

Wind and Solar Curtailment April 24, 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.

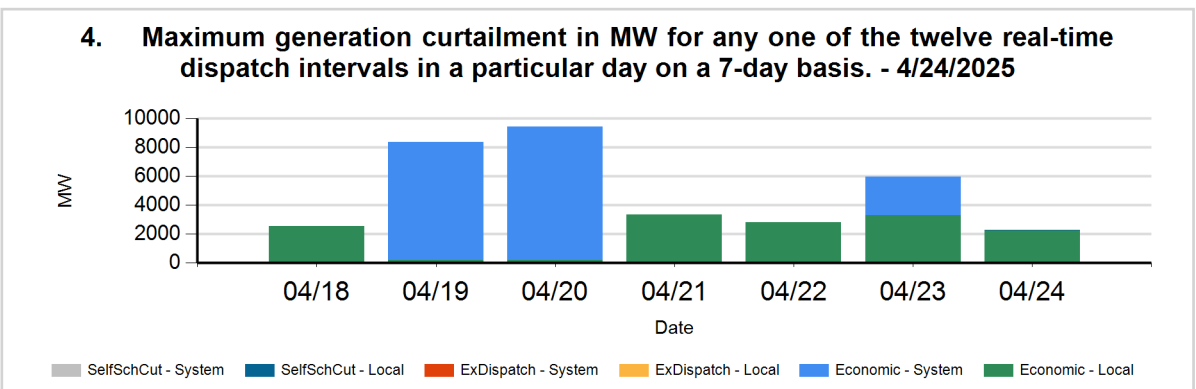
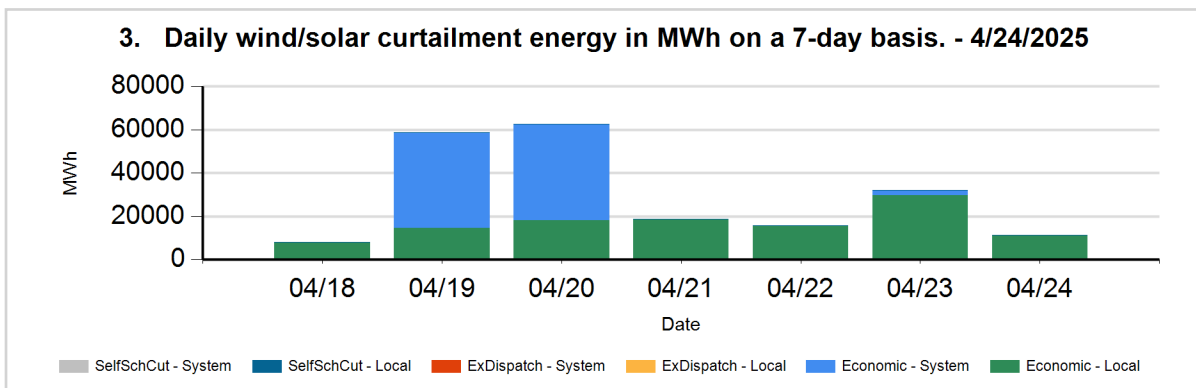
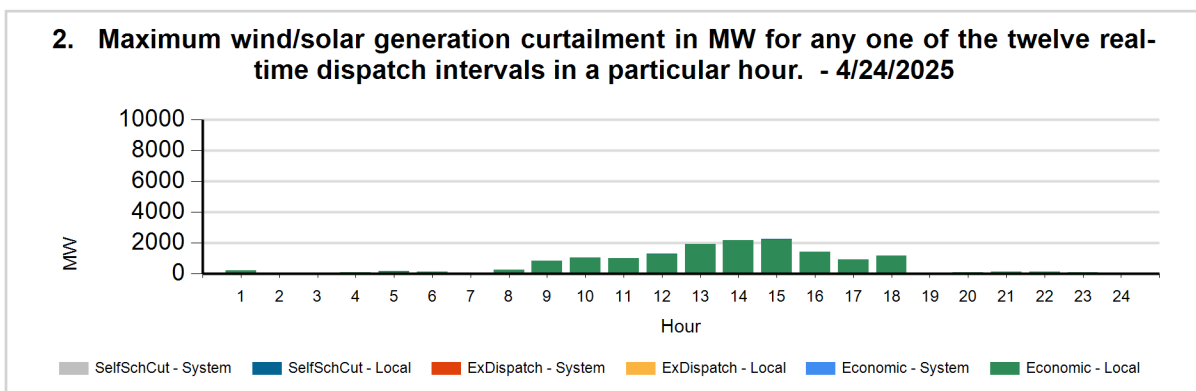
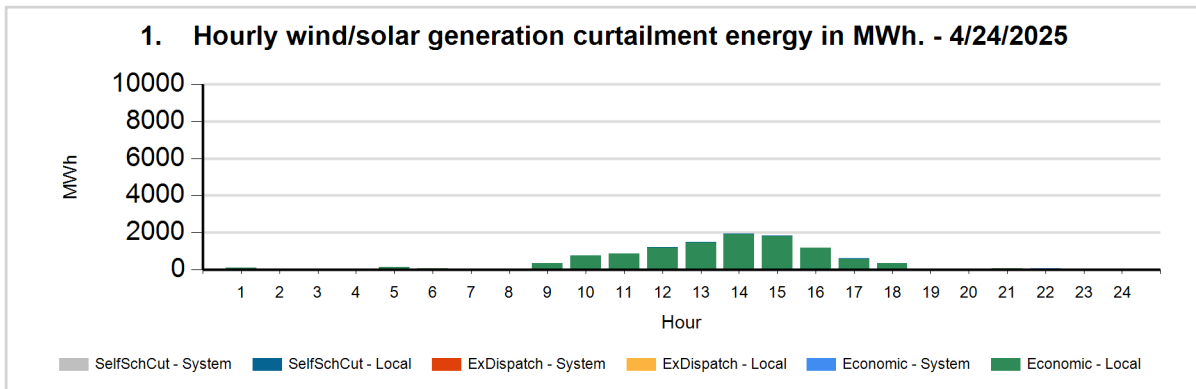
¹Only wind and solar resources can be reported in this manner because these resources have a forecast. Curtailment is defined as the difference between actual production and the forecast when actual production is less than the forecast.

