

Wind and Solar Curtailment April 01, 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.

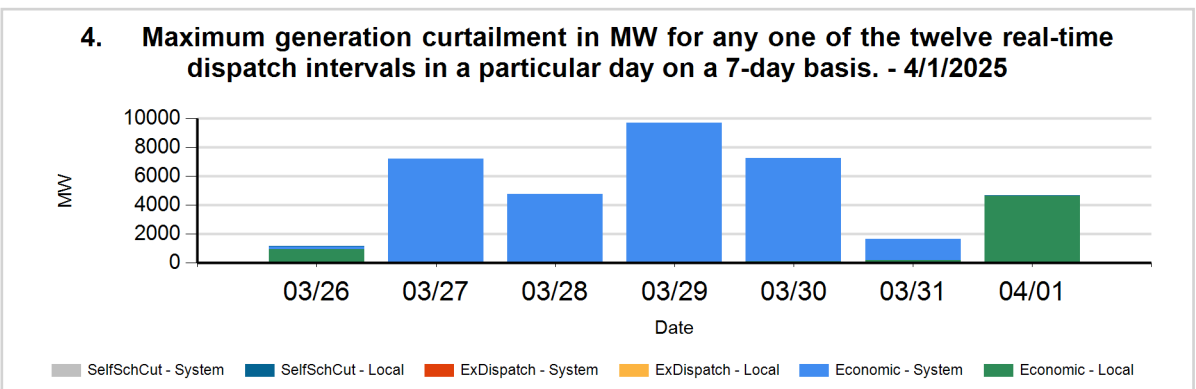
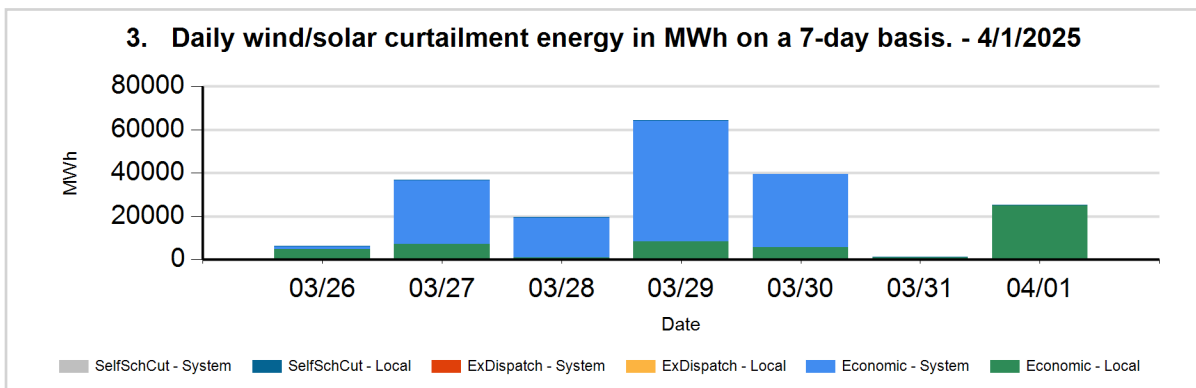
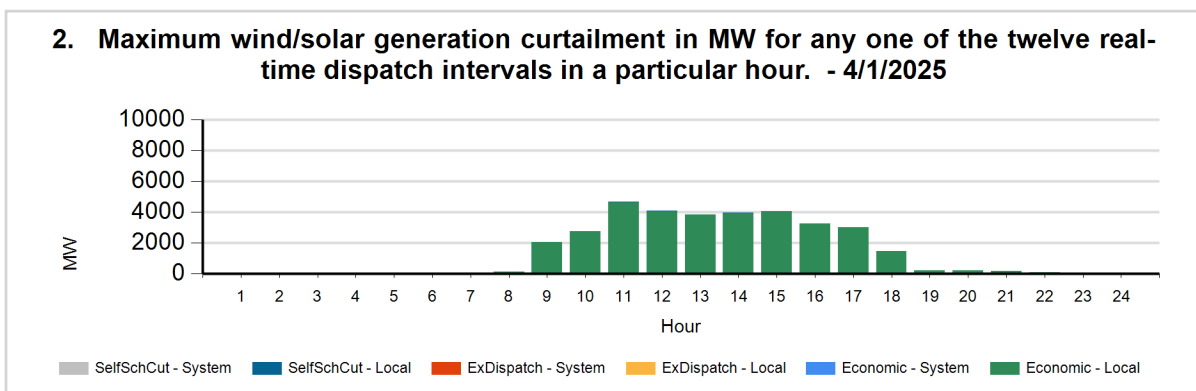
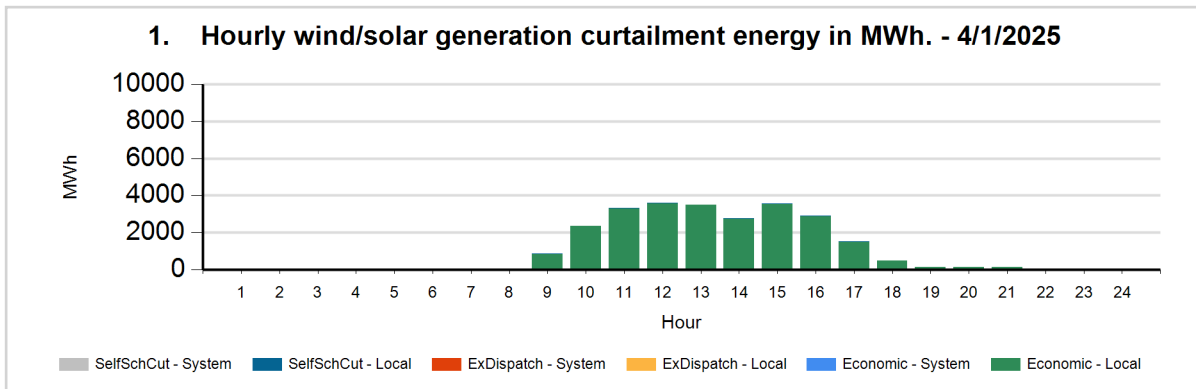
¹Only wind and solar resources can be reported in this manner because these resources have a forecast. Curtailment is defined as the difference between actual production and the forecast when actual production is less than the forecast.

