Wind and Solar Curtailment December 11, 2022

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.
5. ExDispatch - Local: Exceptional dispatch to mitigate local congestion.

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.

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
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. - 12/11/2022

2. Maximum wind/solar generation curtailment in MW for any one of the twelve real-time dispatch intervals in a particular hour. - 12/11/2022

3. Daily wind/solar curtailment energy in MWh on a 7-day basis. - 12/11/2022

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. - 12/11/2022
The following charts show hourly year to date wind and solar curtailment by category, if any.

The following charts show monthly year to date wind and solar curtailment by category, if any.

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<thead>
<tr>
<th>TYPE</th>
<th>YTD CURTAILED MWH - 12/11/2022</th>
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<td>6,326</td>
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<td>486,854</td>
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Data used to produce hourly chart

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<th>DATE</th>
<th>HOUR</th>
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<th>REASON</th>
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The information contained in this report is preliminary and subject to change without notice. No inference, decision or conclusion should be made based on the information in this report or any series of these reports. All values are hourly average unless otherwise stated. Questions about this report should be directed to Short-Term Forecasting at ShortTermForecasting@caiso.com.