

Wind and Solar Curtailment May 15, 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.

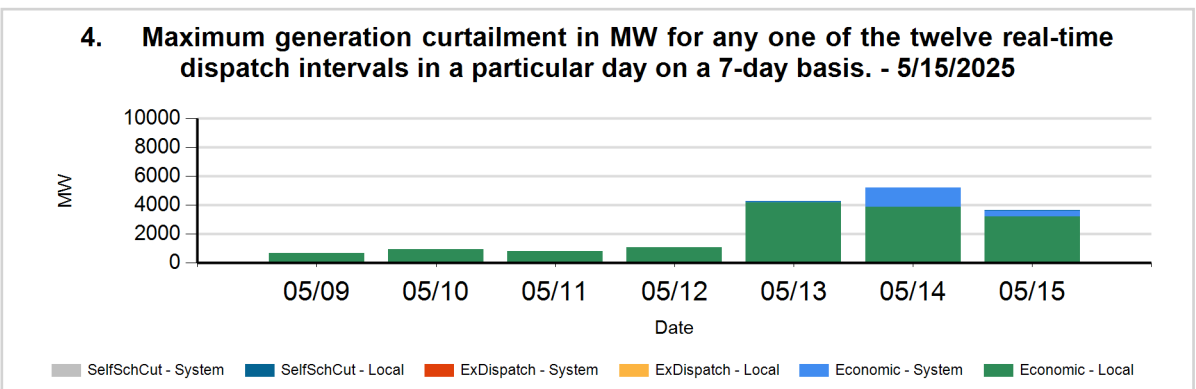
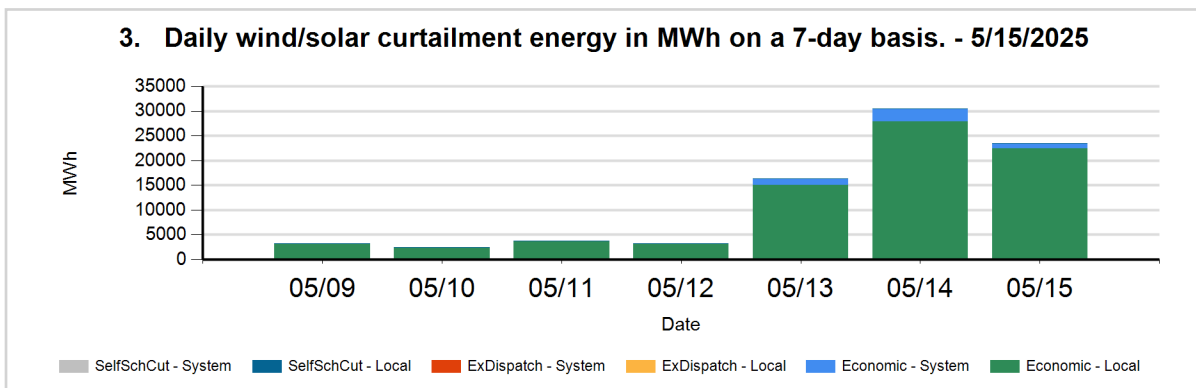
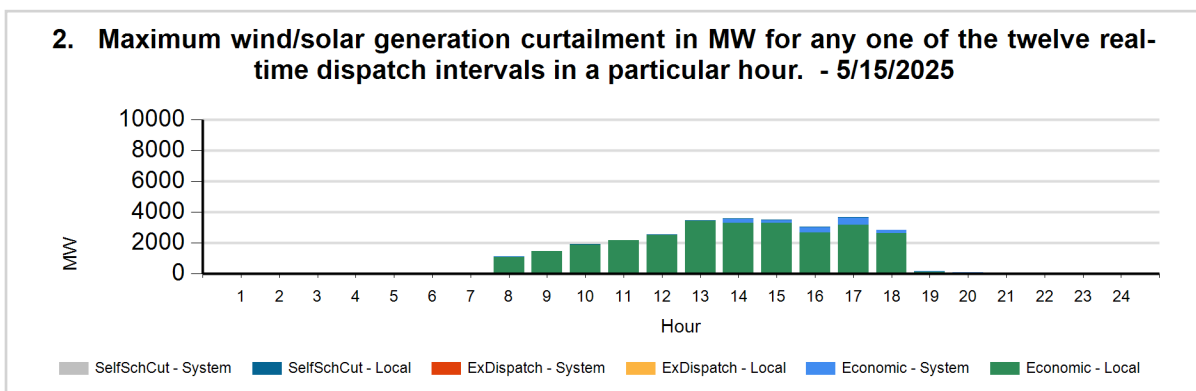
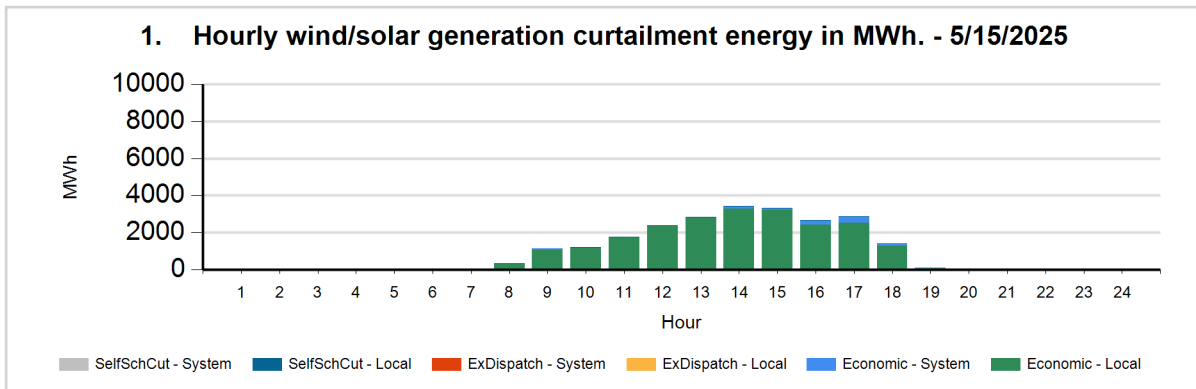
¹Only wind and solar resources can be reported in this manner because these resources have a forecast. Curtailment is defined as the difference between actual production and the forecast when actual production is less than the forecast.

