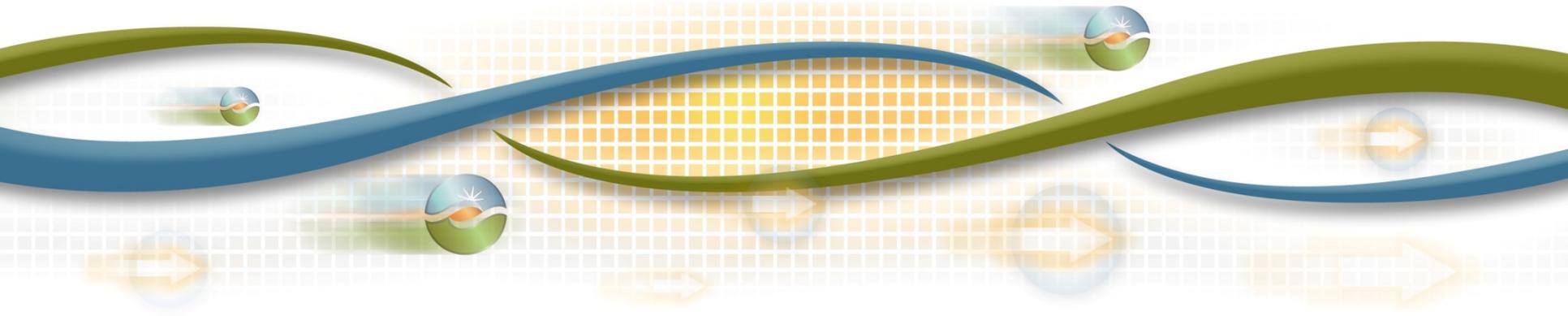




# Metcalf Energy Center Retirement Assessment

*Stakeholder Call*

*September 26, 2017*



# Metcalf Energy Center Map



# Assessment Summary

## Metcalf Energy Center

- Current local capacity requirements in the South Bay-Moss Landing sub-area of the Bay Area local area are met with the Metcalf generation as a part of the generation in the area
- Entire plant is required to mitigate potential overloads and provide voltage support under contingency conditions
- The sub-area will be LCR deficient without Metcalf EC

# Assessment Details

## Metcalf Energy Center

- Most critical contingency
  - Outage of the Tesla-Metcalf 500 kV and Moss Landing-Los Banos 500 kV
  - Limitation is thermal overloading of the Las Aguillas-Moss Landing 230 kV
  - Secondary limitation is low voltage and potential voltage instability
- Other reliability concerns in the area
  - Thermal overloading of Newark-Los Esteros 230 kV line (for L-1-1)
  - Thermal overloading of Trimble-San Jose B 115 kV line (for L-1-1)
  - Thermal overloading of Metcalf #12 500/230 kV transformer (for T-1-1)
  - Thermal overloading of Metcalf #13 500/230 kV transformer (for T-1-1)

## Next Steps

- Stakeholder call September 26
- Stakeholder comments to be submitted by October 6
  - [regionaltransmission@caiso.com](mailto:regionaltransmission@caiso.com)
- Present to ISO Board at November meeting – seeking RMR designation:
  - Calpine would be expected to develop its proposed cost of service.
  - ISO staff would then work with Calpine along with the responsibility utility and CPUC to review Calpine's proposed costs for service including any proposed capital investments.
  - Subject to the resource adequacy showings by October 31 2017, the RMR agreement would be executed as necessary and filed with FERC by Calpine.