

Wind and Solar Curtailment April 13, 2025

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.

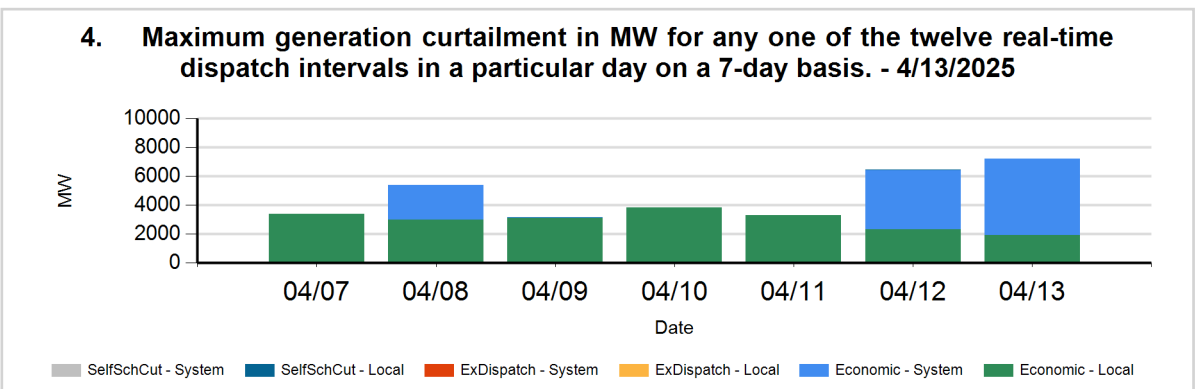
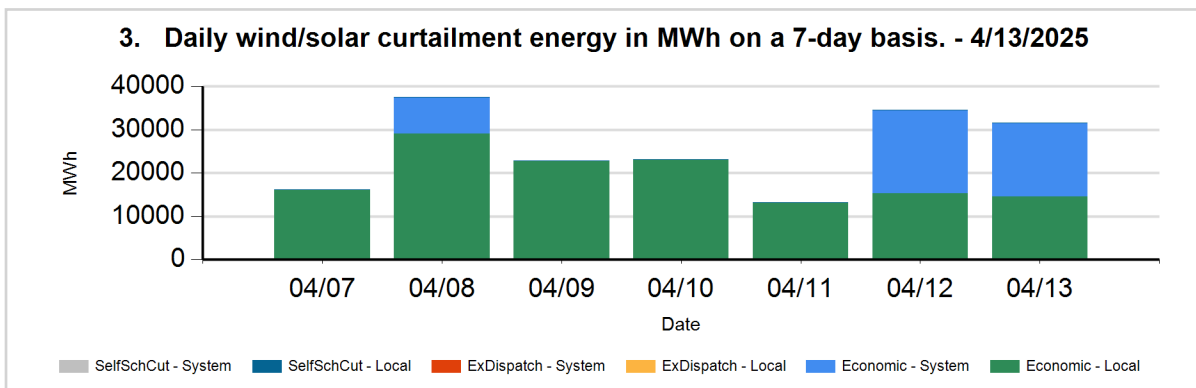
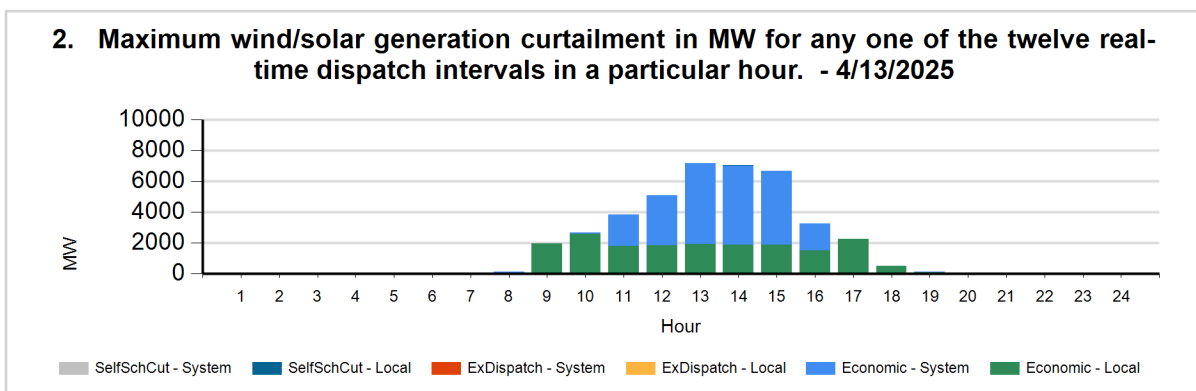
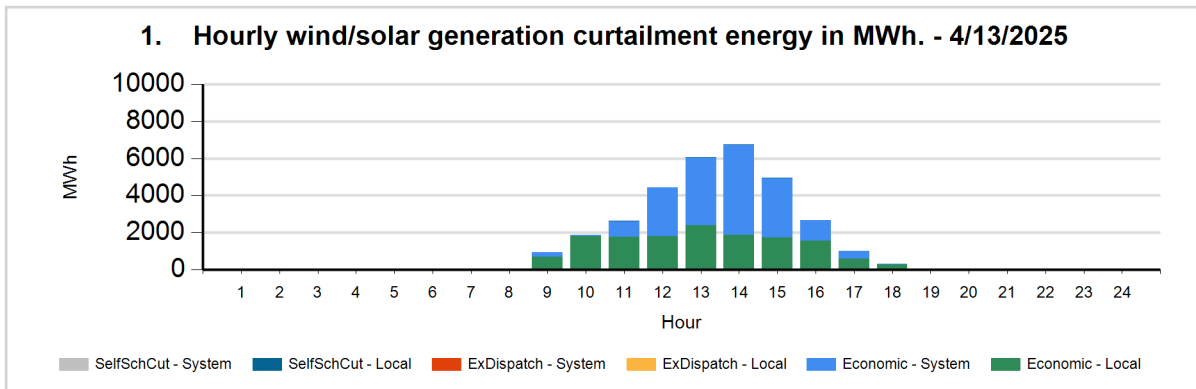
¹Only wind and solar resources can be reported in this manner because these resources have a forecast. Curtailment is defined as the difference between actual production and the forecast when actual production is less than the forecast.

