

Wind and Solar Curtailment April 08, 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.

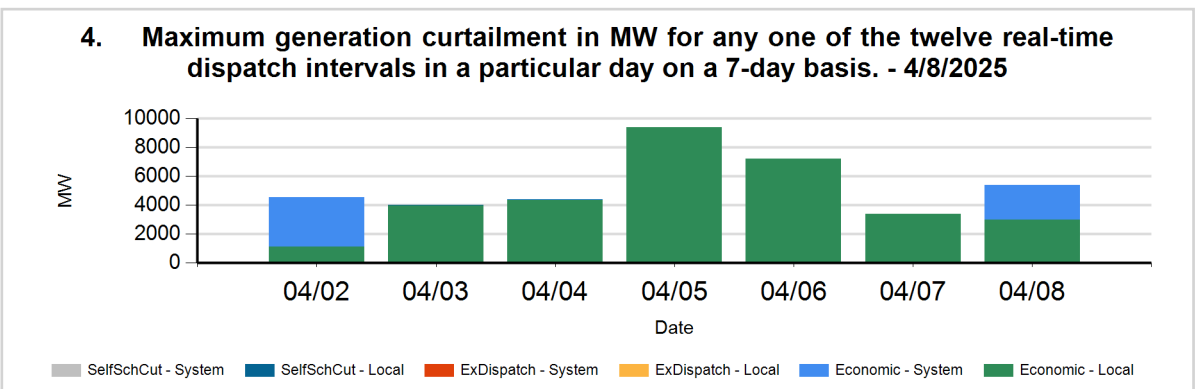
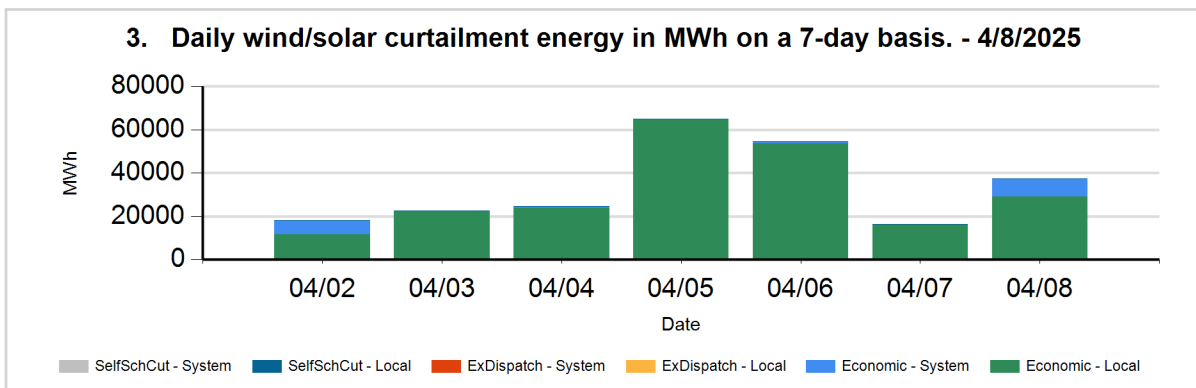
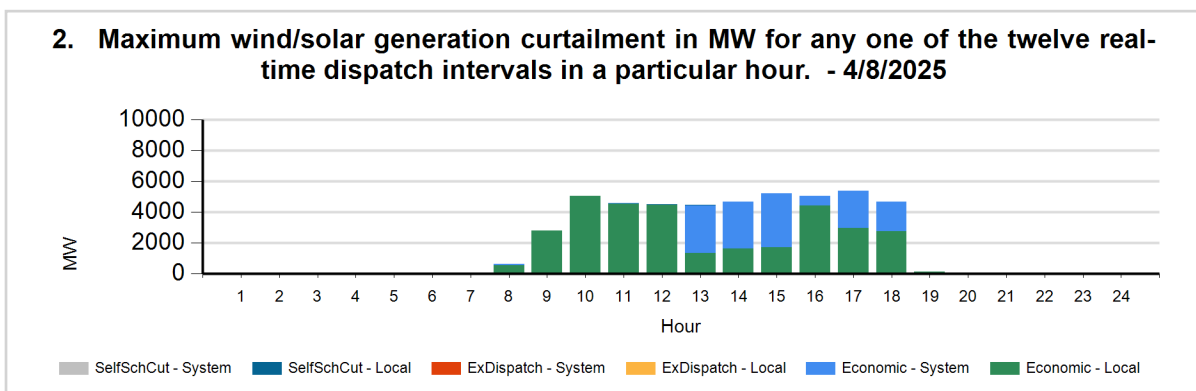
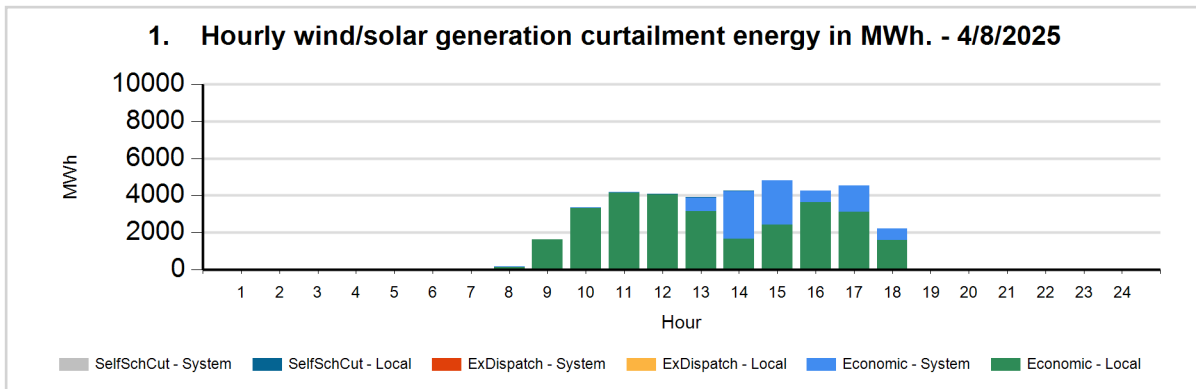
¹Only wind and solar resources can be reported in this manner because these resources have a forecast. Curtailment is defined as the difference between actual production and the forecast when actual production is less than the forecast.