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

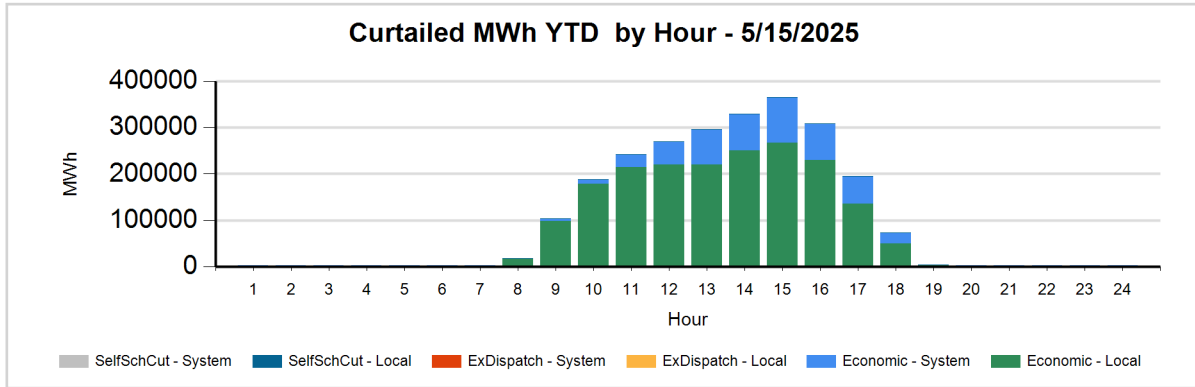
³Congestion occurs when available, least-cost energy cannot be delivered to some loads because transmission facilities do not have sufficient capacity to deliver the energy.

