Public Safety Power Shutoff Preparations Brief #3

Presented to the California Public Utilities Commission (CPUC)
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Liberty Team

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Liberty Utilities

- ~49,000 customers
- ~1,400 miles of overhead lines
- ~300 miles of underground lines
- ~23,000 utility poles
- 15 substations
- Connected to Nevada Balancing Authority (not CAISO)
- 125 employees
Public Education and Outreach Improvements

- Customer notifications
- Lessons learned
- Telecommunications providers (POCs)
- Stakeholder engagement and coordination
- PSPS mapping
Grid Hardening Improvements

- Covered Conductor
- Microgrids
- Pole Replacements
- Fuse Replacements
- Tree Attachments
- Wire Upgrades

<table>
<thead>
<tr>
<th>Year</th>
<th>$(000)</th>
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<tbody>
<tr>
<td>2019</td>
<td>2,900</td>
</tr>
<tr>
<td>2020</td>
<td>19,200</td>
</tr>
<tr>
<td>Total - Completed</td>
<td>22,100</td>
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<tr>
<td>2021</td>
<td>34,300</td>
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<tr>
<td>2022</td>
<td>16,700</td>
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<tr>
<td>2023</td>
<td>18,900</td>
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<tr>
<td>2024</td>
<td>16,300</td>
</tr>
<tr>
<td>Total - Planned</td>
<td>86,200</td>
</tr>
<tr>
<td>Total - Completed + Planned</td>
<td>108,300</td>
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Mitigation of Impacts

AFN/Vulnerable Customers

• Enrollment status

• Increased outreach to encourage customers with special assistance and notification needs to register with Liberty

• Partnering with CBOs to assist and support outreach efforts

• Behind the Meter Battery Storage Program (part of Liberty Resiliency Program)
PSPS Decision-Making Framework

- ERC
  - Is Energy Release Component >92%?
    - Yes: Do Wind Gusts Exceed 40mph?
      - Yes: Initiate Protocol for De-Energization
      - No: No De-Energization
    - No: No De-Energization

- FFWI
  - Is The Fosberg Fire Weather Index >50?
    - Yes: Initiate Protocol for De-Energization
    - No: No De-Energization
PSPS Decision-Making Framework

Do Wind Gusts Exceed 40mph?

- No De-Energization
- Yes
  - Is Burning Index >75?
    - No
    - Yes: Initiate Protocol for De-Energization
Vegetation Threat

Vegetation Threat Mitigation
2016 - 2020

- Pruning
- Removing

Years: 2016, 2017, 2018, 2019, 2020

- 2016: 0%
- 2017: 41%
- 2018: 48%
- 2019: 67%
- 2020: 23%
Community Resource Centers

- Coordination with local authorities

- Primary and alternative site identification criteria
  - Indoor venues
  - Customers travel distance less than 30 miles
  - Meet ADA requirements and accommodate AFN populations
  - Comply with fire codes.
  - Mass Care Emergency Assistance Pandemic Planning considerations
Working Group and Customer Feedback

- Wildfire Safety Community Advisory Boards
- Customer Feedback
  - 70% aware of wildfire safety communications.
  - 87% acted to prevent wildfires or prepare home/business for wildfire event
  - 72% seen/heard/read phrase “Public Safety Power Shutoff or PSPS.”
  - 54% aware update contact information with Liberty (66% have updated).
  - 40% of customers reporting reliance on electricity for medical needs aware of additional Liberty notices