Briefing on renewable and energy storage projects in the ISO generator interconnection queue

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Board of Governors Meeting
General Session
July 24, 2019
Renewable and energy storage capacity in ISO queue

![Bar chart showing capacity by month from June 2011 to July 2019 in MW. Key categories include: Other Renewables, Wind, Solar Thermal, Solar PV, and Storage.]

- June 2011: 70,344 MW
- April 2012: 40,063 MW
- June 2013: 25,354 MW
- June 2014: 21,093 MW
- June 2015: 8,558 MW
- July 2016: 38,531 MW
- June 2017: 39,387 MW
- August 2018: 45,589 MW
- July 2019: 45,583 MW

The chart breakdowns are as follows:

- Other Renewables
- Wind
- Solar Thermal
- Solar PV
- Storage

The data reflects the progress and capacity growth over the specified period.
Queue statistics

- **66,716 MW renewable energy projects**
  - 41% MW have completed the study process
  - 59% MW are being studied

- **45,583 MW of energy storage projects**
  - 44,539 MW battery
  - 1,000 MW pumped storage
  - 44 MW other

- **New cluster 12**
  - 136 projects
  - 32,168 MW, renewable
  - 29,756 MW energy storage
    - 18,343 MW combined with renewable project
    - 11,413 MW stand-alone energy storage
Current and projected renewable generation capacity in operation within the ISO

- Solar Thermal
- Solar PV
- Wind
- Biofuel
- Small Hydro
- Geothermal

Renewable Capacity (MW)

- **Existing generation**

- **2030**

- All online resources that are not in test mode, including those yet to achieve full commercial operation.
- Estimate of renewable capacity build-out to meet the 2030 60% RPS requirement (based on CPUC Base Case Portfolio from the Revised 2019 Unified Resource Adequacy and Integrated Resource Plan)
1,656 MW Offshore Wind

8,323 MW Offshore Wind