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<td>CalISO - Grid Operation in the Context of AB3232</td>
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<td>Description:</td>
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<td>Filer:</td>
<td>Junguang Lu</td>
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<td>Organization:</td>
<td>California Energy Commission</td>
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Grid operations in the context of AB 3232

Delphine Hou
Director, California Regulatory Affairs
California Independent System Operator

Commissioner Workshop on Building Decarbonization Assessment
December 4, 2019
The California Independent System Operator (CAISO) has several roles

- **Balancing Authority**
  - Balance supply and demand, maintain reserves, plan for outages, ensure system security

- **Regional Transmission Planner**
  - Transmission planning across investor owned utilities, municipal utilities, independent transmission owners

- **Market Operator**
  - The only wholesale energy market operator in the western United States
  - Operator of the Western Energy Imbalance Market

- **Reliability Coordinator**
  - For majority of California and soon will cover 87 percent of the load in the western United States
The CAISO is NOT:

- Load serving entity
  - Does not procure resources to serve load or meet resource adequacy requirements
- Transmission or generation owner
  - Not responsible for performing physical switching and maintenance
- Distribution system owner or planner
  - Not responsible for performing physical switching and maintenance or expansion planning
- Utility regulator
The CAISO is uniquely positioned to address reliability and already works closely with state agencies.

1. CEC: Create demand forecast
   - CAISO: Create local and flexible capacity analyses and transmission plan
   - CPUC: Assess resource needs

2. Each process allows for open stakeholder participation.
   - ISO assess operability of resource mix

3. CPUC: Create integrated resource and procurement plan

Demand-side impacts from 2 and 3 feed into next CEC demand forecast cycle.
The CAISO supports California’s clean energy goals while maintaining reliability

33% RPS achieved ahead of 2020 target

78% highest load level served by renewable energy

98.7% highest load level served by carbon-free resources

32% Reduction in GHG Emission associated with serving ISO since 2014 (as of November 2019)

Total GHG Emission to serve ISO load
Grid operations and needs signal opportunity for decarbonization

Source: [http://www.caiso.com/TodaysOutlook/Pages/default.aspx](http://www.caiso.com/TodaysOutlook/Pages/default.aspx)