

Wind and Solar Curtailment May 22, 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.

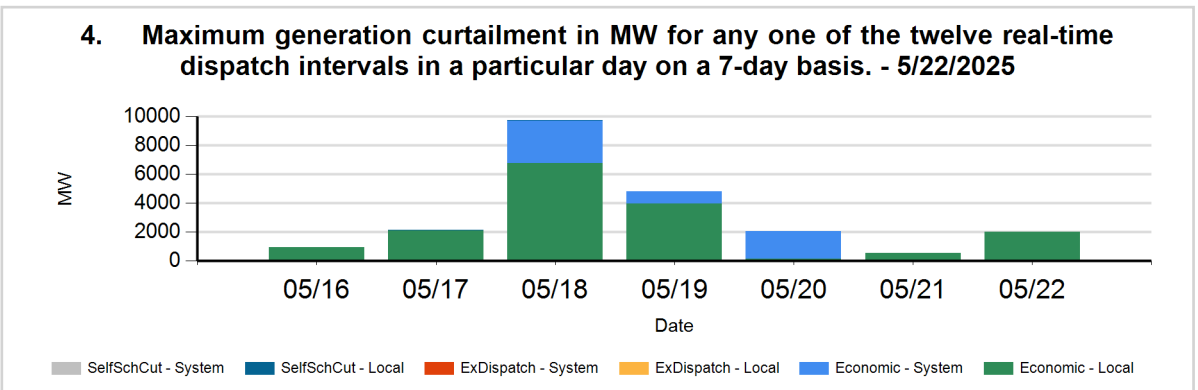
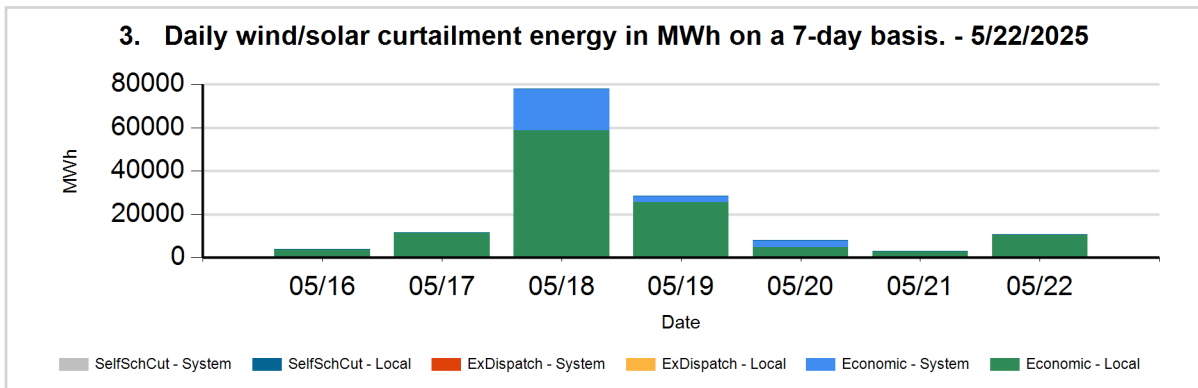
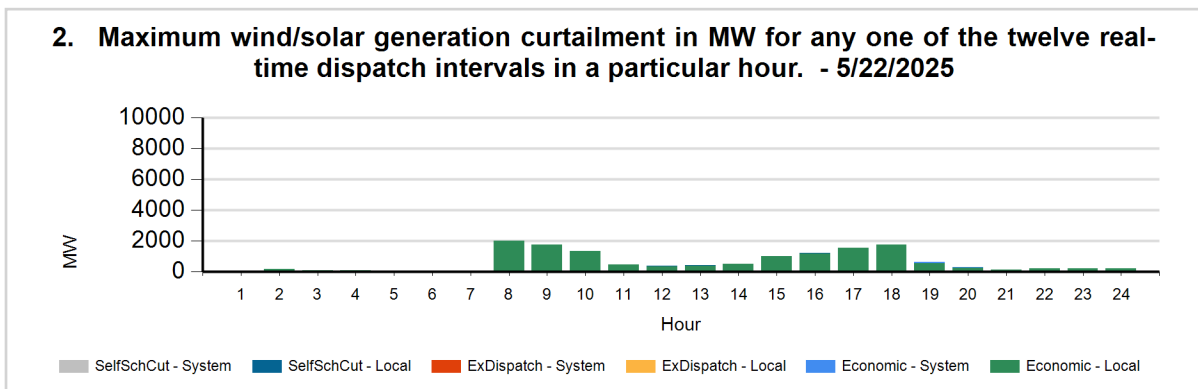
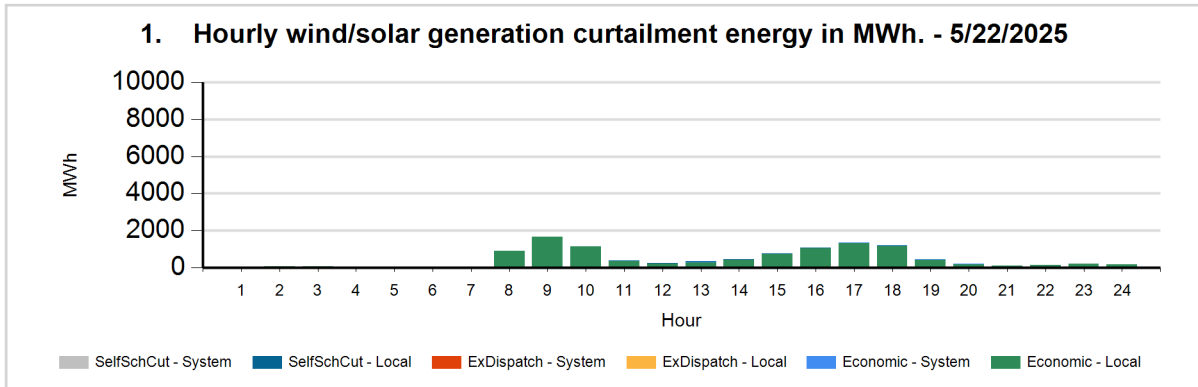
¹Only wind and solar resources can be reported in this manner because these resources have a forecast. Curtailment is defined as the difference between actual production and the forecast when actual production is less than the forecast.

