

Wind and Solar Curtailment May 23, 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.

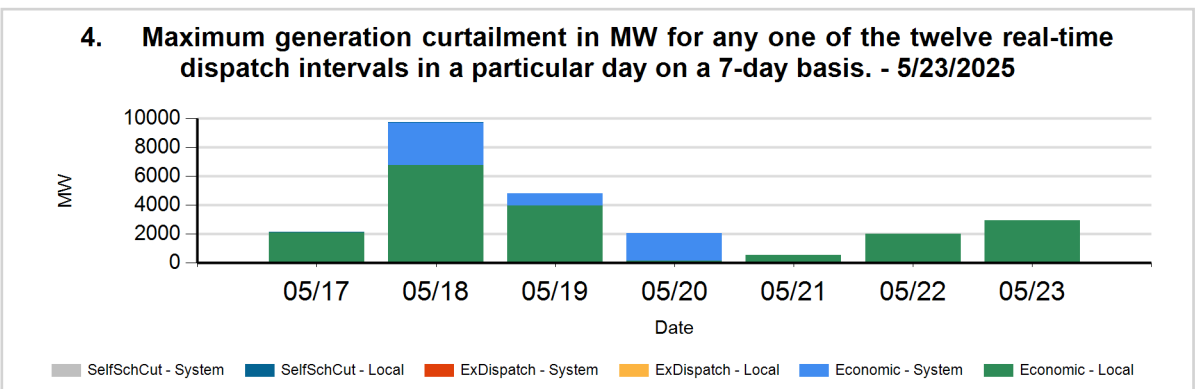
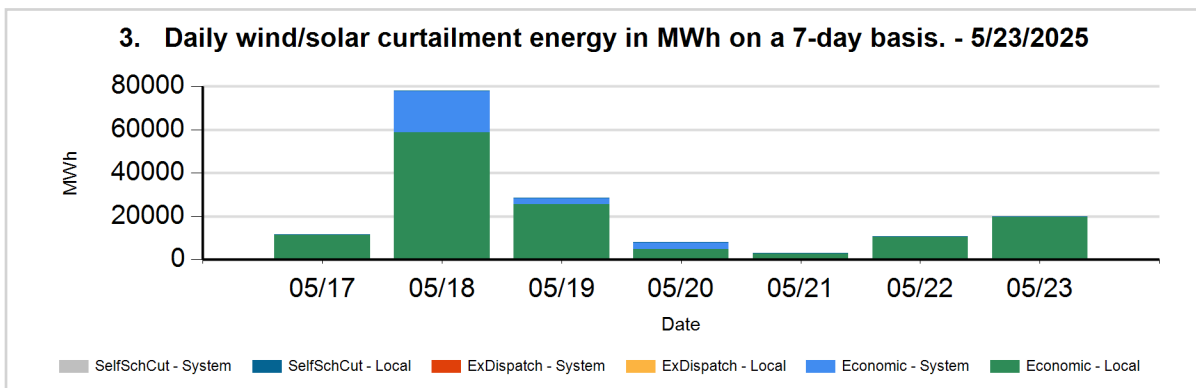
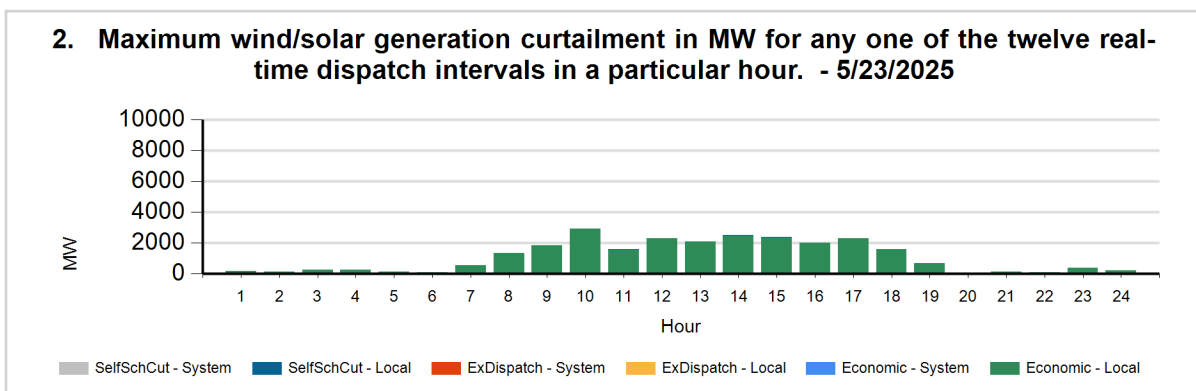
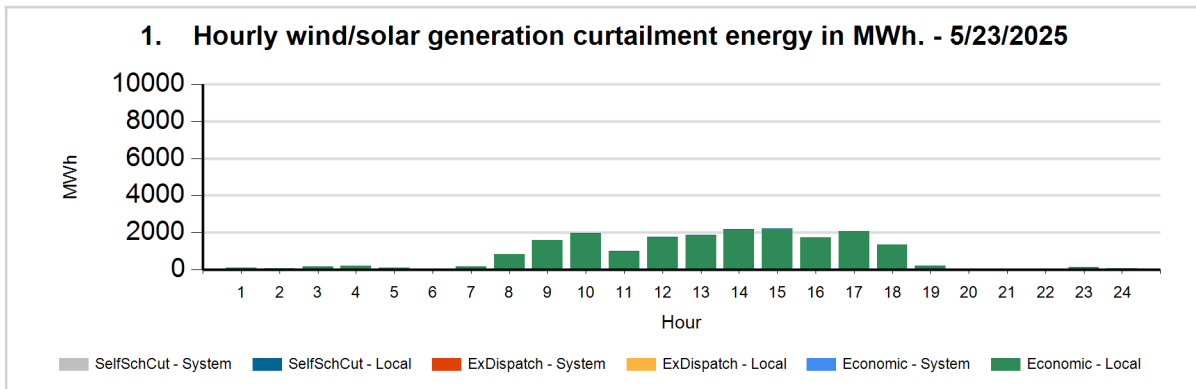
¹Only wind and solar resources can be reported in this manner because these resources have a forecast. Curtailment is defined as the difference between actual production and the forecast when actual production is less than the forecast.

