AGENDA

1. Study Status
2. Customer Load Profiles – Hetch Hetchy Power
3. Customer Load Profiles – CleanPowerSF
4. Market Rates – SFPUC
5. Next Steps
6. Study Timeline
STUDY STATUS – ONGOING ANALYSIS

- Revenue Requirement (Cash Basis)
  - Operations and Maintenance (O&M) Expenses
  - Programmatic Expenses
  - Debt Service
    - Developing debt module
  - Non-Debt Capital
  - Less Other Revenues

- Billing determinants
  - Customers by class
  - Peak demand
  - Energy usage

- Line extension workshop 8/27/21
## CUSTOMER BY TYPE AND SALES

<table>
<thead>
<tr>
<th>Customer Class</th>
<th>Customer Distribution</th>
<th>Sales Distribution</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Hetch Hetchy Power</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Residential</td>
<td>27%</td>
<td>1%</td>
</tr>
<tr>
<td>Commercial</td>
<td>72%</td>
<td>30%</td>
</tr>
<tr>
<td>Industrial</td>
<td>1%</td>
<td>69%</td>
</tr>
<tr>
<td><strong>CleanPowerSF</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Residential</td>
<td>92.6%</td>
<td>48.7%</td>
</tr>
<tr>
<td>Commercial</td>
<td>7.3%</td>
<td>47.6%</td>
</tr>
<tr>
<td>Industrial</td>
<td>&lt; 0.1%</td>
<td>3.7%</td>
</tr>
</tbody>
</table>
SYSTEM LOAD PROFILES – HETCH HETCHY POWER

Monthly System Energy

- Monthly energy consumption ranges from approximately 210,000 to 250,000 MWh.
- Energy usage is relatively consistent throughout the year, with slight fluctuations.

Month
- Jan
- Feb
- Mar
- Apr
- May
- Jun
- Jul
- Aug
- Sep
- Oct
- Nov
- Dec
CUSTOMER LOAD PROFILES – HETCH HETCHY POWER

Customer Load Profile Summer

Customer Load Profile Winter

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SYSTEM LOAD PROFILE – CLEANPOWERSF
MARKET PRICING FOR CAISO DAY-AHEAD ($/MWH)

Energy Prices for Calendar Year 2019

Average Energy Prices by Hour from 2018–2020

- Summer
- Winter
PG&E TIME OF USE EVOLUTION
LOAD SHAPES DRIVING MARKET PRICES

PG&E’s Current On-Peak Period Definition

Representative Class Daily Load Shapes

Average Energy Prices by Hour from 2018–2020

Energy

Residential

Commercial

Industrial

On-Peak

Hour of Day

0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23

On-Peak

Day-Ahead CAISO Energy Price ($/MW/h)

0 10 20 30 40 50 60 70 80 90 100 110 120

0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23

Summer

Winter
CORRELATION BETWEEN SEASONAL MARKET PRICES AND SEASONAL USAGE FOR CLEANPOWERSF

As temperatures decrease, usage increases due to household heating needs.

Percent Change in Usage from Summer to Winter:

- Residential: 29%
- Commercial: -3%
- Industrial: -8%

Graph showing the correlation between temperature and average energy usage.
ILLUSTRATIVE COS RESULTS

(Under)/Over-Recovery of Cost of Service at Current Rates

- Anticipate under-recovery from residential class and over-recovery from commercial classes
STUDY STATUS – NEXT STEPS

• Finalize Revenue Requirement
  – Milestone: September 30

• Cost Allocation/Cost of Service
  – Milestone: October 22

• Base Rate Design
  – Finalize Rate Structures: December 1
  – Draft Rate Design: January 21

• Rate Fairness Board
  – September 24
  – October 22
  – December (TBD)
POWER RATE STUDY TIMELINE

- **2020**
  - J: Identify Rates & Fees
  - A: Customer Profiles
  - S: Revenue Requirement
  - O: Cost of Service Analysis
  - N: Outreach Phase 1

- **2021**
  - J: Budget Update
  - F: Develop Power Rates and Charges
  - M: Outreach Phase 2
  - A: Rate Adoption
  - M: Rate Implementation

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