

Wind and Solar Curtailment April 02, 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.

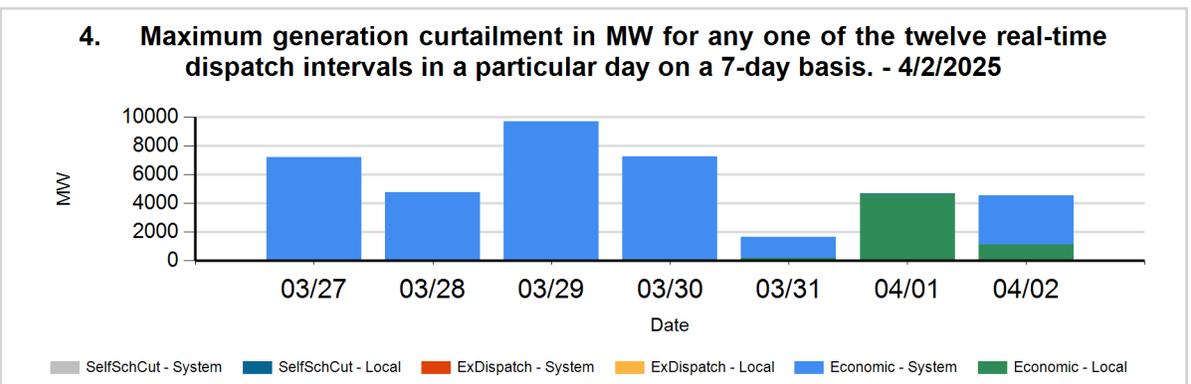
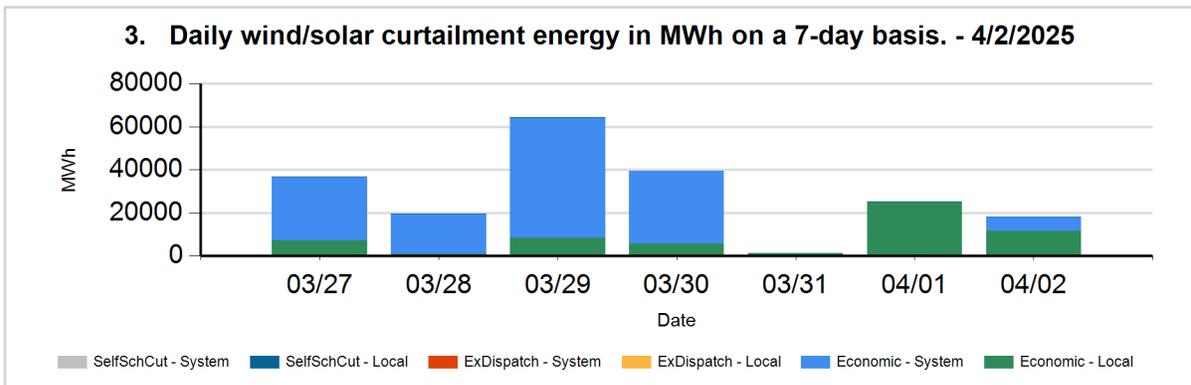
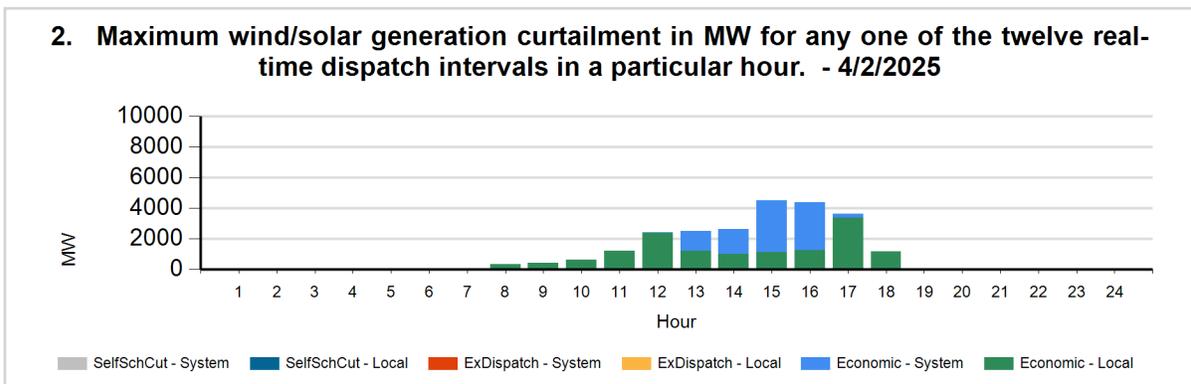
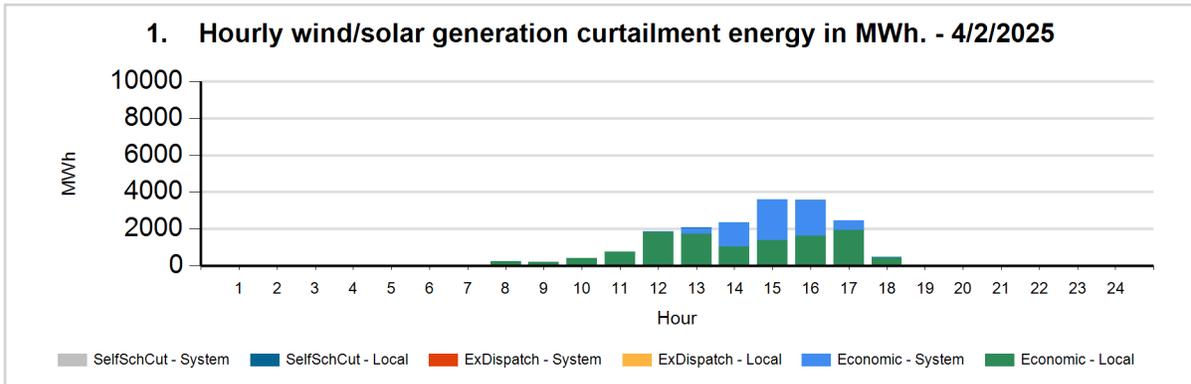
¹Only wind and solar resources can be reported in this manner because these resources have a forecast. Curtailment is defined as the difference between actual production and the forecast when actual production is less than the forecast.