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

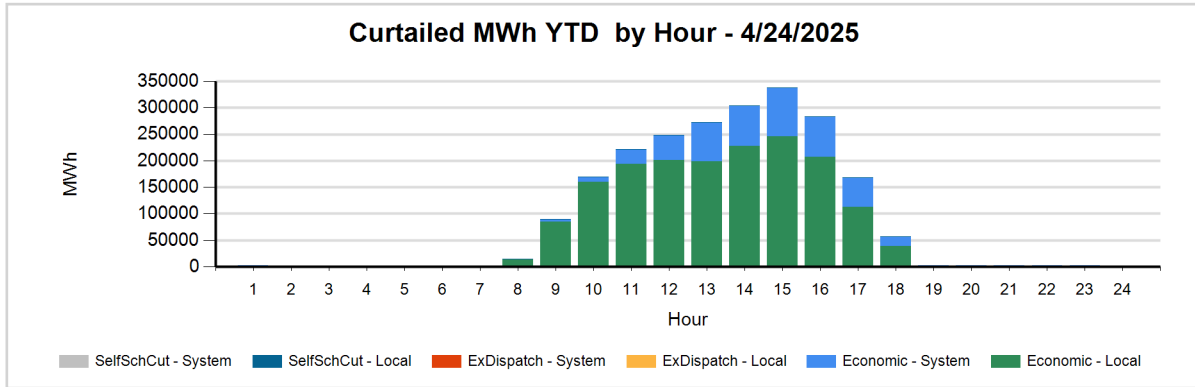
³Congestion occurs when available, least-cost energy cannot be delivered to some loads because transmission facilities do not have sufficient capacity to deliver the energy.