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

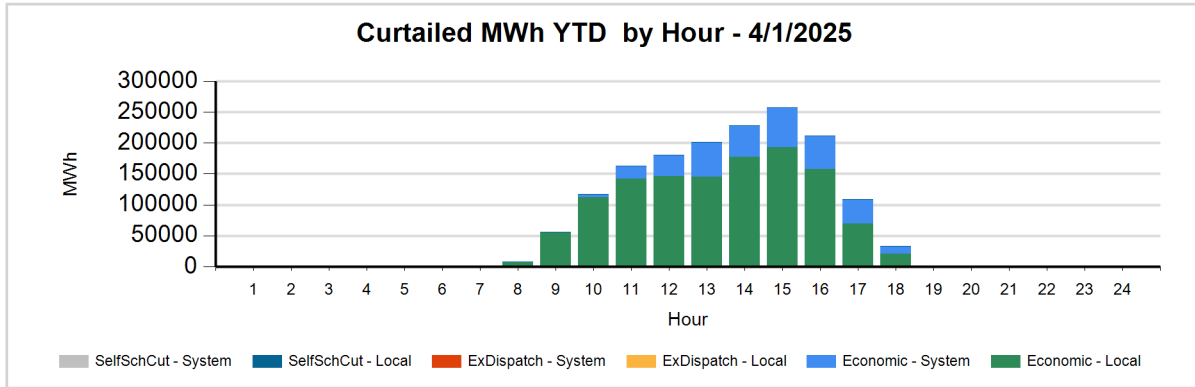
³Congestion occurs when available, least-cost energy cannot be delivered to some loads because transmission facilities do not have sufficient capacity to deliver the energy.

