California’s Public Safety Power Shutoff (PSPS) Program: Briefing

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The IOUs have Public Safety Power Shutoff (PSPS) programs to protect public safety

- The CPUC has reviewed and approved the IOU’s plans
- The IOU’s PSPS plans include all voltage levels (distribution to 500kV)
- PSPS triggers are based on meteorological data, vegetation, terrain, etc.
- IOUs evaluate conditions and determine which circuits will be de-energized
- IOUs direct the circuit de-energization at PSPS triggers
- IOUs are responsible for direct load management on circuit de-energization
  - Direct load management happens when the circuit feeding the load is de-energized

Note: These actions are independent of the CAISO responsibilities
CAISO Principles

- Facilitate PSPS outages
- Analyze, identify & communicate PSPS impacts and required mitigation to the IOU, if sufficient time is given
- Maintain reliability of the bulk electric system, which may require additional load management
- Confine PSPS impacts to the initiating IOU
- Confine PSPS impacts to CAISO BA
A PSPS may have minimal impact on the BES

PSPS Scenario 1 – 60kV & distribution level

- 200 MW of customer demand will be de-energized by PG&E
- No impact to CAISO generation or transmission

ISO energy & transmission capacity available to meet demand
A PSPS may have a significant impact on the BES PPS Scenario 2 – BES level

- 2000 MW of customer demand will be de-energized by PG&E
- 2200 MW of generation will be forced off (Diablo Cyn)
- 3200 MW of transmission capacity will be lost (COI)
- 2500 MW of load will be ordered off by ISO
- BANC BA will lose 900 of imports, and need to shed 400 MW of load to re-balance their system

CAISO will order 400MW of additional load shed to provide energy to BANC

CAISO energy & transmission capacity unable to meet demand
PSPS Restoration

• The IOU’s PSPS plans require a patrol of the circuits that were de-energized before being re-energized.
• Complete restoration may take several days