

Wind and Solar Curtailment May 07, 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.

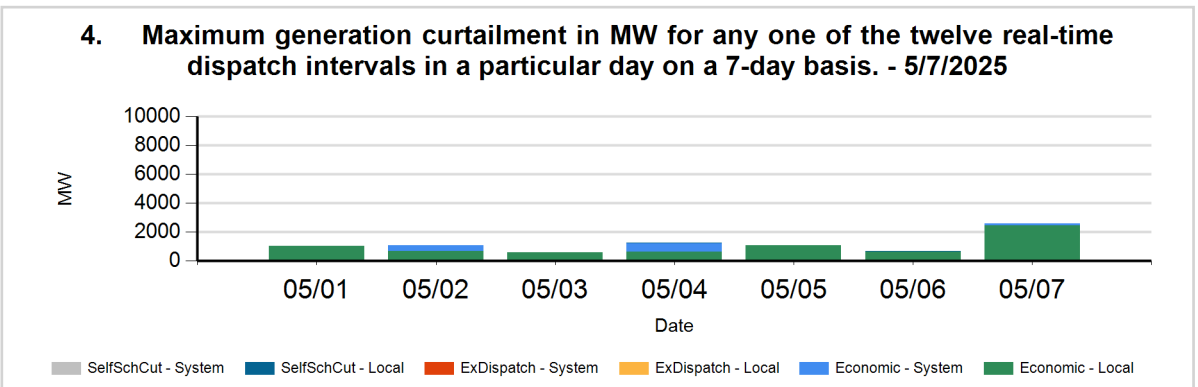
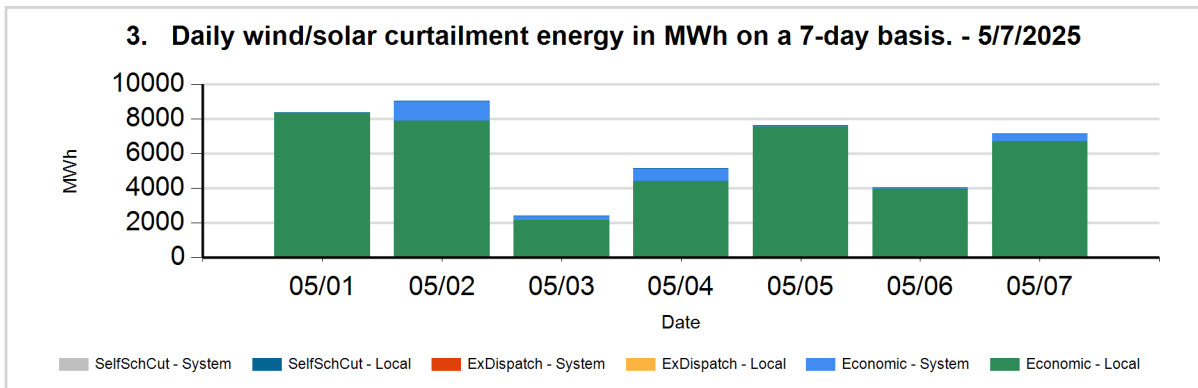
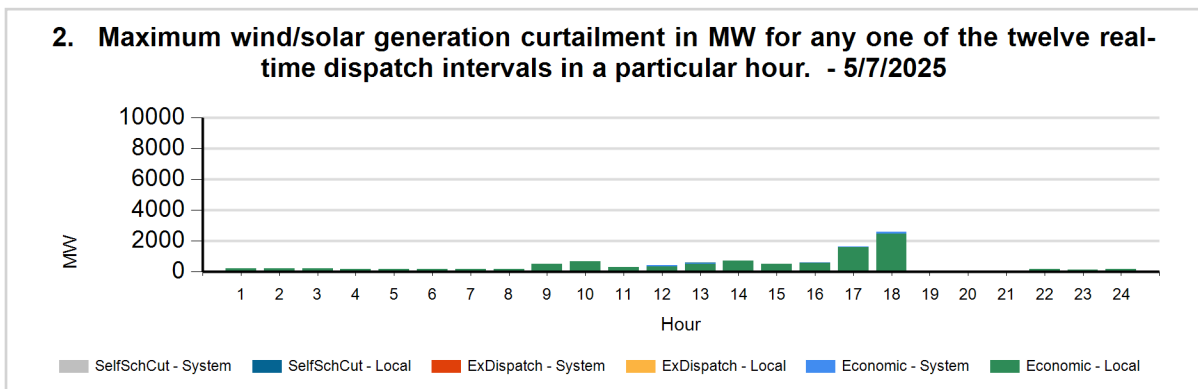
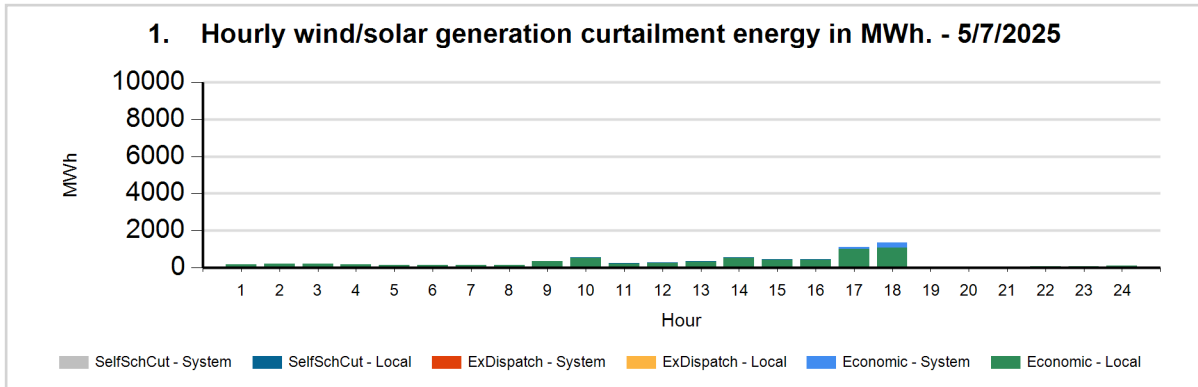
¹Only wind and solar resources can be reported in this manner because these resources have a forecast. Curtailment is defined as the difference between actual production and the forecast when actual production is less than the forecast.