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

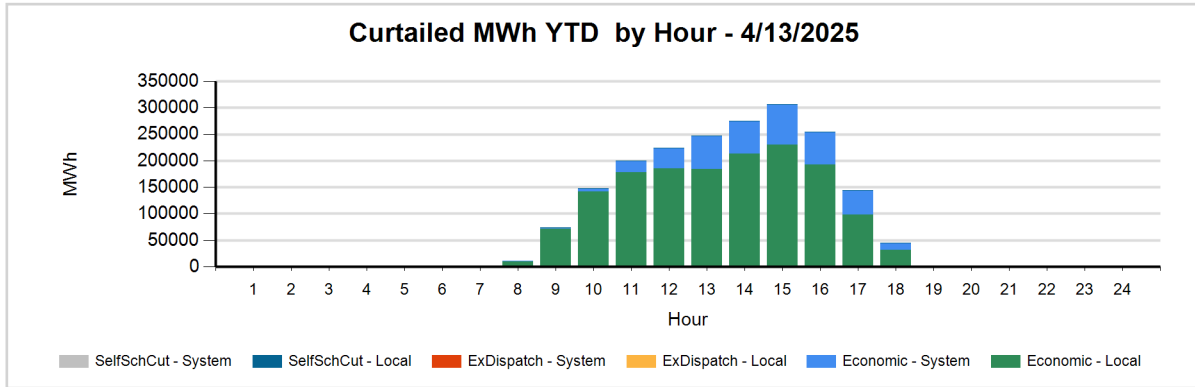
³Congestion occurs when available, least-cost energy cannot be delivered to some loads because transmission facilities do not have sufficient capacity to deliver the energy.

