



2019 Power Cost-of-Service Rate Study Direction



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Presentation Overview

Background

Monthly Base Charge

-  Should we recover all fixed costs in the Base Charge or stay with the existing methodology?
-  Pros and Cons of two methodologies

Residential Self-Generating (Solar) Rate Design

-  Present 3 Scenarios (including current rate design)
-  Pros and Cons of 3 Scenarios

Background

Feedback from City Council at July 24, 2018 Study Session

- Presentation by Joe Bernosky on the Residential Solar rate structure
- Questions from Councilors on why we don't recover all fixed costs in our Monthly Base Charge
- Why do the Residential Solar customers pay a higher Monthly Base Charge than a regular Residential customer?
- Why do we pay Residential Solar customers full retail rate (8.0 – 9.6 cents per kWh in 2018) for their excess generation when we can buy energy from PRPA for about 6 cents per kWh?

Feedback from Residential Solar Customers

- Criticism of the additional charge per kW of capacity of customer's solar unit
- Staff committed to evaluating the rate structure again as part of this year's study

Direction from Today Will Be Presented to City Council on May 14, 2019

- Study Session featuring Mark Beauchamp, President of Utility Financial Solutions

Monthly Base Charge

☉ Current Methodology For Calculating Base Charge Called Minimum System Requirement

- ☉ Fixed Costs associated with theoretical system that delivers 1 kW of capacity to each customer is what is included in the Base Charge
- ☉ Based on smallest transformer size, conductor size, pole length
- ☉ Yields a current Base Charge of \$15.54/mo.

☉ Could Include All Fixed Costs In Monthly Base Charge




- ☉ Would yield a current Base Charge of about \$26/mo.

Pros and Cons Of Recovering All Fixed Costs in the Base Charge

Pro




-  Greater revenue stability

Cons

-  Adverse impact on customers with low usage
-  Could undermine efforts to conserve energy
-  Base Charge would be well above State average of \$19

Pros and Cons Of Minimum System Requirement Methodology

Pros

-  A better outcome for low usage customers
-  Does a better job of promoting conservation
-  An industry-standard methodology

Cons

-  Less revenue stability

 Staff recommends staying with MSR methodology

Residential Solar Rate Design

☉ 2018 Residential Solar Rate

☉ Monthly Base Charge: \$14.80

☉ Additional Monthly Charge for Capacity of Customer's Solar Unit:
\$2.47/kW

☉ Rate for Energy Consumed: \$0.07955 - \$0.09624/kWh

☉ Buyback Rate for Excess Energy Generated: \$0.07955 - \$0.09624/kWh

☉ 124 Residential Solar Customers At 2018 YE

☉ Rate at cost of service in 2018 and generated \$57K net revenue

Two Alternative Rate Designs

☉ Option 2

- ☉ Must generate \$57K of net revenue
- ☉ Eliminates additional monthly charge per kW of capacity of customer's solar unit
- ☉ Buyback Rate for Excess Energy Generated: \$0.0475/kWh on avg.

☉ Option 3

- ☉ Must generate \$57K of net revenue
- ☉ Sets Buyback Rate at \$0.062/kWh on avg. (same as rate buying from PRPA)
- ☉ Additional monthly charge per kW capacity of solar unit: \$0.96/kW

Comparison of Options - Based on 2018 Rates

	Option 1 (current)	Option 2	Option 3
Monthly Base Charge	\$14.80	\$14.80	\$14.80
Additional Charge Per kW Capacity of Solar Unit	\$2.47	N/A	\$0.96
Rate Per kWh For Energy Consumed	\$0.07955 - \$0.09624	\$0.07955 - \$0.09624	\$0.07955 – 0.09624
Rate Per kWh For Excess Energy Generated	\$0.07955 - \$0.09624	\$0.0475 (avg.)	\$0.062 (avg.)

Pros and Cons Of Option 1 (Current Rate Design)

Pros

-  Greatest revenue stability of the three Options
-  Rewards high excess generators

Cons



-  Highest Monthly Base Charge of the three Options
-  Buyback rate exceeds cost of purchasing power from PRPA

Pros and Cons Of Option 2 (No Solar Unit Capacity Charge)

Pros

-  Lowest Monthly Base Charge of the three Options
-  Rewards high net usage customers

Cons

-  Adverse impact on high excess generators
-  Least amount of revenue stability of the three Options

Pros and Cons Of Option 3 (Buyback Rate = PRPA Purchased Power Rate)

☉ Pros

- ☉ Buyback rate aligned with PRPA rate
- ☉ The middle ground of the three Options

☉ Cons

- ☉ Less revenue certainty compared to Option 1
- ☉ Residential Solar customers would still have a higher base charge than regular residential customers

☉ Staff recommends Option 3

QUESTIONS?