Wind and Solar Curtailment September 10, 2021

This report is produced daily to provide a detailed accounting of the wind and solar renewable generation that was curtailed and the reasons why¹. This report should be read in the context of the Renewables Watch report for a more complete understanding of both renewable curtailment and generation².

Wind and solar curtailments are grouped into the following categories:

1. **Economic - Local**: Market dispatch of generators with economic bids to mitigate local congestion³.
2. **Economic - System**: Market dispatch of generators with economic bids to mitigate system-wide oversupply⁴.
3. **SelfSchCut - Local**: Market dispatch of self-schedules to mitigate local congestion.
4. **SelfSchCut - System**: Market dispatch of self-schedules to mitigate system-wide oversupply.
5. **ExDispatch - Local**: Exceptional dispatch to mitigate local congestion.
6. **ExDispatch - System**: Exceptional dispatch to mitigate system-wide oversupply.

Note: Amounts smaller than 1 MW are filtered out for simplicity. Such small curtailments are occasionally observed when forecasts are lower than Pmin when market will de-commit the unit and send the 0 MW dispatch.

¹Only wind and solar resources can be reported in this manner because these resources have a forecast. Curtailment is defined as the difference between actual production and the forecast when actual production is less than the forecast.

²The Renewables Watch report provides daily actual renewable production within the ISO grid. It is available at: [http://www.caiso.com/green/renewableswatch.html](http://www.caiso.com/green/renewableswatch.html).

³Congestion occurs when available, least-cost energy cannot be delivered to some loads because transmission facilities do not have sufficient capacity to deliver the energy.

⁴For more information on oversupply conditions, please see: [https://www.caiso.com/Documents/FlexibleResourcesHelpRenewables_FastFacts.pdf](https://www.caiso.com/Documents/FlexibleResourcesHelpRenewables_FastFacts.pdf)
The following charts show the daily and 7-day wind and solar curtailment by category, if any.

1. Hourly wind/solar generation curtailment energy in MWh. - 9/10/2021

2. Maximum wind/solar generation curtailment in MW for any one of the twelve real-time dispatch intervals in a particular hour. - 9/10/2021

3. Daily wind/solar curtailment energy in MWh on a 7-day basis. - 9/10/2021

4. Maximum generation curtailment in MW for any one of the twelve real-time dispatch intervals in a particular day on a 7-day basis. - 9/10/2021
The following charts show monthly year to date wind and solar curtailment by category, if any.

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Data used to produce hourly chart

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