

Wind and Solar Curtailment April 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.

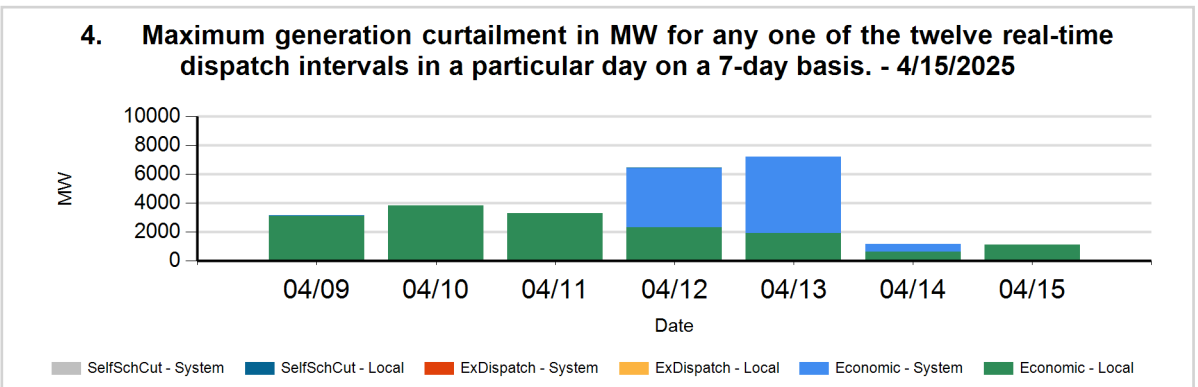
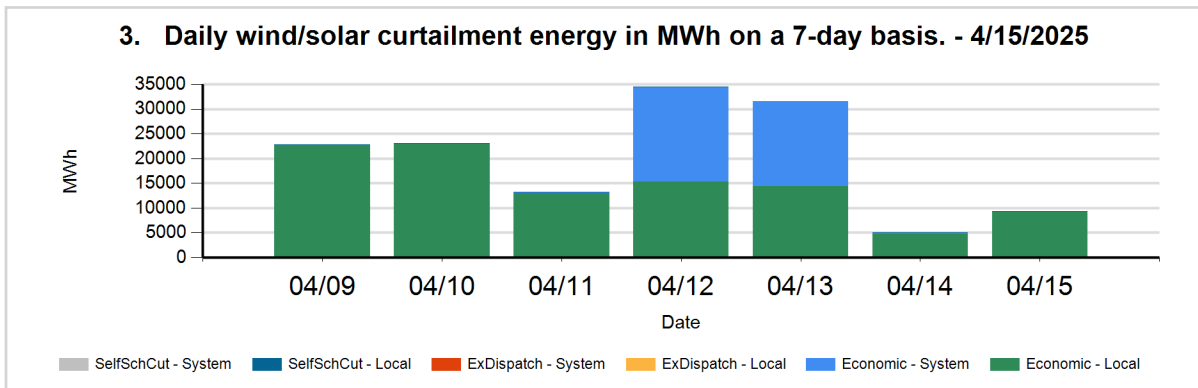
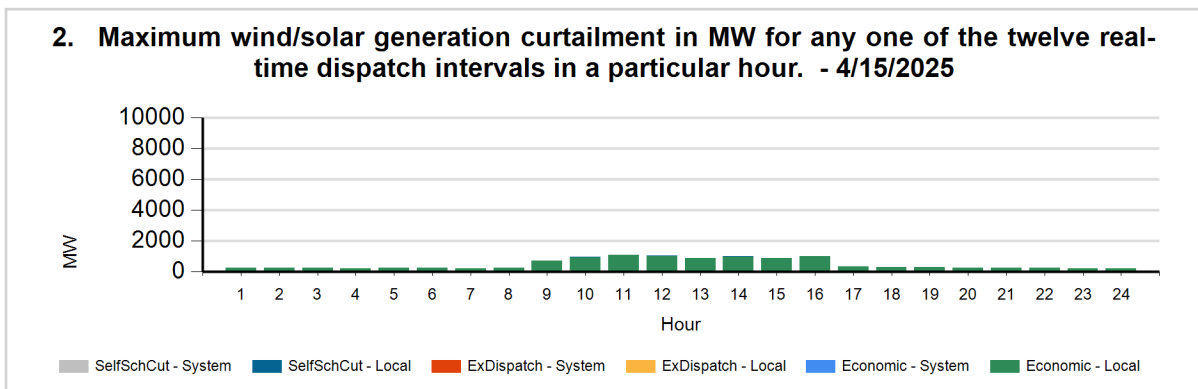
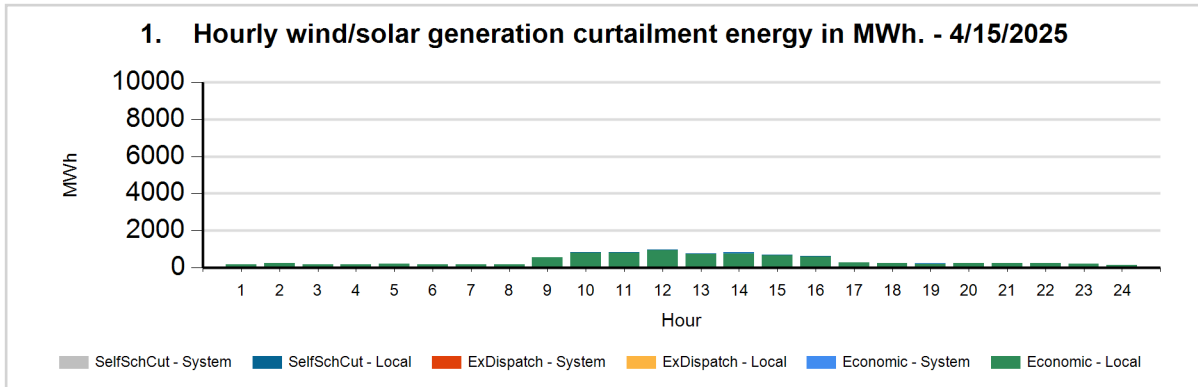
¹Only wind and solar resources can be reported in this manner because these resources have a forecast. Curtailment is defined as the difference between actual production and the forecast when actual production is less than the forecast.