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

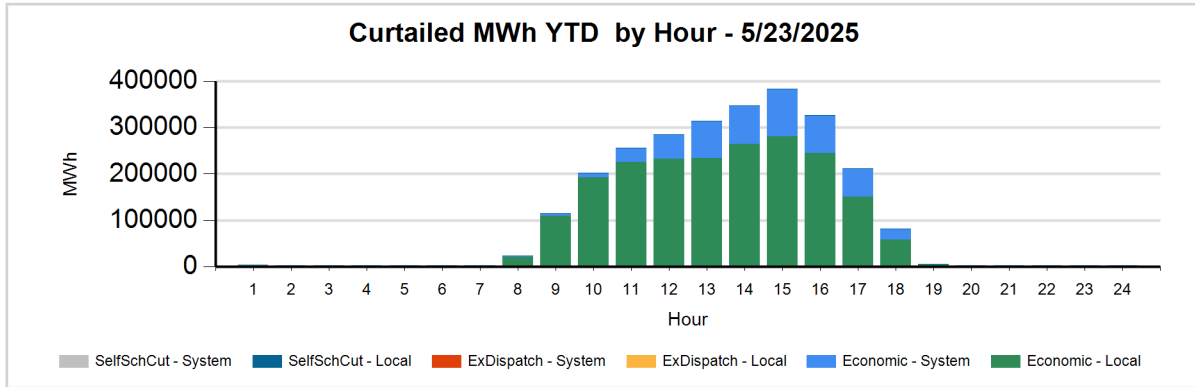
³Congestion occurs when available, least-cost energy cannot be delivered to some loads because transmission facilities do not have sufficient capacity to deliver the energy.