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

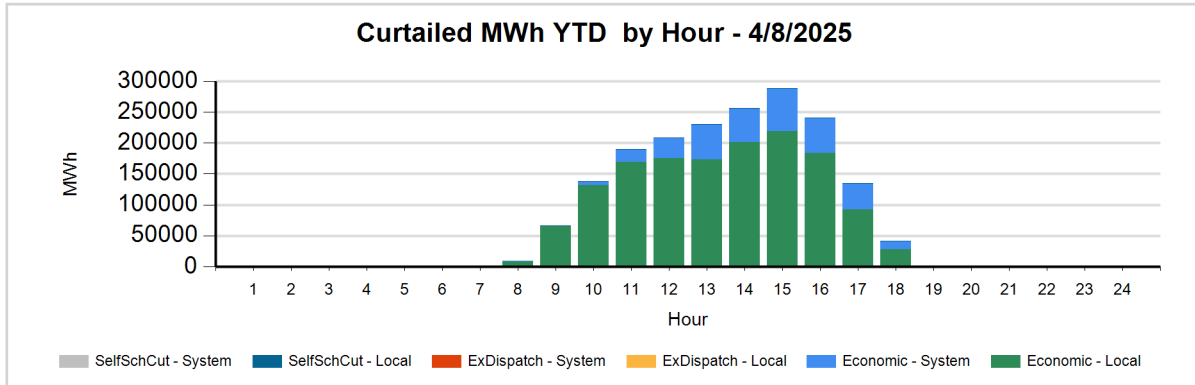
³Congestion occurs when available, least-cost energy cannot be delivered to some loads because transmission facilities do not have sufficient capacity to deliver the energy.