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

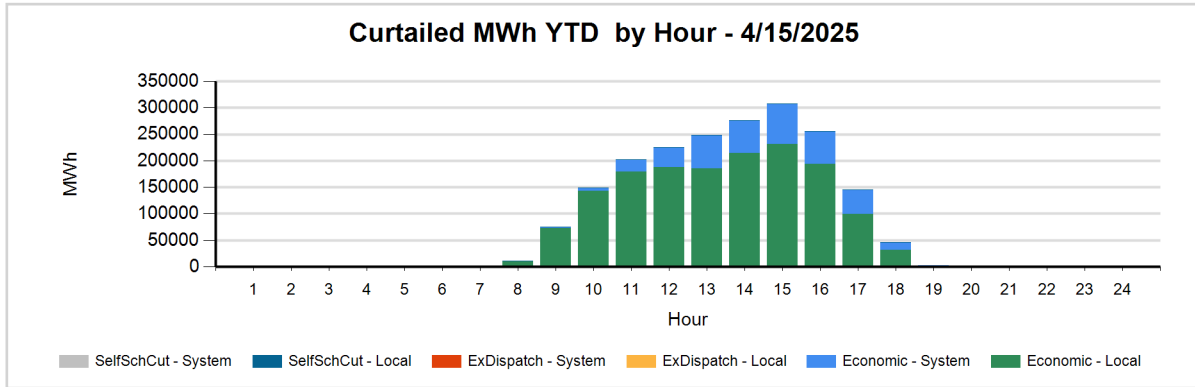
³Congestion occurs when available, least-cost energy cannot be delivered to some loads because transmission facilities do not have sufficient capacity to deliver the energy.

