

## Wind and Solar Curtailment April 17, 2025

This report is produced daily to provide a detailed accounting of the wind and solar renewable generation that was curtailed and the reasons why<sup>1</sup>. This report should be read in the context of the Renewables Watch report for a more complete understanding of both renewable curtailment and generation<sup>2</sup>.

Wind and solar curtailments are grouped into the following categories:

1. Economic - Local: Market dispatch of generators with economic bids to mitigate local congestion<sup>3</sup>.
2. Economic - System: Market dispatch of generators with economic bids to mitigate system-wide oversupply<sup>4</sup>.
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.

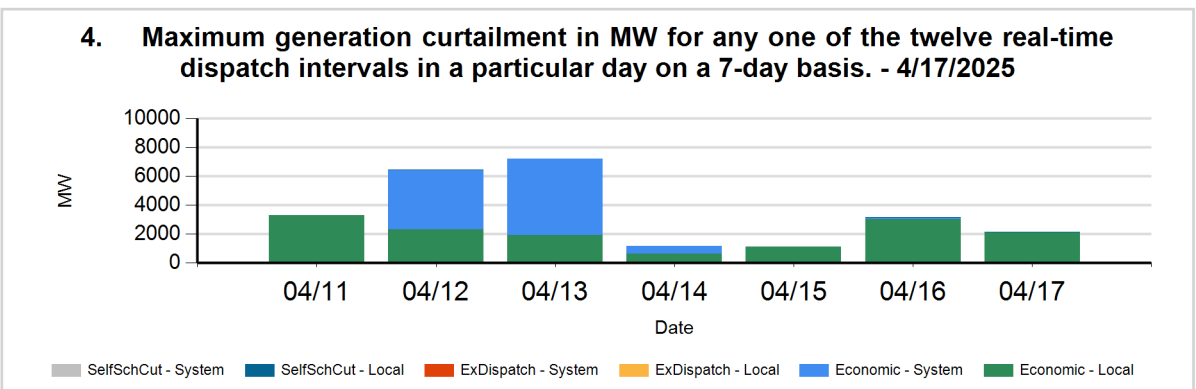
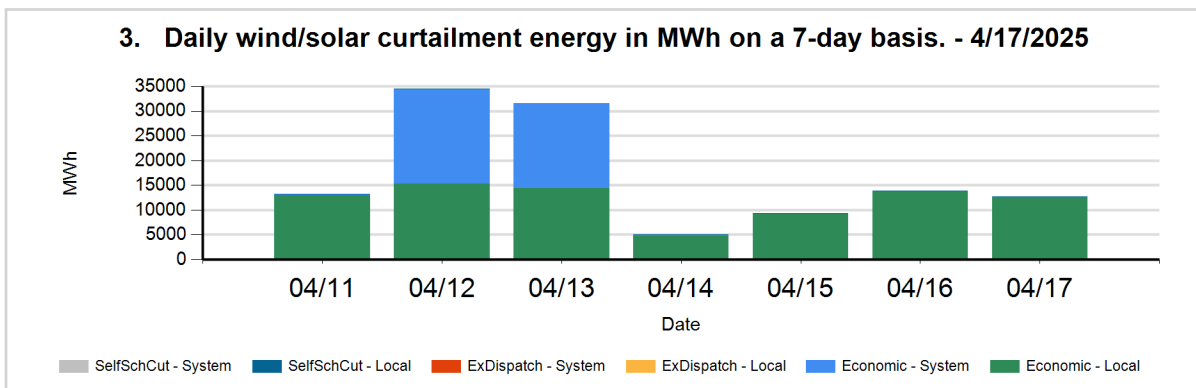
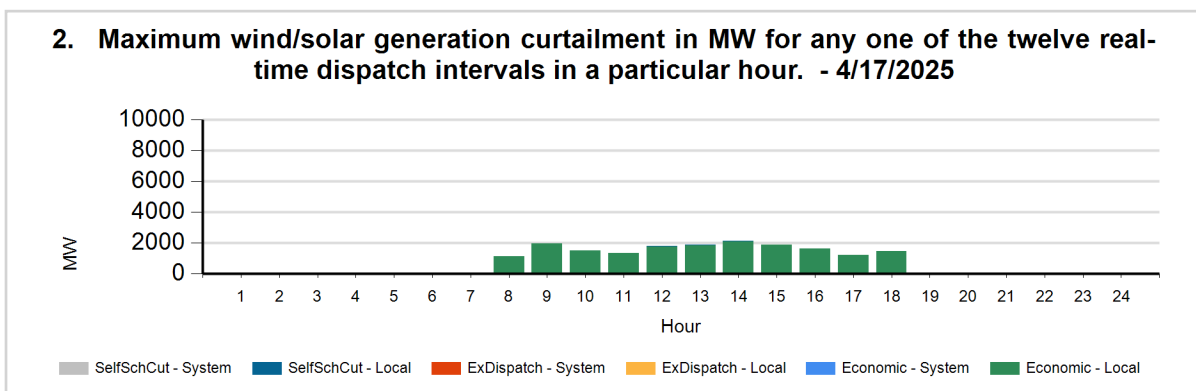
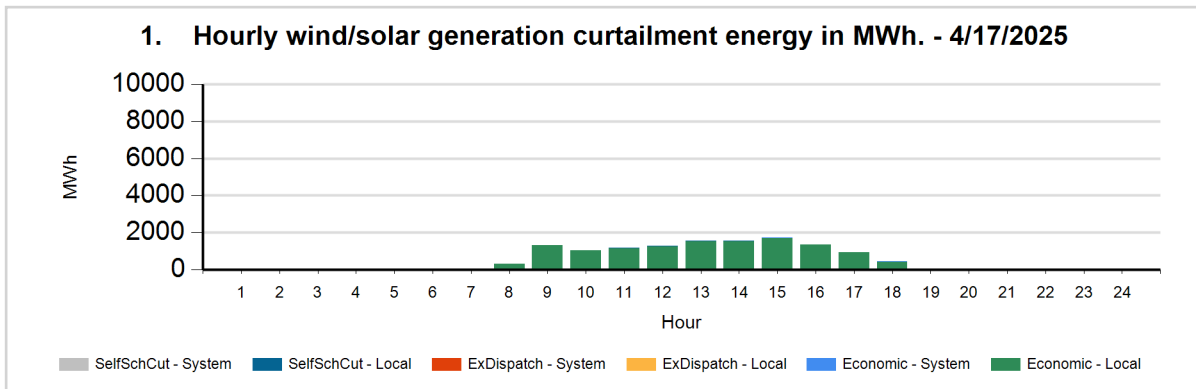
<sup>1</sup>Only wind and solar resources can be reported in this manner because these resources have a forecast. Curtailment is defined as the difference between actual production and the forecast when actual production is less than the forecast.