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

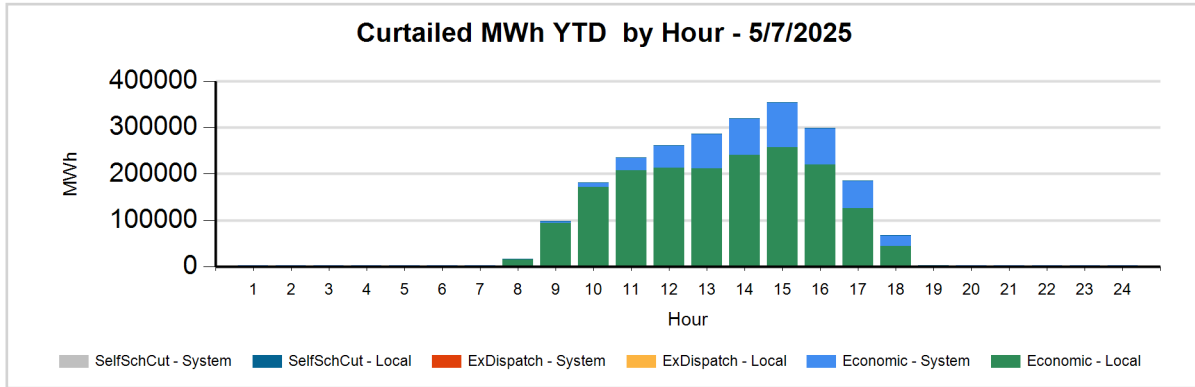
³Congestion occurs when available, least-cost energy cannot be delivered to some loads because transmission facilities do not have sufficient capacity to deliver the energy.