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

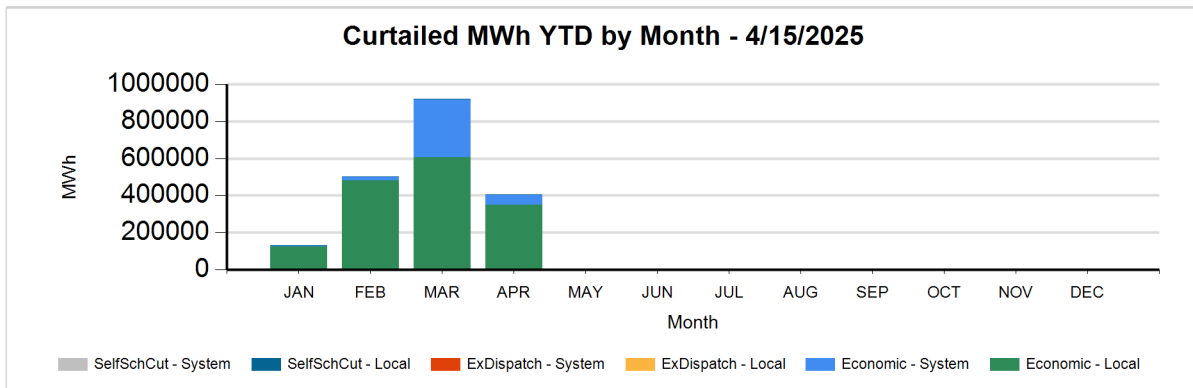
The following charts show the daily and 7-day wind and solar curtailment by category, if any.



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 - 4/15/2025
LocalEconomic	1,561,581
LocalSelfSchCut	335
SystemEconomic	392,929
TOTAL	1,954,844

Data used to produce hourly chart

DATE	HOUR	CURT TYPE	REASON	FUEL TYPE	CURTAILED MWH	CURTAILED MW
04/15	1	Economic	Local	WIND	179	235
04/15	2	Economic	Local	WIND	232	244
04/15	3	Economic	Local	WIND	179	233
04/15	4	Economic	Local	WIND	159	195
04/15	5	Economic	Local	WIND	194	225
04/15	6	Economic	Local	WIND	181	229
04/15	7	Economic	Local	WIND	184	221
04/15	8	Economic	Local	SOLR	22	75
04/15	8	Economic	Local	WIND	156	158
04/15	9	Economic	Local	SOLR	388	537
04/15	9	Economic	Local	WIND	173	179
04/15	10	Economic	Local	SOLR	630	775
04/15	10	Economic	Local	WIND	181	188
04/15	10	SelfSchCut	Local	SOLR	5	4
04/15	11	Economic	Local	SOLR	621	866
04/15	11	Economic	Local	WIND	195	219
04/15	11	SelfSchCut	Local	SOLR	1	
04/15	12	Economic	Local	SOLR	746	814
04/15	12	Economic	Local	WIND	216	213
04/15	12	SelfSchCut	Local	SOLR	4	8
04/15	13	Economic	Local	SOLR	539	658
04/15	13	Economic	Local	WIND	211	224
04/15	13	Economic	System	SOLR	0	
04/15	13	SelfSchCut	Local	SOLR	2	
04/15	14	Economic	Local	SOLR	539	766
04/15	14	Economic	Local	WIND	209	213
04/15	14	Economic	System	SOLR	84	
04/15	14	SelfSchCut	Local	SOLR	3	8
04/15	15	Economic	Local	SOLR	475	635
04/15	15	Economic	Local	WIND	217	224
04/15	15	SelfSchCut	Local	SOLR	2	

04/15	16	Economic	Local	SOLR	407	788
04/15	16	Economic	Local	WIND	197	199
04/15	16	SelfSchCut	Local	SOLR	1	
04/15	17	Economic	Local	SOLR	42	53
04/15	17	Economic	Local	WIND	233	277
04/15	18	Economic	Local	SOLR	5	47
04/15	18	Economic	Local	WIND	245	249
04/15	18	Economic	System	SOLR	0	
04/15	19	Economic	Local	SOLR	7	36
04/15	19	Economic	Local	WIND	217	237
04/15	19	Economic	System	SOLR	4	
04/15	20	Economic	Local	WIND	230	262
04/15	21	Economic	Local	WIND	232	244
04/15	22	Economic	Local	WIND	223	238
04/15	23	Economic	Local	WIND	189	216
04/15	24	Economic	Local	WIND	137	200

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.