⁴For more information on oversupply conditions, please see: http://www.caiso.com/Documents/FlexibleResourcesHelpRenewables_FastFacts.pdf

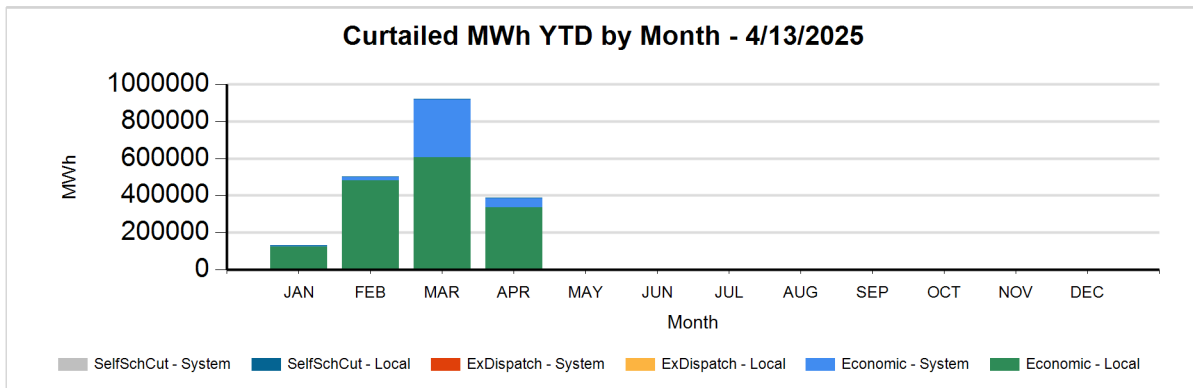
The following charts show the daily and 7-day wind and solar curtailment by category, if any.



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 - 4/13/2025
LocalEconomic	1,547,569
LocalSelfSchCut	291
SystemEconomic	392,676
TOTAL	1,940,536

Data used to produce hourly chart

DATE	HOUR	CURT TYPE	REASON	FUEL TYPE	CURTAILED MWH	CURTAILED MW
04/13	8	Economic	Local	SOLR	11	55
04/13	8	Economic	System	SOLR	12	68
04/13	8	Economic	System	WIND	3	17
04/13	9	Economic	Local	SOLR	674	1849
04/13	9	Economic	Local	WIND	9	110
04/13	9	Economic	System	SOLR	210	
04/13	9	Economic	System	WIND	24	
04/13	10	Economic	Local	SOLR	1799	2590
04/13	10	Economic	Local	WIND	13	11
04/13	10	Economic	System	SOLR	15	
04/13	10	Economic	System	WIND	27	56
04/13	11	Economic	Local	SOLR	1744	1798
04/13	11	Economic	Local	WIND	11	
04/13	11	Economic	System	SOLR	758	1720
04/13	11	Economic	System	WIND	115	306
04/13	11	SelfSchCut	Local	SOLR	1	
04/13	12	Economic	Local	SOLR	1807	1812
04/13	12	Economic	System	SOLR	2261	2786
04/13	12	Economic	System	WIND	343	477
04/13	13	Economic	Local	SOLR	2288	1917
04/13	13	Economic	Local	WIND	90	
04/13	13	Economic	System	SOLR	3173	4696
04/13	13	Economic	System	WIND	482	580
04/13	13	SelfSchCut	Local	SOLR	4	
04/13	14	Economic	Local	SOLR	1857	1891
04/13	14	Economic	System	SOLR	4230	4484
04/13	14	Economic	System	WIND	644	680
04/13	14	SelfSchCut	Local	SOLR	3	1
04/13	15	Economic	Local	SOLR	1711	1875
04/13	15	Economic	System	SOLR	2801	4192
04/13	15	Economic	System	WIND	419	625

04/13	15	SelfSchCut	Local	SOLR	1	
04/13	16	Economic	Local	SOLR	1557	1494
04/13	16	Economic	Local	WIND	5	
04/13	16	Economic	System	SOLR	1057	1700
04/13	16	Economic	System	WIND	45	59
04/13	16	SelfSchCut	Local	SOLR	0	
04/13	17	Economic	Local	SOLR	594	2235
04/13	17	Economic	Local	WIND	1	6
04/13	17	Economic	System	SOLR	410	
04/13	17	Economic	System	WIND	3	
04/13	18	Economic	Local	SOLR	261	478
04/13	18	Economic	System	SOLR	30	
04/13	18	Economic	System	WIND	0	
04/13	19	Economic	Local	SOLR	20	68
04/13	19	Economic	System	SOLR	14	46

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.