

Wind and Solar Curtailment April 28, 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.

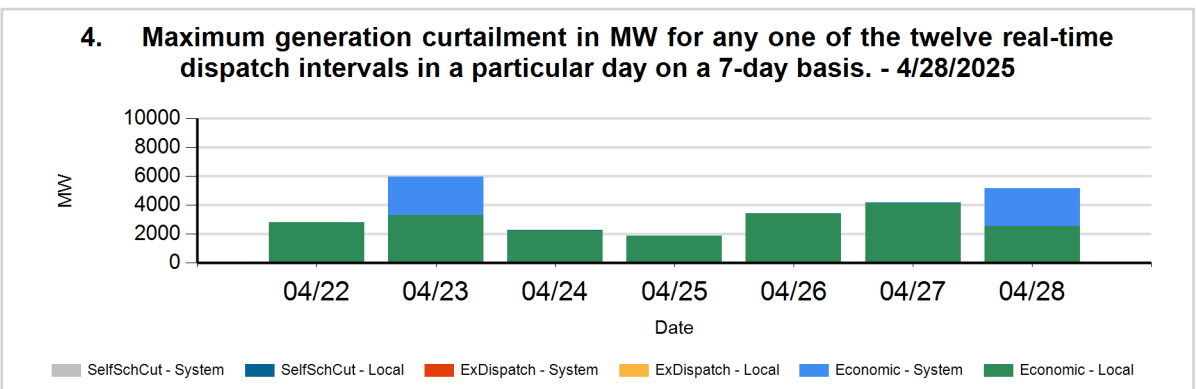
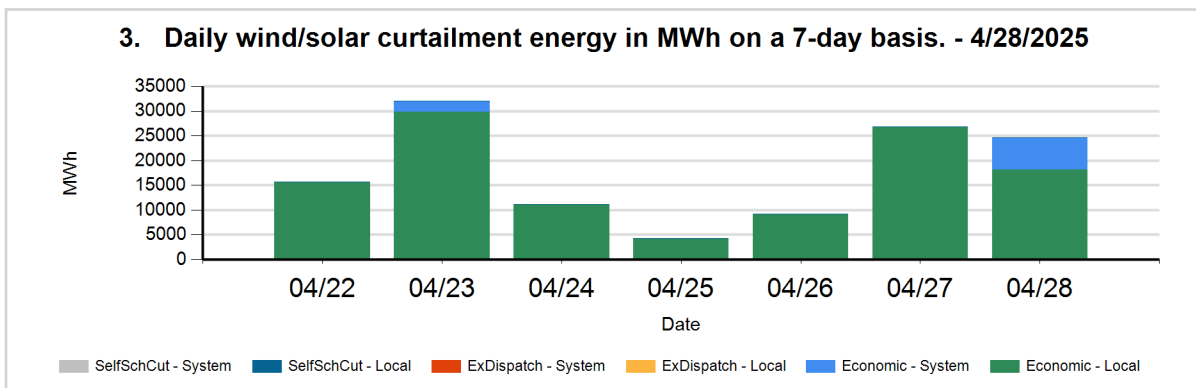
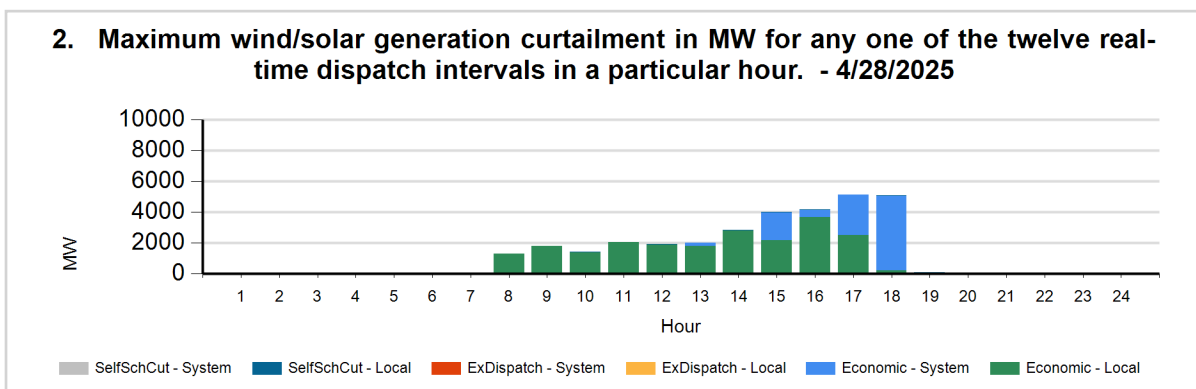
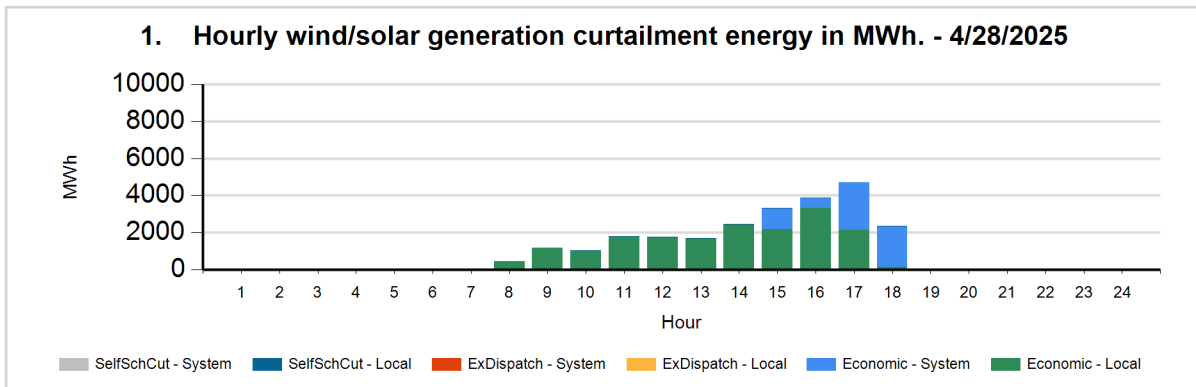
¹Only wind and solar resources can be reported in this manner because these resources have a forecast. Curtailment is defined as the difference between actual production and the forecast when actual production is less than the forecast.

