

Wind and Solar Curtailment May 17, 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.

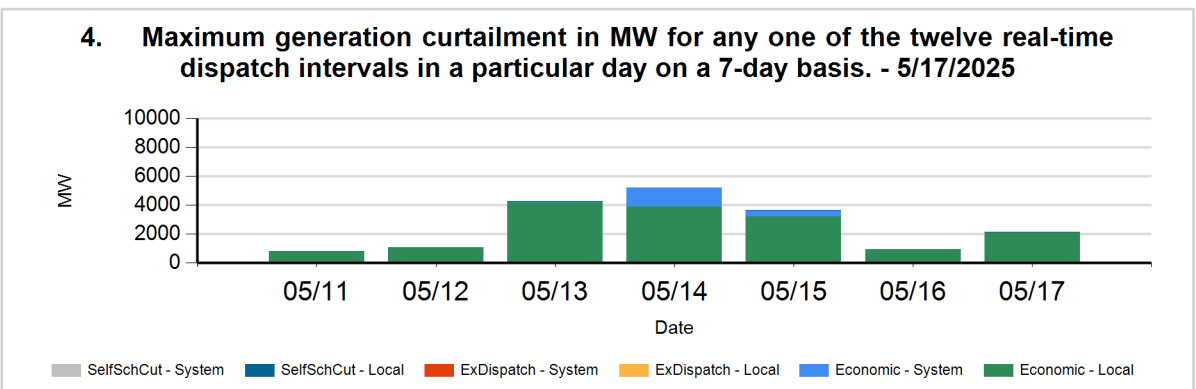
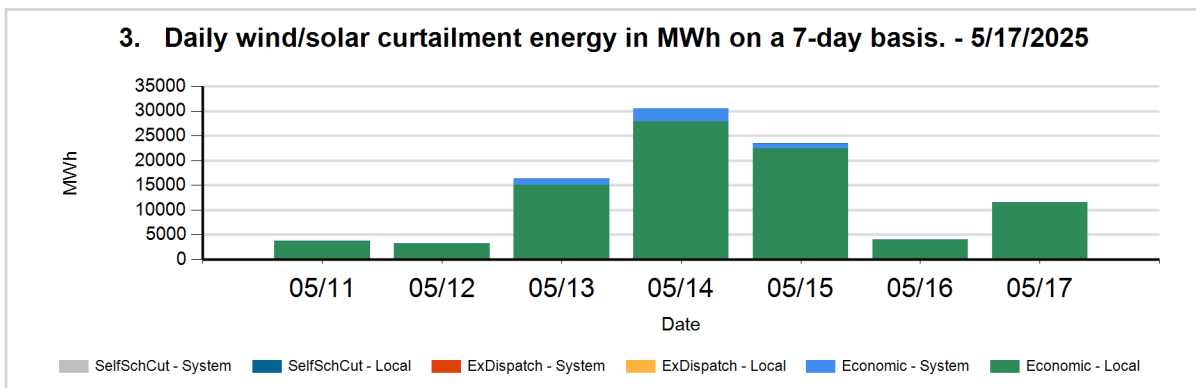
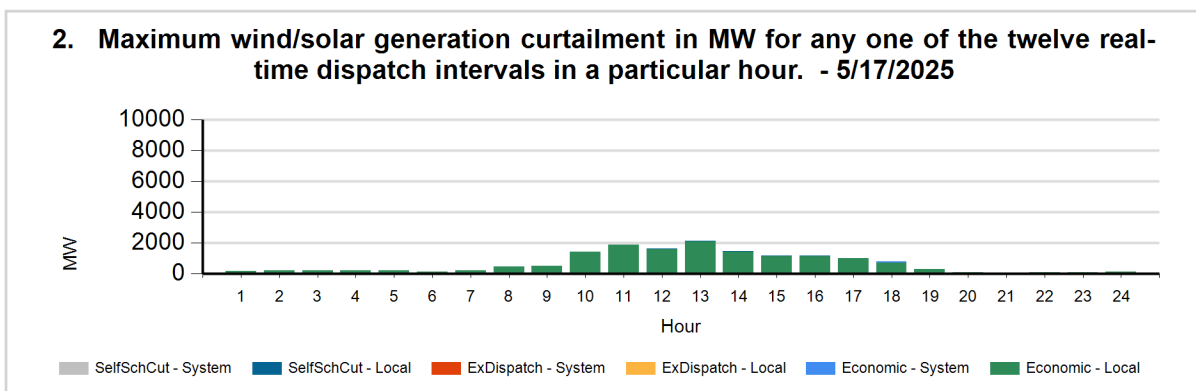
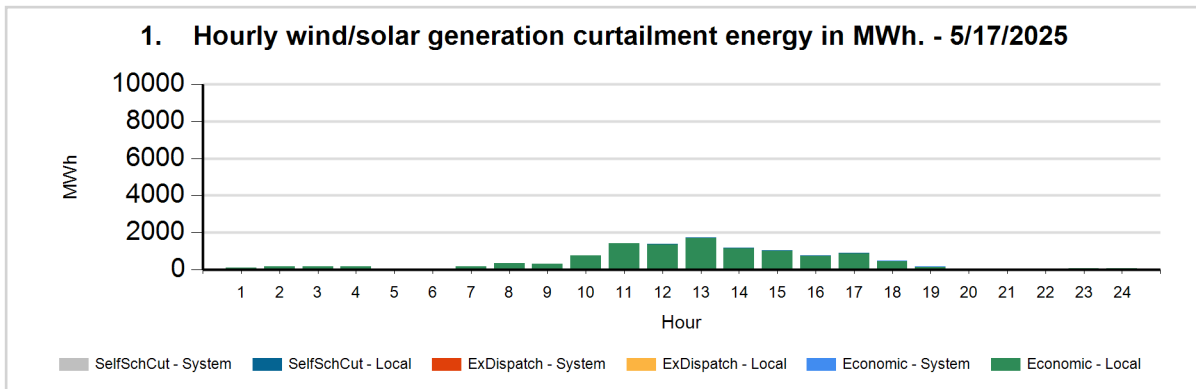
¹Only wind and solar resources can be reported in this manner because these resources have a forecast. Curtailment is defined as the difference between actual production and the forecast when actual production is less than the forecast.