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

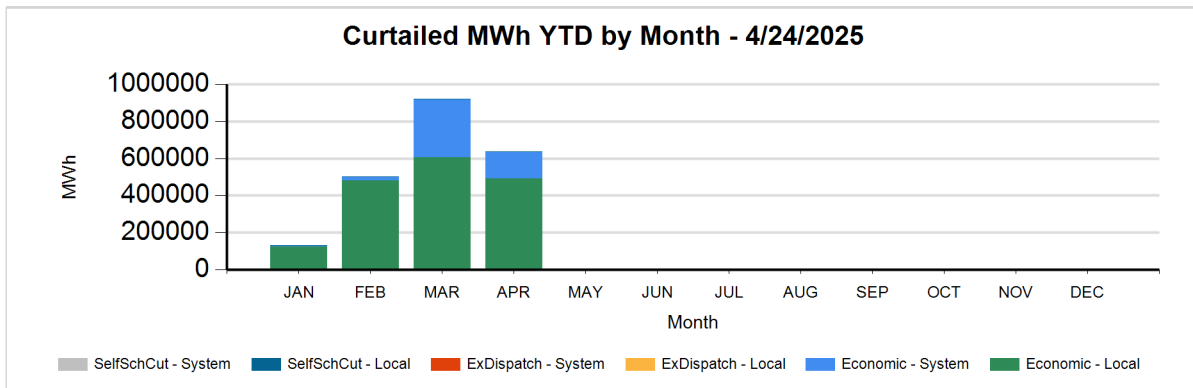
The following charts show the daily and 7-day wind and solar curtailment by category, if any.



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 - 4/24/2025
LocalEconomic	1,703,270
LocalSelfSchCut	412
SystemEconomic	484,423
TOTAL	2,188,104

Data used to produce hourly chart

DATE	HOUR	CURT TYPE	REASON	FUEL TYPE	CURTAILED MWH	CURTAILED MW
04/24	1	Economic	Local	WIND	91	211
04/24	2	Economic	Local	WIND	9	33
04/24	4	Economic	Local	WIND	26	84
04/24	5	Economic	Local	WIND	127	147
04/24	6	Economic	Local	WIND	77	102
04/24	7	Economic	Local	WIND	13	40
04/24	8	Economic	Local	SOLR	44	237
04/24	9	Economic	Local	SOLR	345	813
04/24	10	Economic	Local	SOLR	723	1025
04/24	10	Economic	Local	WIND	42	
04/24	11	Economic	Local	SOLR	861	1003
04/24	12	Economic	Local	SOLR	1205	1303
04/24	12	SelfSchCut	Local	SOLR	3	5
04/24	13	Economic	Local	SOLR	1488	1896
04/24	13	SelfSchCut	Local	SOLR	2	
04/24	14	Economic	Local	SOLR	1936	2167
04/24	14	SelfSchCut	Local	SOLR	2	
04/24	15	Economic	Local	SOLR	1832	2254
04/24	15	Economic	Local	WIND	4	
04/24	15	SelfSchCut	Local	SOLR	2	4
04/24	16	Economic	Local	SOLR	1183	1426
04/24	17	Economic	Local	SOLR	604	888
04/24	17	Economic	Local	WIND	22	17
04/24	17	Economic	System	SOLR	8	
04/24	18	Economic	Local	SOLR	348	1113
04/24	18	Economic	Local	WIND	7	43
04/24	19	Economic	Local	WIND	0	2
04/24	20	Economic	Local	WIND	46	97
04/24	21	Economic	Local	WIND	59	136
04/24	22	Economic	Local	WIND	55	115
04/24	22	Economic	System	WIND	14	
04/24	23	Economic	Local	WIND	27	77
04/24	24	Economic	Local	WIND	7	30



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.