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

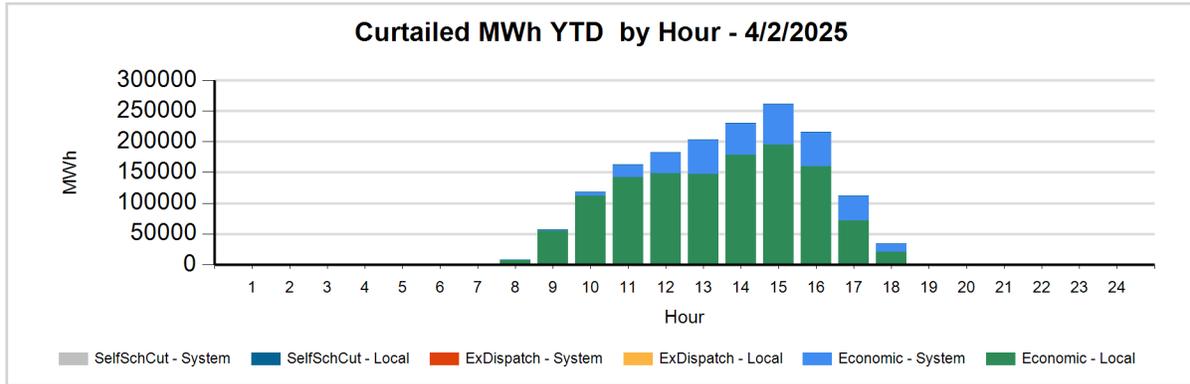
³Congestion occurs when available, least-cost energy cannot be delivered to some loads because transmission facilities do not have sufficient capacity to deliver the energy.