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

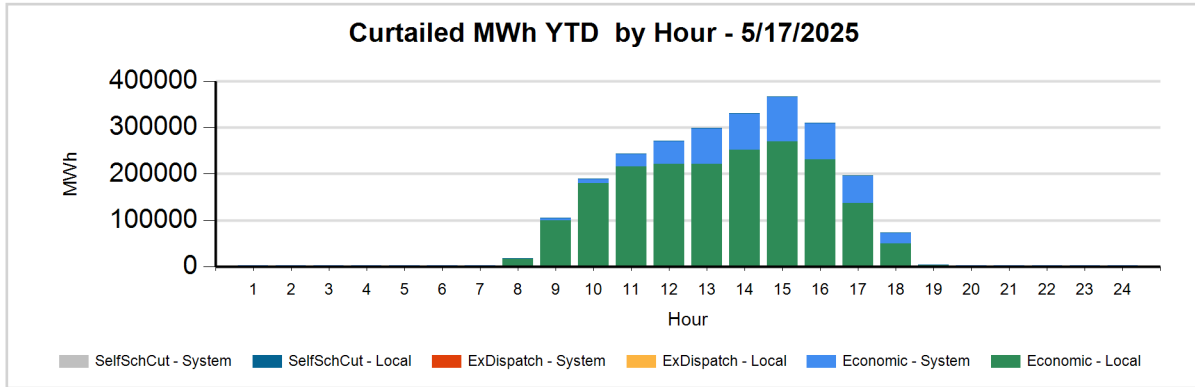
³Congestion occurs when available, least-cost energy cannot be delivered to some loads because transmission facilities do not have sufficient capacity to deliver the energy.

