

Wind and Solar Curtailment May 02, 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.

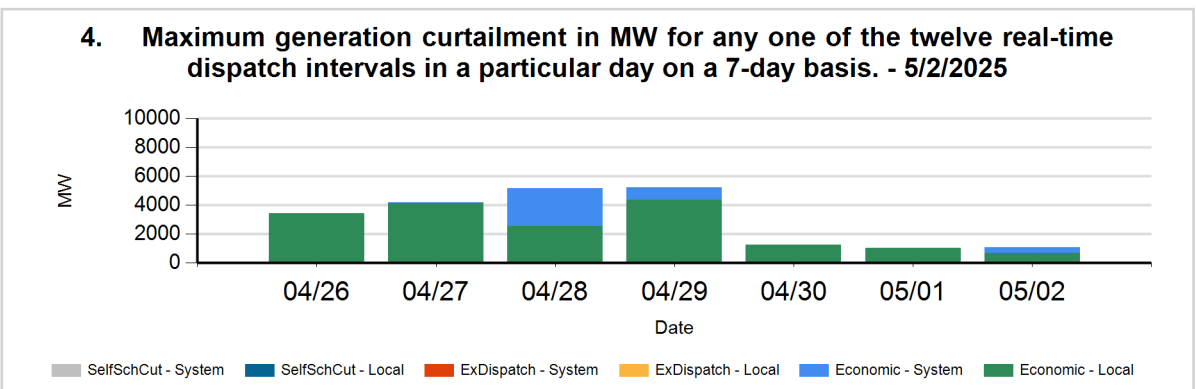
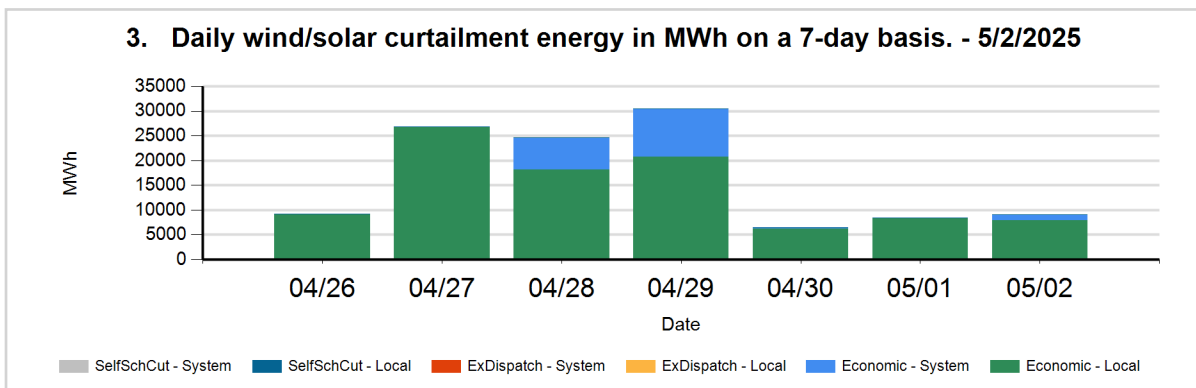
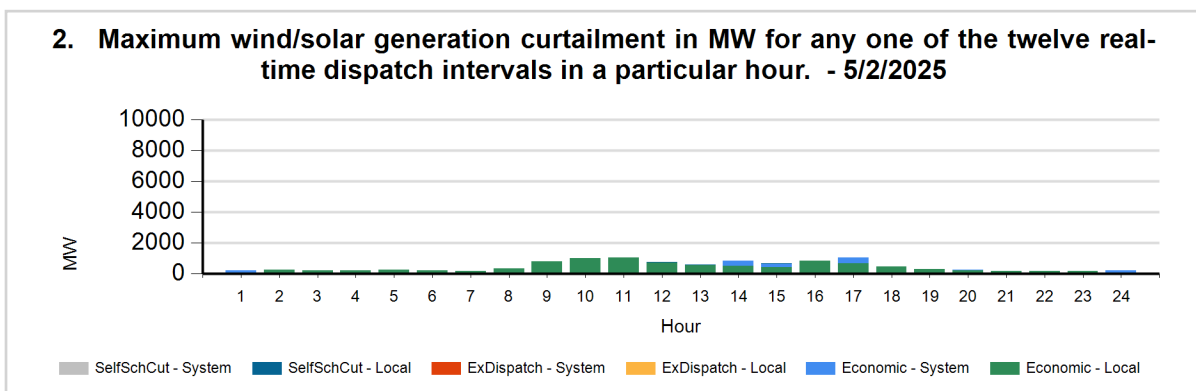
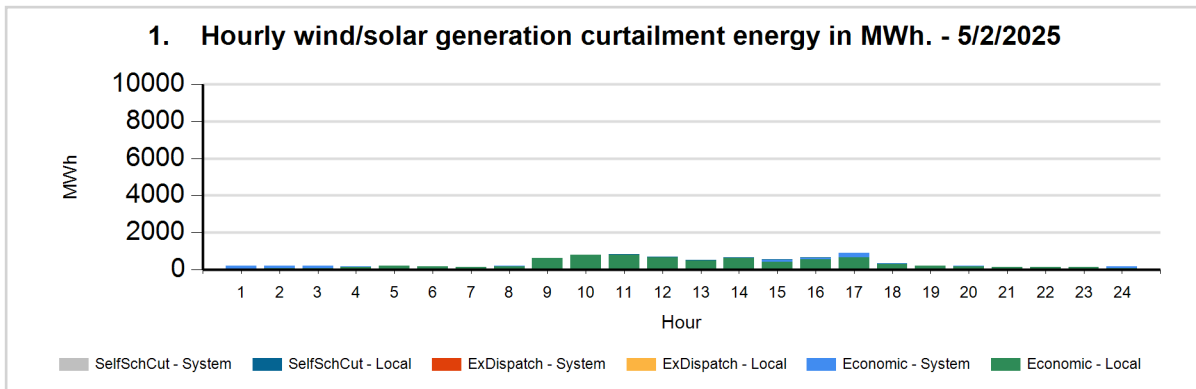
¹Only wind and solar resources can be reported in this manner because these resources have a forecast. Curtailment is defined as the difference between actual production and the forecast when actual production is less than the forecast.