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

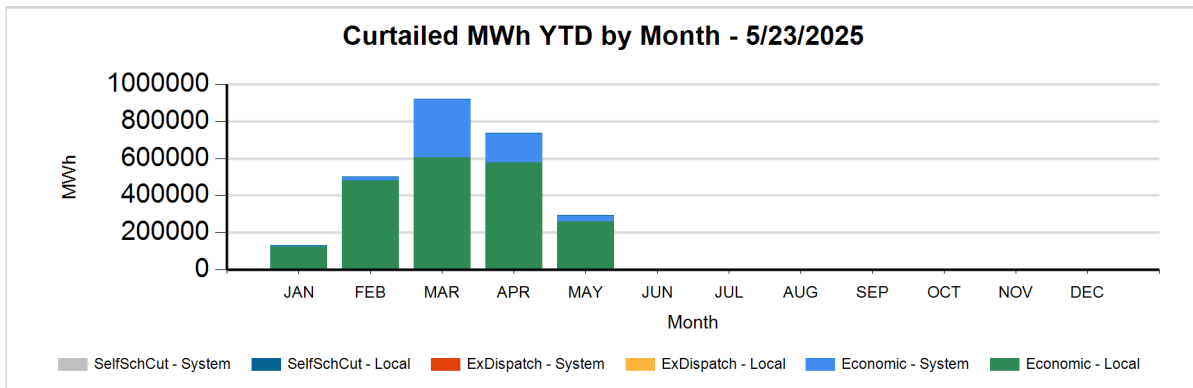
The following charts show the daily and 7-day wind and solar curtailment by category, if any.



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 - 5/23/2025
LocalEconomic	2,049,434
LocalSelfSchCut	1,167
SystemEconomic	534,116
TOTAL	2,584,716

Data used to produce hourly chart

DATE	HOUR	CURT TYPE	REASON	FUEL TYPE	CURTAILED MWH	CURTAILED MW
05/23	1	Economic	Local	WIND	117	175
05/23	2	Economic	Local	WIND	78	134
05/23	3	Economic	Local	WIND	181	225
05/23	4	Economic	Local	WIND	200	227
05/23	5	Economic	Local	WIND	87	125
05/23	6	Economic	Local	WIND	43	72
05/23	7	Economic	Local	SOLR	52	205
05/23	7	Economic	Local	WIND	113	331
05/23	8	Economic	Local	SOLR	646	1173
05/23	8	Economic	Local	WIND	178	170
05/23	9	Economic	Local	SOLR	1271	1442
05/23	9	Economic	Local	WIND	322	370
05/23	10	Economic	Local	SOLR	1829	2768
05/23	10	Economic	Local	WIND	143	143
05/23	10	SelfSchCut	Local	SOLR	1	
05/23	11	Economic	Local	SOLR	913	1469
05/23	11	Economic	Local	WIND	62	124
05/23	11	Economic	System	SOLR	38	
05/23	11	SelfSchCut	Local	SOLR	4	4
05/23	12	Economic	Local	SOLR	1692	2097
05/23	12	Economic	Local	WIND	75	188
05/23	12	SelfSchCut	Local	SOLR	2	
05/23	13	Economic	Local	SOLR	1757	1980
05/23	13	Economic	Local	WIND	97	109
05/23	13	SelfSchCut	Local	SOLR	4	
05/23	14	Economic	Local	SOLR	2044	2390
05/23	14	Economic	Local	WIND	143	111
05/23	14	SelfSchCut	Local	SOLR	4	11
05/23	15	Economic	Local	SOLR	2049	2240
05/23	15	Economic	Local	WIND	166	124
05/23	15	SelfSchCut	Local	SOLR	3	12

05/23	16	Economic	Local	SOLR	1510	1811
05/23	16	Economic	Local	WIND	210	200
05/23	16	SelfSchCut	Local	SOLR	3	
05/23	17	Economic	Local	SOLR	1647	1836
05/23	17	Economic	Local	WIND	419	450
05/23	17	SelfSchCut	Local	SOLR	0	
05/23	18	Economic	Local	SOLR	909	1108
05/23	18	Economic	Local	WIND	449	454
05/23	19	Economic	Local	SOLR	90	431
05/23	19	Economic	Local	WIND	101	216
05/23	19	Economic	System	SOLR	5	
05/23	19	SelfSchCut	Local	SOLR	3	14
05/23	20	Economic	Local	SOLR	3	31
05/23	20	Economic	System	SOLR	4	
05/23	21	Economic	Local	WIND	17	110
05/23	22	Economic	Local	WIND	31	83
05/23	23	Economic	Local	WIND	146	382
05/23	24	Economic	Local	WIND	69	194

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.