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

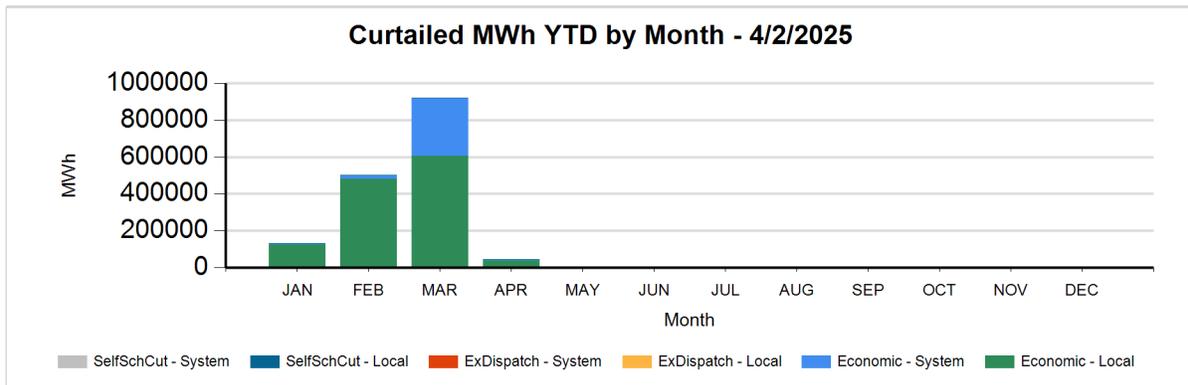
The following charts show the daily and 7-day wind and solar curtailment by category, if any.



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 - 4/2/2025
LocalEconomic	1,249,178
LocalSelfSchCut	215
SystemEconomic	345,743
TOTAL	1,595,136

Data used to produce hourly chart

DATE	HOUR	CURT TYPE	REASON	FUEL TYPE	CURTAILED MWH	CURTAILED MW
04/02	8	Economic	Local	SOLR	0	
04/02	8	Economic	Local	WIND	223	347
04/02	9	Economic	Local	SOLR	44	
04/02	9	Economic	Local	WIND	165	400
04/02	10	Economic	Local	SOLR	416	625
04/02	10	Economic	Local	WIND	1	
04/02	11	Economic	Local	SOLR	711	1087
04/02	11	Economic	Local	WIND	52	101
04/02	12	Economic	Local	SOLR	1796	2337
04/02	12	Economic	Local	WIND	69	91
04/02	12	Economic	System	SOLR	1	
04/02	12	Economic	System	WIND	3	3
04/02	12	SelfSchCut	Local	SOLR	0	
04/02	13	Economic	Local	SOLR	1600	1186
04/02	13	Economic	Local	WIND	122	
04/02	13	Economic	System	SOLR	285	1136
04/02	13	Economic	System	WIND	54	190
04/02	13	SelfSchCut	Local	SOLR	1	
04/02	14	Economic	Local	SOLR	1022	999
04/02	14	Economic	Local	WIND	14	
04/02	14	Economic	System	SOLR	1184	1430
04/02	14	Economic	System	WIND	144	184
04/02	15	Economic	Local	SOLR	1344	1114
04/02	15	Economic	Local	WIND	26	
04/02	15	Economic	System	SOLR	1827	2533
04/02	15	Economic	System	WIND	388	868
04/02	15	SelfSchCut	Local	SOLR	0	
04/02	16	Economic	Local	SOLR	1517	1237
04/02	16	Economic	Local	WIND	108	
04/02	16	Economic	System	SOLR	1601	2424
04/02	16	Economic	System	WIND	351	716

04/02	16	SelfSchCut	Local	SOLR	1	
04/02	17	Economic	Local	SOLR	1821	2959
04/02	17	Economic	Local	WIND	122	406
04/02	17	Economic	System	SOLR	457	256
04/02	17	Economic	System	WIND	68	18
04/02	18	Economic	Local	SOLR	457	1174
04/02	18	Economic	Local	WIND	0	5
04/02	18	Economic	System	SOLR	12	
04/02	18	Economic	System	WIND	2	
04/02	19	Economic	Local	SOLR	4	29

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.