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

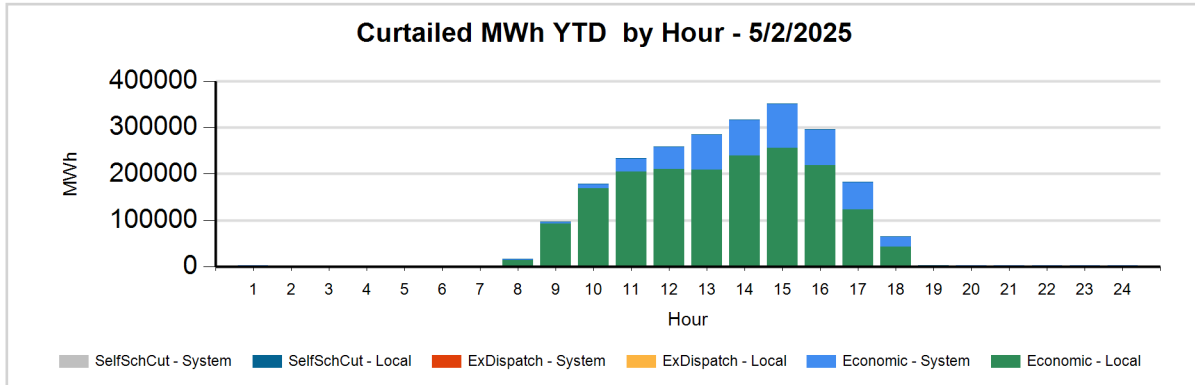
³Congestion occurs when available, least-cost energy cannot be delivered to some loads because transmission facilities do not have sufficient capacity to deliver the energy.