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

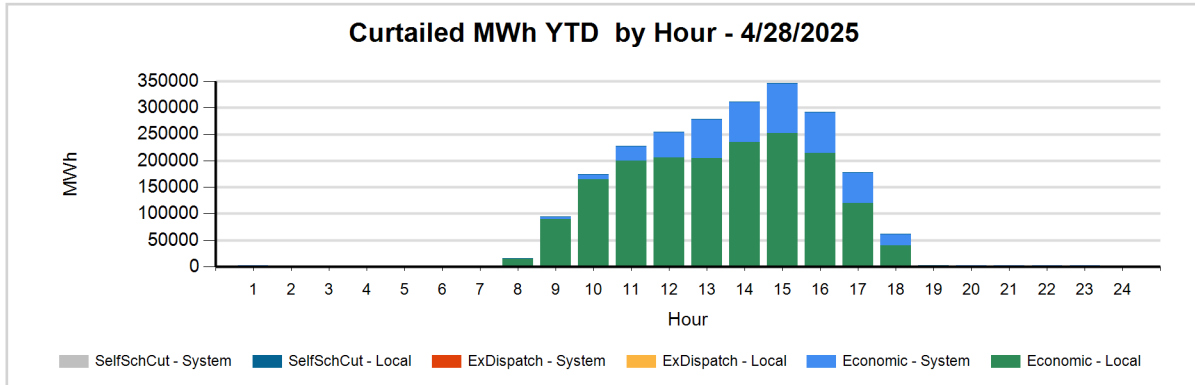
³Congestion occurs when available, least-cost energy cannot be delivered to some loads because transmission facilities do not have sufficient capacity to deliver the energy.