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

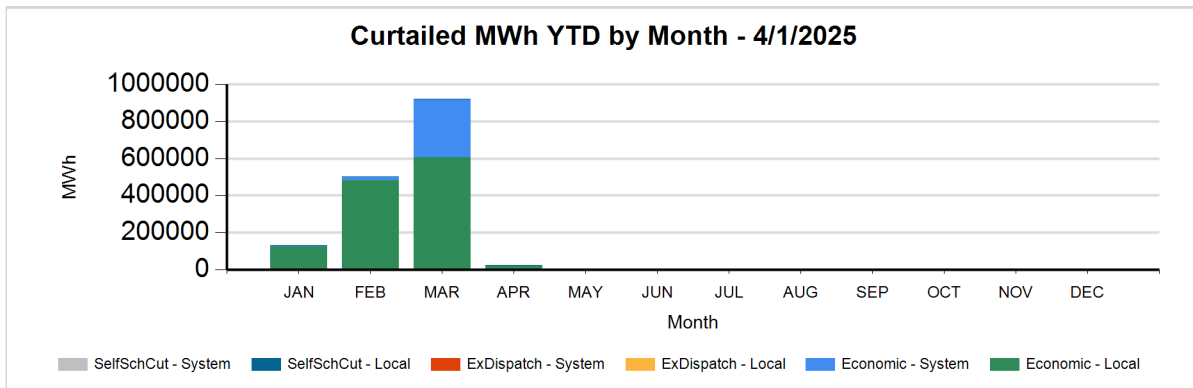
The following charts show the daily and 7-day wind and solar curtailment by category, if any.



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 - 4/1/2025
LocalEconomic	1,237,542
LocalSelfSchCut	212
SystemEconomic	339,368
TOTAL	1,577,122

Data used to produce hourly chart

DATE	HOUR	CURT TYPE	REASON	FUEL TYPE	CURTAILED MWH	CURTAILED MW
04/01	8	Economic	Local	SOLR	19	133
04/01	8	Economic	System	SOLR	4	
04/01	9	Economic	Local	SOLR	825	1910
04/01	9	Economic	Local	WIND	41	148
04/01	9	SelfSchCut	Local	SOLR	2	
04/01	10	Economic	Local	SOLR	2248	2640
04/01	10	Economic	Local	WIND	97	96
04/01	10	SelfSchCut	Local	SOLR	0	
04/01	11	Economic	Local	SOLR	2854	3814
04/01	11	Economic	Local	WIND	446	832
04/01	11	SelfSchCut	Local	SOLR	4	9
04/01	12	Economic	Local	SOLR	2970	3231
04/01	12	Economic	Local	WIND	623	839
04/01	12	SelfSchCut	Local	SOLR	8	16
04/01	13	Economic	Local	SOLR	2787	3112
04/01	13	Economic	Local	WIND	695	727
04/01	13	Economic	System	SOLR	0	
04/01	13	SelfSchCut	Local	SOLR	0	
04/01	14	Economic	Local	SOLR	2192	2875
04/01	14	Economic	Local	WIND	567	1078
04/01	14	Economic	System	SOLR	5	
04/01	14	SelfSchCut	Local	SOLR	2	3
04/01	15	Economic	Local	SOLR	2730	3023
04/01	15	Economic	Local	WIND	824	1000
04/01	15	Economic	System	SOLR	11	6
04/01	15	SelfSchCut	Local	SOLR	5	5
04/01	16	Economic	Local	SOLR	2257	2353
04/01	16	Economic	Local	WIND	644	899
04/01	16	Economic	System	SOLR	4	
04/01	16	SelfSchCut	Local	SOLR	4	
04/01	17	Economic	Local	SOLR	1235	2587

04/01	17	Economic	Local	WIND	282	374
04/01	17	Economic	System	SOLR	0	
04/01	17	SelfSchCut	Local	SOLR	11	19
04/01	18	Economic	Local	SOLR	447	1397
04/01	18	Economic	Local	WIND	28	48
04/01	19	Economic	Local	WIND	137	208
04/01	20	Economic	Local	WIND	139	203
04/01	21	Economic	Local	WIND	136	169
04/01	22	Economic	Local	WIND	33	91
04/01	23	Economic	Local	WIND	2	16

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.