

Wind and Solar Curtailment April 16, 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.

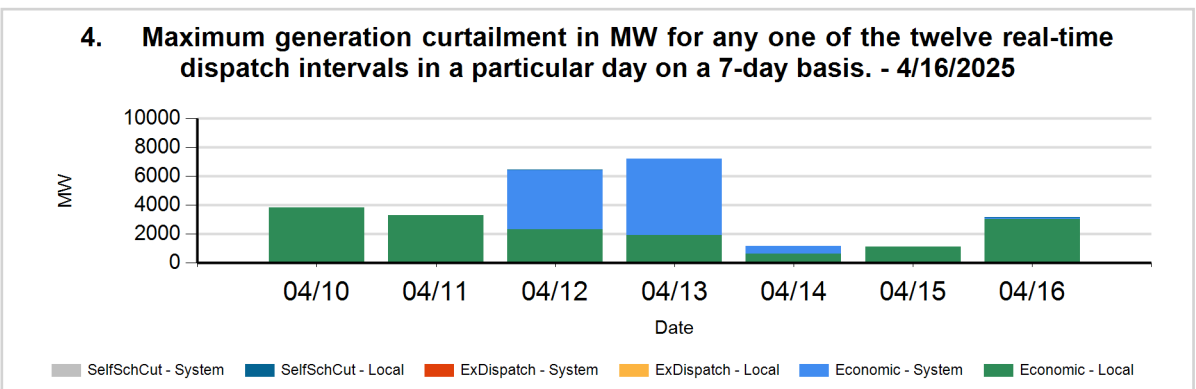
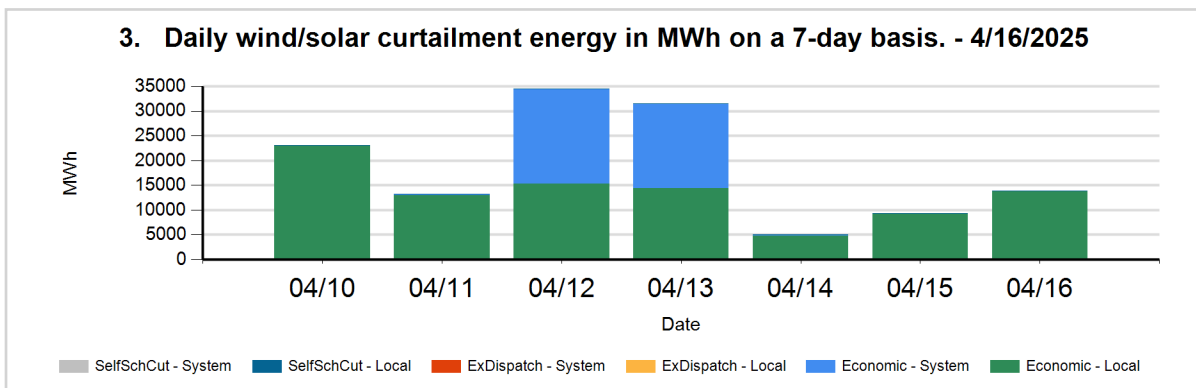
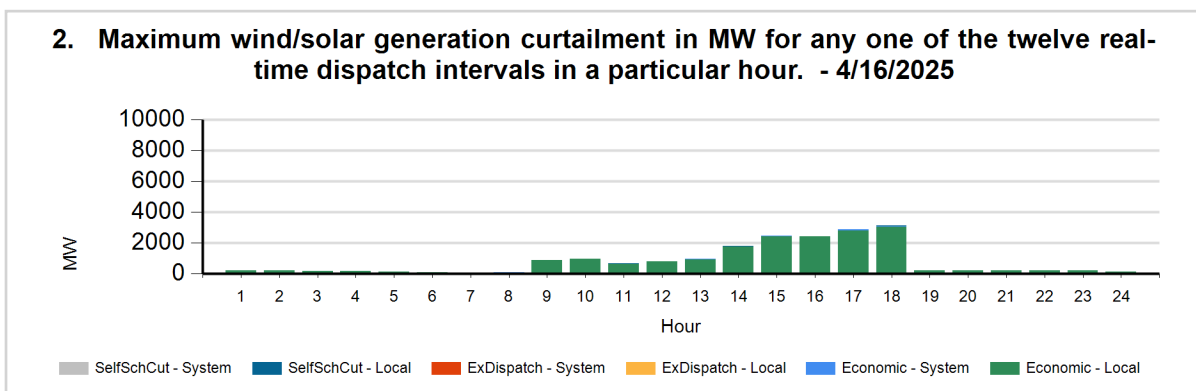
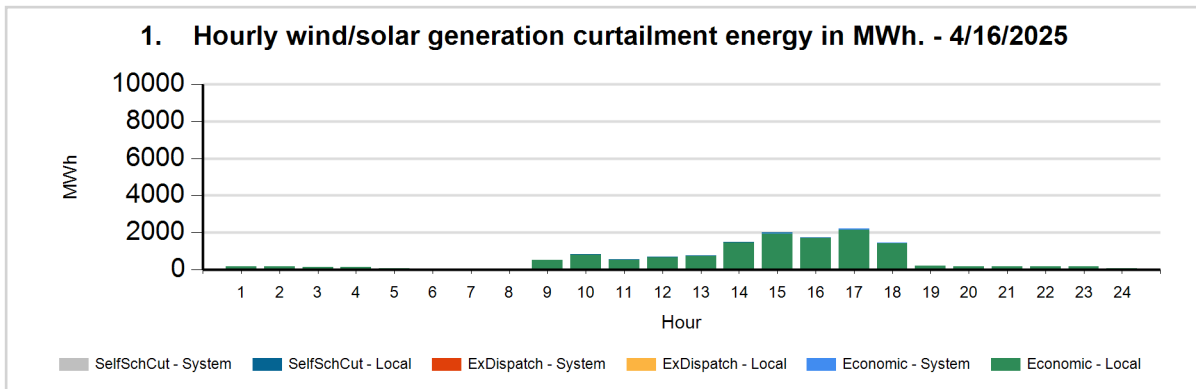
¹Only wind and solar resources can be reported in this manner because these resources have a forecast. Curtailment is defined as the difference between actual production and the forecast when actual production is less than the forecast.