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

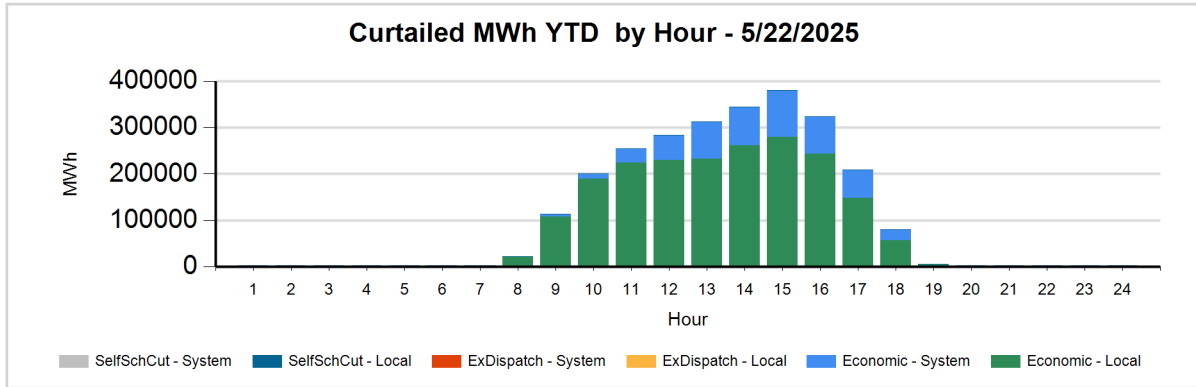
³Congestion occurs when available, least-cost energy cannot be delivered to some loads because transmission facilities do not have sufficient capacity to deliver the energy.