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

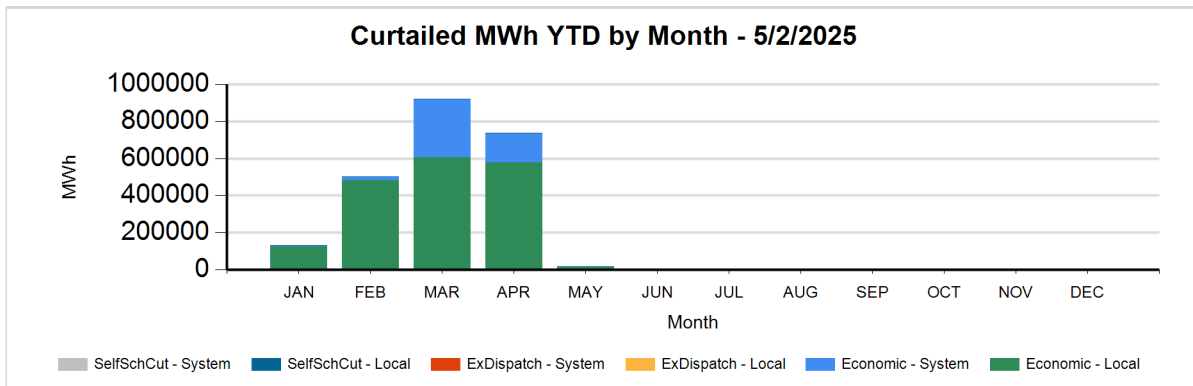
The following charts show the daily and 7-day wind and solar curtailment by category, if any.



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 - 5/2/2025
LocalEconomic	1,804,974
LocalSelfSchCut	655
SystemEconomic	501,754
TOTAL	2,307,383

Data used to produce hourly chart

DATE	HOUR	CURT TYPE	REASON	FUEL TYPE	CURTAILED MWH	CURTAILED MW
05/02	1	Economic	Local	WIND	32	
05/02	1	Economic	System	WIND	174	212
05/02	2	Economic	Local	WIND	54	226
05/02	2	Economic	System	WIND	161	
05/02	3	Economic	Local	WIND	51	218
05/02	3	Economic	System	WIND	149	
05/02	4	Economic	Local	WIND	173	194
05/02	4	Economic	System	WIND	13	
05/02	5	Economic	Local	WIND	199	250
05/02	6	Economic	Local	WIND	178	223
05/02	7	Economic	Local	WIND	119	158
05/02	8	Economic	Local	SOLR	38	151
05/02	8	Economic	Local	WIND	174	166
05/02	8	Economic	System	SOLR	4	
05/02	9	Economic	Local	SOLR	455	598
05/02	9	Economic	Local	WIND	165	178
05/02	10	Economic	Local	SOLR	597	795
05/02	10	Economic	Local	WIND	182	197
05/02	11	Economic	Local	SOLR	633	825
05/02	11	Economic	Local	WIND	199	207
05/02	11	SelfSchCut	Local	SOLR	3	
05/02	12	Economic	Local	SOLR	478	529
05/02	12	Economic	Local	WIND	202	209
05/02	12	SelfSchCut	Local	SOLR	6	13
05/02	13	Economic	Local	SOLR	335	413
05/02	13	Economic	Local	WIND	172	173
05/02	13	Economic	System	SOLR	2	3
05/02	13	SelfSchCut	Local	SOLR	4	11
05/02	14	Economic	Local	SOLR	481	508
05/02	14	Economic	Local	WIND	133	
05/02	14	Economic	System	SOLR	24	162

05/02	14	Economic	System	WIND	26	144
05/02	14	SelfSchCut	Local	SOLR	4	
05/02	15	Economic	Local	SOLR	332	419
05/02	15	Economic	Local	WIND	88	
05/02	15	Economic	System	WIND	124	220
05/02	15	SelfSchCut	Local	SOLR	5	13
05/02	16	Economic	Local	SOLR	496	657
05/02	16	Economic	Local	WIND	56	158
05/02	16	Economic	System	SOLR	5	
05/02	16	Economic	System	WIND	82	
05/02	16	SelfSchCut	Local	SOLR	1	
05/02	17	Economic	Local	SOLR	621	653
05/02	17	Economic	Local	WIND	50	
05/02	17	Economic	System	SOLR	47	161
05/02	17	Economic	System	WIND	161	226
05/02	17	SelfSchCut	Local	SOLR	0	
05/02	18	Economic	Local	SOLR	136	272
05/02	18	Economic	Local	WIND	206	195
05/02	18	Economic	System	SOLR	7	
05/02	19	Economic	Local	SOLR	26	65
05/02	19	Economic	Local	WIND	192	207
05/02	20	Economic	Local	SOLR	1	
05/02	20	Economic	Local	WIND	195	223
05/02	20	Economic	System	SOLR	1	11
05/02	21	Economic	Local	WIND	146	178
05/02	22	Economic	Local	WIND	125	168
05/02	23	Economic	Local	WIND	124	168
05/02	24	Economic	Local	WIND	58	
05/02	24	Economic	System	WIND	115	206

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.