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

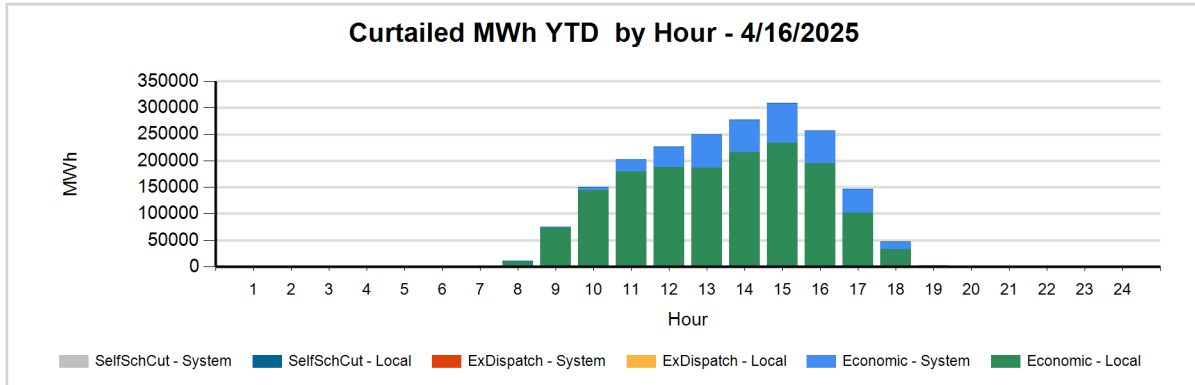
³Congestion occurs when available, least-cost energy cannot be delivered to some loads because transmission facilities do not have sufficient capacity to deliver the energy.