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

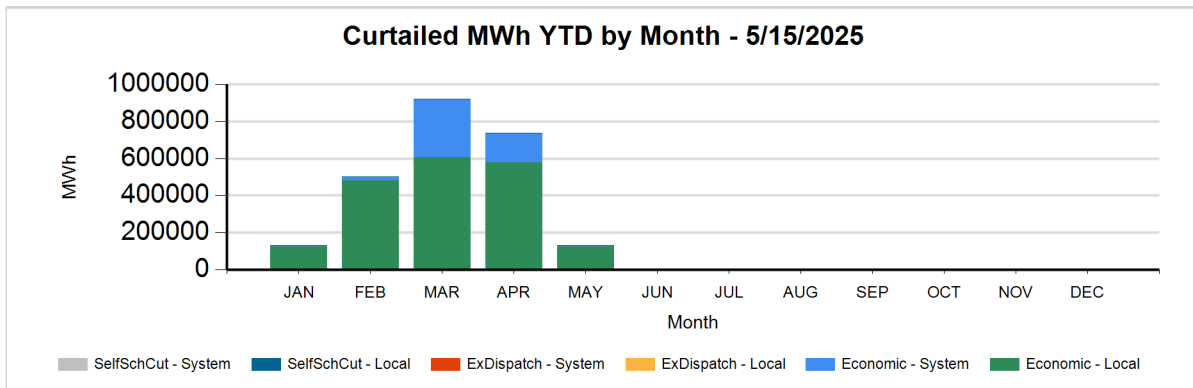
The following charts show the daily and 7-day wind and solar curtailment by category, if any.



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 - 5/15/2025
LocalEconomic	1,912,009
LocalSelfSchCut	974
SystemEconomic	508,364
TOTAL	2,421,346

Data used to produce hourly chart

DATE	HOUR	CURT TYPE	REASON	FUEL TYPE	CURTAILED MWH	CURTAILED MW
05/15	7	Economic	Local	SOLR	0	3
05/15	8	Economic	Local	SOLR	355	1113
05/15	8	Economic	Local	WIND	0	2
05/15	8	Economic	System	SOLR	0	5
05/15	9	Economic	Local	SOLR	1081	1471
05/15	9	Economic	System	SOLR	55	
05/15	10	Economic	Local	SOLR	1214	1887
05/15	10	SelfSchCut	Local	SOLR	7	10
05/15	11	Economic	Local	SOLR	1757	2160
05/15	11	SelfSchCut	Local	SOLR	10	
05/15	12	Economic	Local	SOLR	2368	2531
05/15	12	Economic	Local	WIND	4	
05/15	12	SelfSchCut	Local	SOLR	13	10
05/15	13	Economic	Local	SOLR	2776	3381
05/15	13	Economic	Local	WIND	33	64
05/15	13	SelfSchCut	Local	SOLR	10	23
05/15	14	Economic	Local	SOLR	3226	3168
05/15	14	Economic	Local	WIND	62	135
05/15	14	Economic	System	SOLR	136	255
05/15	14	SelfSchCut	Local	SOLR	14	20
05/15	15	Economic	Local	SOLR	3162	3232
05/15	15	Economic	Local	WIND	39	50
05/15	15	Economic	System	SOLR	104	211
05/15	15	SelfSchCut	Local	SOLR	16	9
05/15	16	Economic	Local	SOLR	2362	2610
05/15	16	Economic	Local	WIND	48	52
05/15	16	Economic	System	SOLR	250	382
05/15	16	Economic	System	WIND	4	5
05/15	16	SelfSchCut	Local	SOLR	11	10
05/15	17	Economic	Local	SOLR	2417	3119
05/15	17	Economic	Local	WIND	112	58

05/15	17	Economic	System	SOLR	342	464
05/15	17	Economic	System	WIND	5	8
05/15	17	SelfSchCut	Local	SOLR	9	10
05/15	18	Economic	Local	SOLR	1154	2355
05/15	18	Economic	Local	WIND	123	254
05/15	18	Economic	System	SOLR	119	212
05/15	18	Economic	System	WIND	8	18
05/15	19	Economic	Local	SOLR	61	134
05/15	19	Economic	Local	WIND	11	6
05/15	19	Economic	System	SOLR	14	10
05/15	20	Economic	Local	SOLR	3	24
05/15	20	Economic	Local	WIND	8	11
05/15	20	Economic	System	SOLR	12	33
05/15	21	Economic	Local	WIND	4	11
05/15	22	Economic	Local	WIND	0	3

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.