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

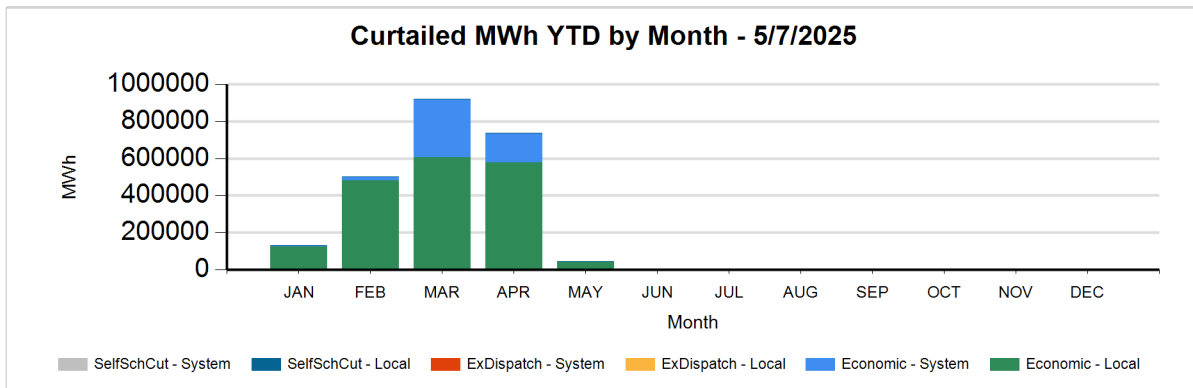
The following charts show the daily and 7-day wind and solar curtailment by category, if any.



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 - 5/7/2025
LocalEconomic	1,829,817
LocalSelfSchCut	803
SystemEconomic	503,153
TOTAL	2,333,773

Data used to produce hourly chart

DATE	HOUR	CURT TYPE	REASON	FUEL TYPE	CURTAILED MWH	CURTAILED MW
05/07	1	Economic	Local	WIND	185	195
05/07	2	Economic	Local	WIND	194	203
05/07	3	Economic	Local	WIND	188	199
05/07	4	Economic	Local	WIND	156	179
05/07	5	Economic	Local	WIND	149	170
05/07	6	Economic	Local	WIND	122	163
05/07	7	Economic	Local	WIND	125	176
05/07	8	Economic	Local	SOLR	2	
05/07	8	Economic	Local	WIND	130	165
05/07	9	Economic	Local	SOLR	195	325
05/07	9	Economic	Local	WIND	150	159
05/07	10	Economic	Local	SOLR	409	522
05/07	10	Economic	Local	WIND	146	159
05/07	10	SelfSchCut	Local	SOLR	2	
05/07	11	Economic	Local	SOLR	147	176
05/07	11	Economic	Local	WIND	79	124
05/07	11	SelfSchCut	Local	SOLR	2	
05/07	12	Economic	Local	SOLR	255	348
05/07	12	Economic	Local	WIND	1	
05/07	12	Economic	System	SOLR	25	84
05/07	12	SelfSchCut	Local	SOLR	5	
05/07	13	Economic	Local	SOLR	326	511
05/07	13	Economic	System	SOLR	11	77
05/07	13	SelfSchCut	Local	SOLR	6	10
05/07	14	Economic	Local	SOLR	549	707
05/07	14	Economic	System	SOLR	7	
05/07	14	SelfSchCut	Local	SOLR	2	
05/07	15	Economic	Local	SOLR	445	498
05/07	15	SelfSchCut	Local	SOLR	2	
05/07	16	Economic	Local	SOLR	423	582
05/07	16	Economic	Local	WIND	15	

05/07	16	Economic	System	SOLR	15	
05/07	16	Economic	System	WIND	3	
05/07	16	SelfSchCut	Local	SOLR	1	7
05/07	17	Economic	Local	SOLR	946	1497
05/07	17	Economic	Local	WIND	68	110
05/07	17	Economic	System	SOLR	51	
05/07	17	Economic	System	WIND	29	28
05/07	18	Economic	Local	SOLR	1023	2378
05/07	18	Economic	Local	WIND	36	73
05/07	18	Economic	System	SOLR	222	7
05/07	18	Economic	System	WIND	52	132
05/07	19	Economic	Local	WIND	8	16
05/07	20	Economic	Local	SOLR	5	22
05/07	22	Economic	Local	WIND	57	144
05/07	23	Economic	Local	WIND	79	124
05/07	24	Economic	Local	WIND	85	181

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.