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

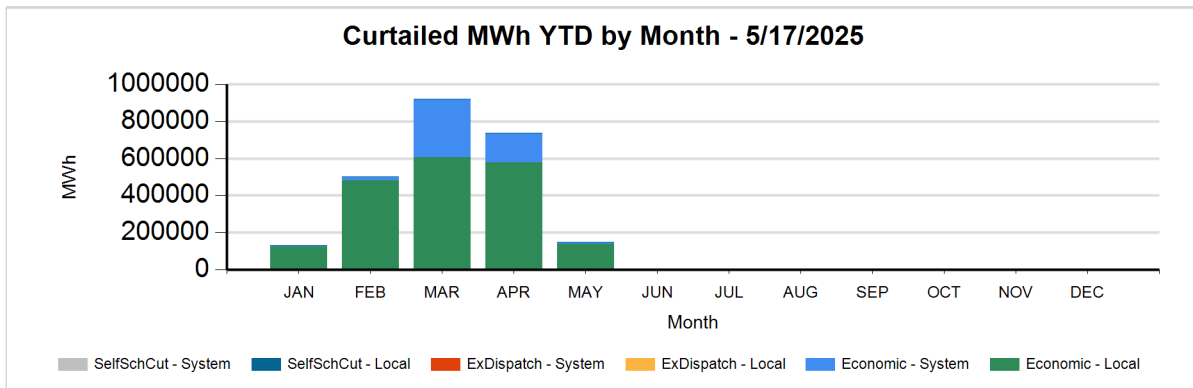
The following charts show the daily and 7-day wind and solar curtailment by category, if any.



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 - 5/17/2025
LocalEconomic	1,927,283
LocalSelfSchCut	1,022
SystemEconomic	508,527
TOTAL	2,436,831

Data used to produce hourly chart

DATE	HOUR	CURT TYPE	REASON	FUEL TYPE	CURTAILED MWH	CURTAILED MW
05/17	1	Economic	Local	WIND	96	151
05/17	2	Economic	Local	WIND	171	200
05/17	3	Economic	Local	WIND	185	220
05/17	4	Economic	Local	WIND	156	207
05/17	5	Economic	Local	WIND	33	189
05/17	6	Economic	Local	WIND	47	140
05/17	7	Economic	Local	WIND	178	216
05/17	8	Economic	Local	SOLR	22	42
05/17	8	Economic	Local	WIND	311	417
05/17	9	Economic	Local	SOLR	80	105
05/17	9	Economic	Local	WIND	228	389
05/17	10	Economic	Local	SOLR	450	992
05/17	10	Economic	Local	WIND	319	428
05/17	11	Economic	Local	SOLR	1020	1504
05/17	11	Economic	Local	WIND	383	371
05/17	11	SelfSchCut	Local	SOLR	0	
05/17	12	Economic	Local	SOLR	1065	1276
05/17	12	Economic	Local	WIND	320	322
05/17	12	SelfSchCut	Local	SOLR	11	10
05/17	13	Economic	Local	SOLR	1370	1717
05/17	13	Economic	Local	WIND	362	402
05/17	13	SelfSchCut	Local	SOLR	10	9
05/17	14	Economic	Local	SOLR	827	1073
05/17	14	Economic	Local	WIND	329	380
05/17	14	Economic	System	SOLR	14	
05/17	14	Economic	System	WIND	15	
05/17	14	SelfSchCut	Local	SOLR	6	2
05/17	15	Economic	Local	SOLR	596	675
05/17	15	Economic	Local	WIND	397	494
05/17	15	Economic	System	SOLR	28	
05/17	15	Economic	System	WIND	10	

05/17	15	SelfSchCut	Local	SOLR	4	2
05/17	16	Economic	Local	SOLR	421	656
05/17	16	Economic	Local	WIND	328	489
05/17	16	SelfSchCut	Local	SOLR	2	5
05/17	17	Economic	Local	SOLR	480	540
05/17	17	Economic	Local	WIND	406	449
05/17	17	SelfSchCut	Local	SOLR	1	
05/17	18	Economic	Local	SOLR	185	339
05/17	18	Economic	Local	WIND	253	356
05/17	18	Economic	System	SOLR	27	84
05/17	19	Economic	Local	SOLR	19	52
05/17	19	Economic	Local	WIND	162	224
05/17	19	Economic	System	SOLR	2	
05/17	20	Economic	Local	SOLR	3	35
05/17	20	Economic	Local	WIND	22	63
05/17	20	Economic	System	SOLR	10	
05/17	22	Economic	Local	WIND	14	68
05/17	23	Economic	Local	WIND	50	75
05/17	24	Economic	Local	WIND	82	127

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.