PG&E's March 2019 NSC rate.

Financial impact of NEM enrollment:

	Residential	Commercial	Total
NEM Customers to be enrolled	21,530	474	<b>22,004</b>
Annual Net Load (kWh)	59,222,665	40,104,837	<b>99,327,502</b>
Annual Revenues	\$5,248,905	\$5,454,930	<b>\$10,703,835</b>
Annual Net Revenues	\$1,311,751	\$2,944,619	<b>\$4,256,370</b>



# 2020 POWER MIX



# PG&E AND SJCE POWER CONTENT - 2018

## SJCE

	Net Purchases (MWh)	Percent of Total Retail Sales (MWh)
<b>Specific Purchases</b>		
Renewable	18,400	48%
Biomass & Biowaste		0%
Geothermal		0%
Eligible Hydroelectric		0%
Solar		0%
Wind	18,400	48%
Coal		0%
Large Hydroelectric	25,000	52%
Natural Gas		0%
Nuclear		0%
Other		0%
<b>Total Specific Purchases</b>	<b>43,400</b>	<b>100%</b>
<b>Unspecified Power (MWh)</b>	-	0%
<b>Total</b>	<b>43,400</b>	<b>100%</b>
<b>Total Retail Sales (MWh)</b>	<b>38,387</b>	

## PG&E

ENERGY RESOURCES	PG&E 2018 POWER MIX			2018 CA POWER MIX <sup>2</sup> (For Comparison)
	Base Plan	100% Solar Choice	50% Solar Choice	
<b>Eligible Renewable:</b>	<b>39%</b>	<b>100%</b>	<b>69%</b>	<b>31%</b>
• Biomass and waste	4%	0%	2%	2%
• Geothermal	4%	0%	2%	5%
• Small hydroelectric	3%	0%	1%	2%
• Solar	18%	100%	59%	11%
• Wind	10%	0%	5%	11%
<b>Coal</b>	<b>0%</b>	<b>0%</b>	<b>0%</b>	<b>3%</b>
<b>Large Hydroelectric<sup>3</sup></b>	<b>13%</b>	<b>0%</b>	<b>6%</b>	<b>11%</b>
<b>Natural Gas</b>	<b>15%</b>	<b>0%</b>	<b>7%</b>	<b>35%</b>
<b>Nuclear</b>	<b>34%</b>	<b>0%</b>	<b>17%</b>	<b>9%</b>
<b>Other</b>	<b>0%</b>	<b>0%</b>	<b>0%</b>	<b>&lt;1%</b>
<b>Unspecified<sup>4</sup></b>	<b>0%</b>	<b>0%</b>	<b>0%</b>	<b>11%</b>
<b>TOTAL</b>	<b>100%</b>	<b>100%</b>	<b>100%</b>	<b>100%</b>

48% Renewable 100% Carbon Free

39% Renewable 85% Carbon Free

SJCE was more renewable and carbon free in 2018 : limited operations and limited service

# 2020 POWER MIX

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- PG&E has indicated that they plan to increase renewables and perhaps carbon free energy mix.
- Staff recommends moving GreenSource to 86% carbon-free beginning January 1, 2020 (~\$1.6 million).
  - Allows SJCE to continue marketing our standard service as “cheaper and cleaner” than PG&E.

