

2022 Public Safety Power Shutoff Post-Season Briefing

Presented to the California Public Utilities Commission

April 18, 2023



Liberty Team



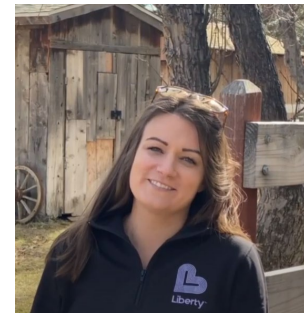
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Liberty

- ❑ ~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



2021 and 2022 Wildfire Risk

- ❑ Liberty did not have any PSPS events in 2021 or 2022
- ❑ 2021 Fire Season:
 - Above average wildfire risk
 - Critical fire conditions beginning in July
 - Wildfire impacts through most of the summer (Beckworth Complex, Tamarack, Caldor, Dixie)
- ❑ 2022 Fire Season:
 - Below average wildfire risk
 - Continuous intermittent rain events
 - Short window with critical fire weather



PSPS Forecasting

- ❑ Off-the-shelf operational weather models that are not customizable
- ❑ Weather station data to perform bias correction for predictive model improvement
- ❑ PSPS modeling based on a 3-part test (ERC, FFWI, Wind gust).
- ❑ PSPS forecast granularity
- ❑ Updates to consequence modeling using Multi Attribute Value Functions (MAVF)



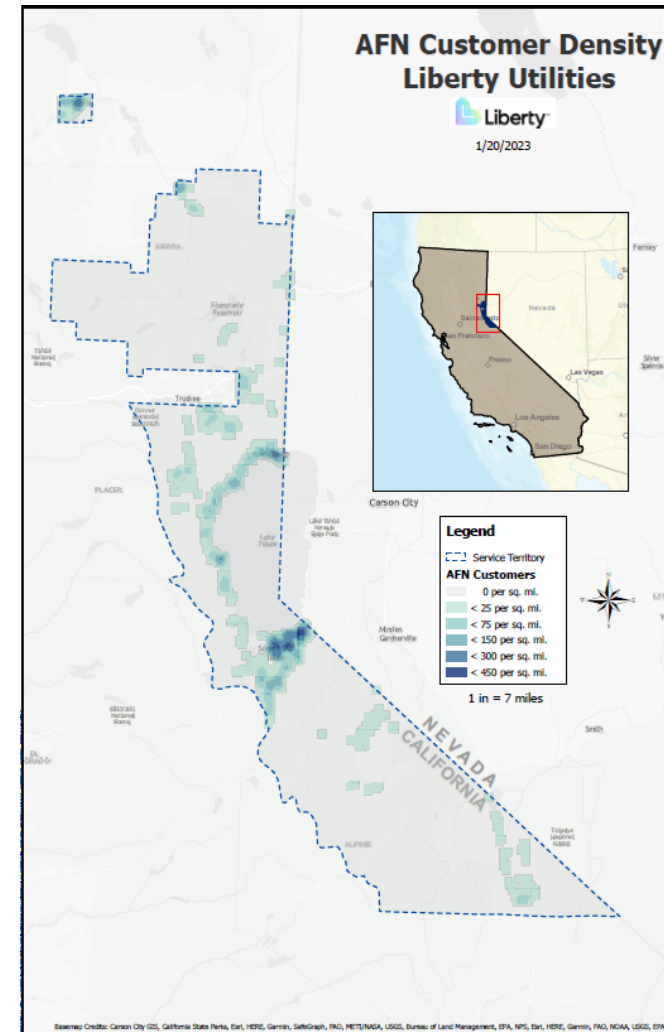
Communications & PSPS Survey Results

- ❑ Current notification system
- ❑ Wildfire Messaging Awareness surveys
 - Broader Access and Functional Needs inclusion in 2022
 - Methodology
 - Target audience



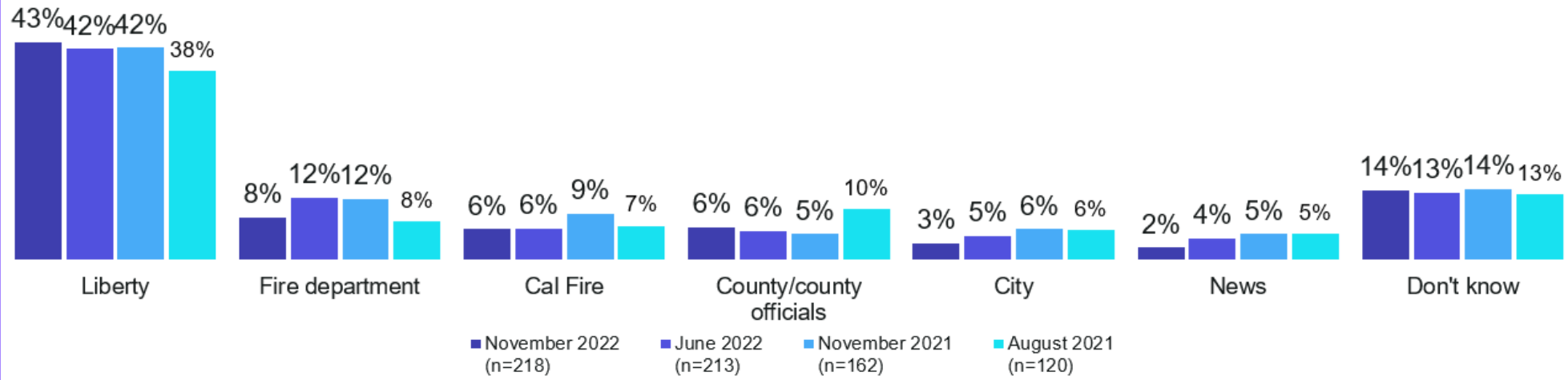
Access and Functional Needs (AFN) Improvements

- ❑ 2023 AFN Plan
- ❑ Identification of AFN individuals
- ❑ Improvements



Wildfire Preparedness Communications Sources

(among those who recall communication)



Outreach and Engagement Satisfaction

				June 2022 (n=324)	November 2021 (n=218)	August 2021 (n=204)
Availability of resources in your community	22%	35%	43%	39%	40%	33%
Where to find information to help you stay safe	22%	35%	43%	37%	41%	33%
Amount of information and outreach you received	25%	31%	43%	36%	35%	29%
In preparing you to act in the event of a wildfire	23%	35%	42% ↑	32%	41%	34%
What to expect in the event of a PSPS	27%	33%	41%	41%	39%	32%
What the utility does to mitigate wildfire risk	23%	37%	41%	36%	35%	28%

Dissatisfied (1-4)
 5-7
 Satisfied (8-10)



Sensitive Relay Profile (SRP)

- ❑ There have been no interactions between PSPS and Fast Trips to date.
- ❑ Liberty's SRP program is in development. Liberty does not have historical fast trip data to make any correlations.



Lessons Learned in 2022

- ❑ Improvements for Post-Event Report:
 - ❑ Better zone classifications of potentially affected areas
 - ❑ Link to PSPS Post-Event Report on Liberty website
 - ❑ Better evaluation of engagement with stakeholders in providing advanced education, outreach, and notification during an event
 - ❑ Better communication of restoration time in notifications to stakeholders



Looking Forward in 2023

- ❑ Continue collaboration with CBOs
- ❑ Support AFN communities
 - Continue to build and expand networks and engage resources (e.g., 211)
 - Increase ability to track and record data
 - Continue AFN-specific survey
- ❑ PSPS training and planned exercises
- ❑ Continue grid hardening
- ❑ Analyze past weather station observations to improve forecasting
- ❑ Develop Sensitive Relay Profile triggers