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

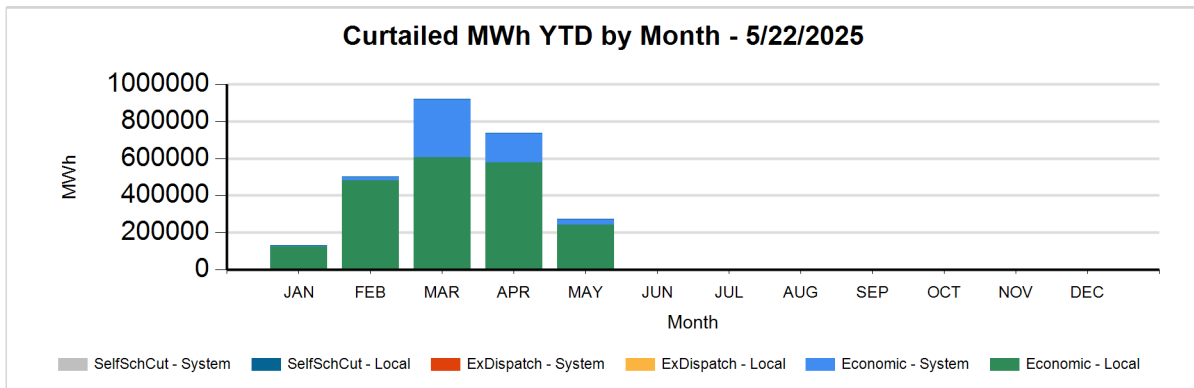
The following charts show the daily and 7-day wind and solar curtailment by category, if any.



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 - 5/22/2025
LocalEconomic	2,029,575
LocalSelfSchCut	1,142
SystemEconomic	534,069
TOTAL	2,564,785

Data used to produce hourly chart

DATE	HOUR	CURT TYPE	REASON	FUEL TYPE	CURTAILED MWH	CURTAILED MW
05/22	2	Economic	Local	WIND	55	147
05/22	3	Economic	Local	WIND	48	82
05/22	4	Economic	Local	WIND	6	62
05/22	5	Economic	Local	WIND	1	6
05/22	6	Economic	Local	WIND	1	8
05/22	8	Economic	Local	SOLR	814	1807
05/22	8	Economic	Local	WIND	82	193
05/22	9	Economic	Local	SOLR	1547	1658
05/22	9	Economic	Local	WIND	118	108
05/22	10	Economic	Local	SOLR	1111	1330
05/22	10	Economic	Local	WIND	14	2
05/22	10	SelfSchCut	Local	SOLR	0	
05/22	11	Economic	Local	SOLR	379	461
05/22	11	Economic	System	SOLR	3	
05/22	11	SelfSchCut	Local	SOLR	1	
05/22	12	Economic	Local	SOLR	224	349
05/22	12	SelfSchCut	Local	SOLR	4	15
05/22	13	Economic	Local	SOLR	287	305
05/22	13	Economic	Local	WIND	26	109
05/22	13	Economic	System	SOLR	10	
05/22	13	SelfSchCut	Local	SOLR	5	9
05/22	14	Economic	Local	SOLR	336	403
05/22	14	Economic	Local	WIND	94	108
05/22	14	SelfSchCut	Local	SOLR	2	
05/22	15	Economic	Local	SOLR	579	754
05/22	15	Economic	Local	WIND	180	225
05/22	15	SelfSchCut	Local	SOLR	3	
05/22	16	Economic	Local	SOLR	776	797
05/22	16	Economic	Local	WIND	288	376
05/22	16	Economic	System	SOLR	3	18
05/22	16	SelfSchCut	Local	SOLR	1	7

05/22	17	Economic	Local	SOLR	786	970
05/22	17	Economic	Local	WIND	546	562
05/22	17	Economic	System	SOLR	2	
05/22	18	Economic	Local	SOLR	635	1145
05/22	18	Economic	Local	WIND	561	610
05/22	18	Economic	System	SOLR	4	
05/22	19	Economic	Local	SOLR	101	119
05/22	19	Economic	Local	WIND	336	414
05/22	19	Economic	System	SOLR	18	68
05/22	20	Economic	Local	SOLR	2	
05/22	20	Economic	Local	WIND	190	227
05/22	20	Economic	System	SOLR	13	47
05/22	21	Economic	Local	WIND	114	132
05/22	22	Economic	Local	WIND	140	194
05/22	23	Economic	Local	WIND	192	218
05/22	24	Economic	Local	WIND	172	204

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.