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

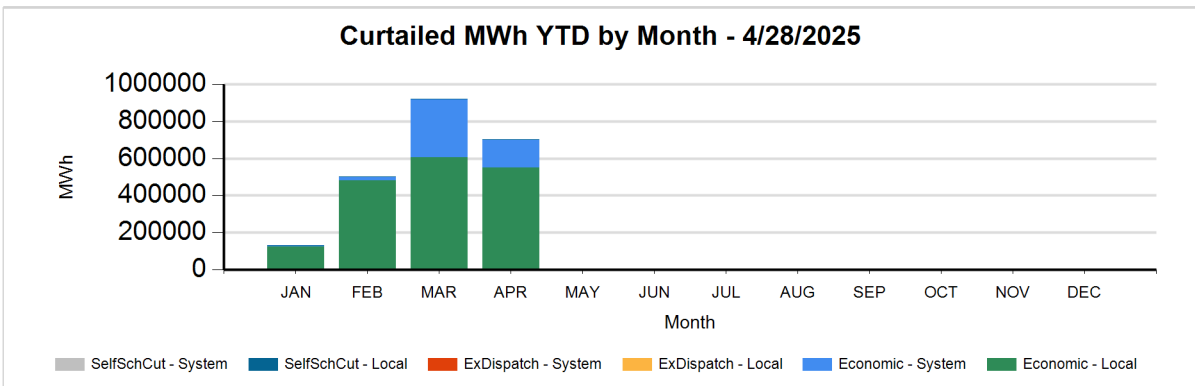
The following charts show the daily and 7-day wind and solar curtailment by category, if any.



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 - 4/28/2025
LocalEconomic	1,761,621
LocalSelfSchCut	455
SystemEconomic	490,954
TOTAL	2,253,030

Data used to produce hourly chart

DATE	HOUR	CURT TYPE	REASON	FUEL TYPE	CURTAILED MWH	CURTAILED MW
04/28	8	Economic	Local	SOLR	442	1213
04/28	8	Economic	Local	WIND	14	78
04/28	9	Economic	Local	SOLR	1188	1773
04/28	10	Economic	Local	SOLR	1038	1412
04/28	10	SelfSchCut	Local	SOLR	1	4
04/28	11	Economic	Local	SOLR	1781	2025
04/28	11	Economic	System	SOLR	1	
04/28	11	SelfSchCut	Local	SOLR	1	
04/28	12	Economic	Local	SOLR	1755	1900
04/28	12	Economic	Local	WIND	0	
04/28	12	SelfSchCut	Local	SOLR	6	6
04/28	13	Economic	Local	SOLR	1662	1780
04/28	13	Economic	Local	WIND	6	3
04/28	13	Economic	System	SOLR	21	194
04/28	13	Economic	System	WIND	2	4
04/28	13	SelfSchCut	Local	SOLR	3	
04/28	14	Economic	Local	SOLR	2436	2789
04/28	14	Economic	Local	WIND	4	3
04/28	14	Economic	System	SOLR	13	11
04/28	14	Economic	System	WIND	9	18
04/28	14	SelfSchCut	Local	SOLR	7	10
04/28	15	Economic	Local	SOLR	2183	2154
04/28	15	Economic	Local	WIND	2	2
04/28	15	Economic	System	SOLR	1093	1769
04/28	15	Economic	System	WIND	43	83
04/28	15	SelfSchCut	Local	SOLR	4	12
04/28	16	Economic	Local	SOLR	3306	3663
04/28	16	Economic	Local	WIND	9	4
04/28	16	Economic	System	SOLR	502	411
04/28	16	Economic	System	WIND	48	82
04/28	16	SelfSchCut	Local	SOLR	3	6

04/28	17	Economic	Local	SOLR	2138	2515
04/28	17	Economic	Local	WIND	19	
04/28	17	Economic	System	SOLR	2371	2381
04/28	17	Economic	System	WIND	191	231
04/28	18	Economic	Local	SOLR	148	206
04/28	18	Economic	System	SOLR	2060	4577
04/28	18	Economic	System	WIND	151	301
04/28	18	SelfSchCut	Local	SOLR	4	9
04/28	19	Economic	Local	SOLR	19	51
04/28	19	Economic	System	SOLR	1	
04/28	19	SelfSchCut	Local	SOLR	3	13
04/28	20	Economic	Local	SOLR	2	11

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.