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

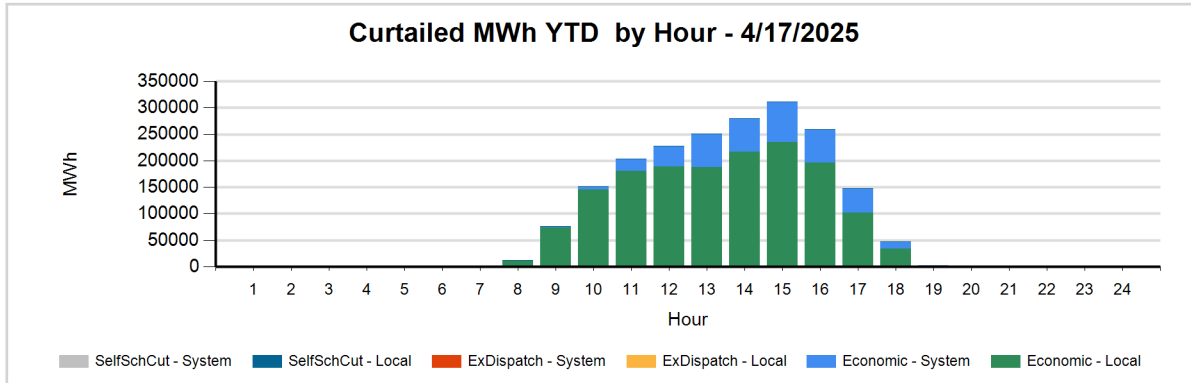
<sup>3</sup>Congestion occurs when available, least-cost energy cannot be delivered to some loads because transmission facilities do not have sufficient capacity to deliver the energy.