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

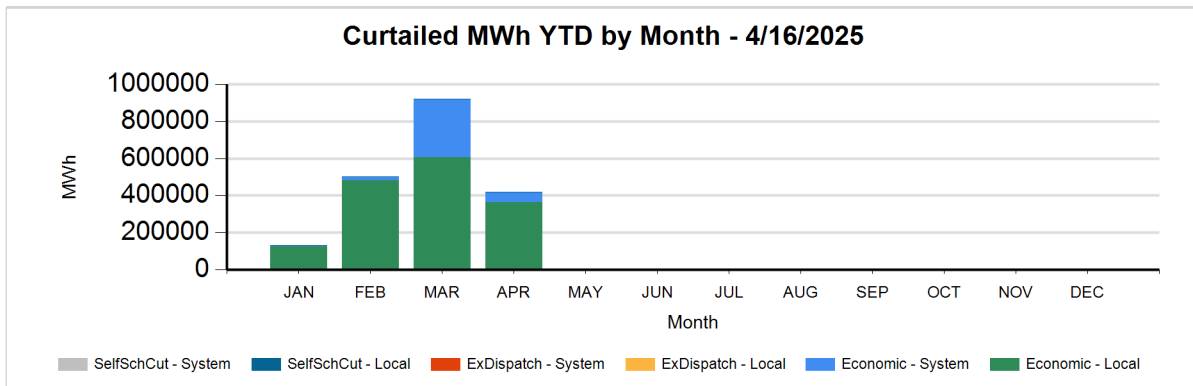
The following charts show the daily and 7-day wind and solar curtailment by category, if any.



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 - 4/16/2025
LocalEconomic	1,575,280
LocalSelfSchCut	355
SystemEconomic	393,089
TOTAL	1,968,723

Data used to produce hourly chart

DATE	HOUR	CURT TYPE	REASON	FUEL TYPE	CURTAILED MWH	CURTAILED MW
04/16	1	Economic	Local	WIND	178	194
04/16	2	Economic	Local	WIND	161	187
04/16	3	Economic	Local	WIND	138	152
04/16	4	Economic	Local	WIND	147	167
04/16	5	Economic	Local	WIND	76	118
04/16	6	Economic	Local	WIND	29	67
04/16	8	Economic	Local	SOLR	2	6
04/16	8	Economic	System	WIND	6	55
04/16	9	Economic	Local	SOLR	525	868
04/16	10	Economic	Local	SOLR	832	972
04/16	10	Economic	Local	WIND	3	
04/16	10	SelfSchCut	Local	SOLR	1	
04/16	11	Economic	Local	SOLR	518	637
04/16	11	Economic	Local	WIND	19	13
04/16	11	SelfSchCut	Local	SOLR	3	3
04/16	12	Economic	Local	SOLR	599	688
04/16	12	Economic	Local	WIND	85	104
04/16	12	SelfSchCut	Local	SOLR	2	
04/16	13	Economic	Local	SOLR	597	735
04/16	13	Economic	Local	WIND	155	191
04/16	13	Economic	System	SOLR	6	18
04/16	13	SelfSchCut	Local	SOLR	2	
04/16	14	Economic	Local	SOLR	1270	1556
04/16	14	Economic	Local	WIND	186	213
04/16	14	Economic	System	SOLR	12	
04/16	14	SelfSchCut	Local	SOLR	6	1
04/16	15	Economic	Local	SOLR	1726	2221
04/16	15	Economic	Local	WIND	221	251
04/16	15	Economic	System	SOLR	40	3
04/16	15	SelfSchCut	Local	SOLR	2	
04/16	16	Economic	Local	SOLR	1473	2162

04/16	16	Economic	Local	WIND	265	248
04/16	16	Economic	System	SOLR	0	
04/16	16	SelfSchCut	Local	SOLR	5	
04/16	17	Economic	Local	SOLR	1683	2021
04/16	17	Economic	Local	WIND	452	760
04/16	17	Economic	System	SOLR	63	78
04/16	18	Economic	Local	SOLR	952	2179
04/16	18	Economic	Local	WIND	461	844
04/16	18	Economic	System	SOLR	32	108
04/16	18	SelfSchCut	Local	SOLR	0	2
04/16	19	Economic	Local	SOLR	3	19
04/16	19	Economic	Local	WIND	190	195
04/16	20	Economic	Local	WIND	185	199
04/16	21	Economic	Local	WIND	176	186
04/16	22	Economic	Local	WIND	174	187
04/16	23	Economic	Local	WIND	160	185
04/16	24	Economic	Local	WIND	62	132

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.