<sup>4</sup>For more information on oversupply conditions, please see: [http://www.caiso.com/Documents/FlexibleResourcesHelpRenewables\\_FastFacts.pdf](http://www.caiso.com/Documents/FlexibleResourcesHelpRenewables_FastFacts.pdf)

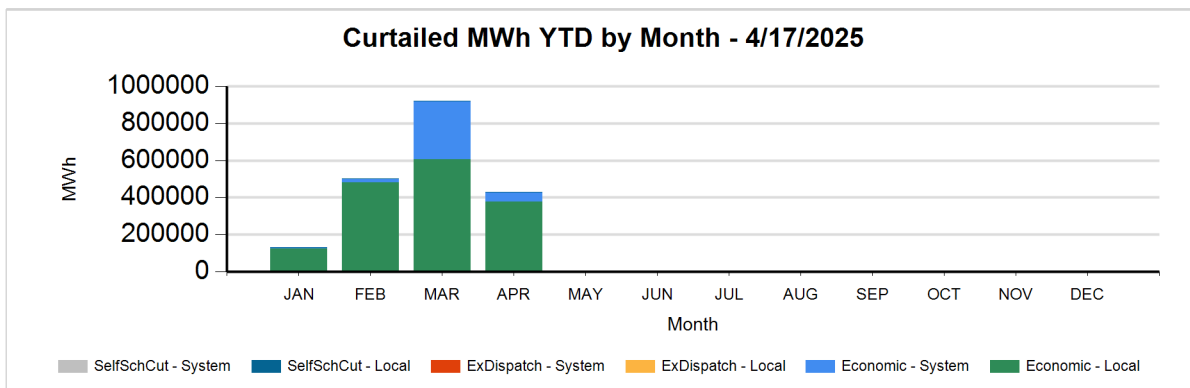
The following charts show the daily and 7-day wind and solar curtailment by category, if any.



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.



TYPE	YTD CURTAILED MWH - 4/17/2025
LocalEconomic	1,587,954
LocalSelfSchCut	359
SystemEconomic	393,092
TOTAL	1,981,404

### Data used to produce hourly chart

DATE	HOUR	CURT TYPE	REASON	FUEL TYPE	CURTAILED MWH	CURTAILED MW
04/17	1	Economic	Local	WIND	1	8
04/17	8	Economic	Local	SOLR	178	846
04/17	8	Economic	Local	WIND	114	286
04/17	9	Economic	Local	SOLR	1099	1705
04/17	9	Economic	Local	WIND	226	257
04/17	10	Economic	Local	SOLR	784	1262
04/17	10	Economic	Local	WIND	262	249
04/17	10	SelfSchCut	Local	SOLR	0	
04/17	11	Economic	Local	SOLR	899	910
04/17	11	Economic	Local	WIND	288	438
04/17	11	Economic	System	SOLR	0	
04/17	11	SelfSchCut	Local	SOLR	1	
04/17	12	Economic	Local	SOLR	948	1585
04/17	12	Economic	Local	WIND	321	212
04/17	12	SelfSchCut	Local	SOLR	1	3
04/17	13	Economic	Local	SOLR	1323	1666
04/17	13	Economic	Local	WIND	232	222
04/17	13	SelfSchCut	Local	SOLR	1	4
04/17	14	Economic	Local	SOLR	1300	1880
04/17	14	Economic	Local	WIND	251	250
04/17	14	SelfSchCut	Local	SOLR	1	3
04/17	15	Economic	Local	SOLR	1469	1645
04/17	15	Economic	Local	WIND	248	248
04/17	15	Economic	System	SOLR	1	
04/17	16	Economic	Local	SOLR	1101	1375
04/17	16	Economic	Local	WIND	244	246
04/17	17	Economic	Local	SOLR	697	961
04/17	17	Economic	Local	WIND	237	238
04/17	18	Economic	Local	SOLR	345	1252
04/17	18	Economic	Local	WIND	95	208
04/17	18	Economic	System	SOLR	1	

04/17	19	Economic	Local	SOLR	3	12
04/17	23	Economic	Local	WIND	9	46
04/17	24	Economic	Local	WIND	3	14

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](mailto:ShortTermForecasting@caiso.com).