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

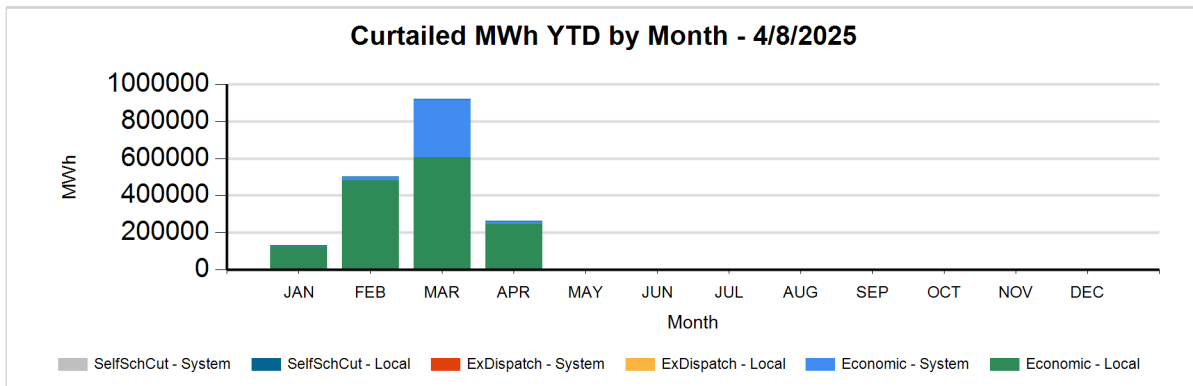
The following charts show the daily and 7-day wind and solar curtailment by category, if any.



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 - 4/8/2025
LocalEconomic	1,458,994
LocalSelfSchCut	250
SystemEconomic	356,225
TOTAL	1,815,469

Data used to produce hourly chart

DATE	HOUR	CURT TYPE	REASON	FUEL TYPE	CURTAILED MWH	CURTAILED MW
04/08	8	Economic	Local	SOLR	114	463
04/08	8	Economic	Local	WIND	54	67
04/08	8	Economic	System	SOLR	6	66
04/08	8	Economic	System	WIND	2	20
04/08	9	Economic	Local	SOLR	1549	2729
04/08	9	Economic	Local	WIND	62	80
04/08	10	Economic	Local	SOLR	3194	4849
04/08	10	Economic	Local	WIND	166	194
04/08	10	Economic	System	WIND	2	
04/08	11	Economic	Local	SOLR	3970	4259
04/08	11	Economic	Local	WIND	220	310
04/08	11	Economic	System	WIND	2	18
04/08	12	Economic	Local	SOLR	3910	4239
04/08	12	Economic	Local	WIND	167	251
04/08	12	Economic	System	WIND	15	24
04/08	12	SelfSchCut	Local	SOLR	2	3
04/08	13	Economic	Local	SOLR	3074	1320
04/08	13	Economic	Local	WIND	86	
04/08	13	Economic	System	SOLR	656	2958
04/08	13	Economic	System	WIND	85	159
04/08	13	SelfSchCut	Local	SOLR	3	5
04/08	14	Economic	Local	SOLR	1648	1614
04/08	14	Economic	Local	WIND	5	
04/08	14	Economic	System	SOLR	2524	2962
04/08	14	Economic	System	WIND	79	80
04/08	14	SelfSchCut	Local	SOLR	1	
04/08	15	Economic	Local	SOLR	2400	1705
04/08	15	Economic	Local	WIND	20	
04/08	15	Economic	System	SOLR	2312	3405
04/08	15	Economic	System	WIND	74	93
04/08	15	SelfSchCut	Local	SOLR	0	

04/08	16	Economic	Local	SOLR	3498	4311
04/08	16	Economic	Local	WIND	131	96
04/08	16	Economic	System	SOLR	571	600
04/08	16	Economic	System	WIND	47	24
04/08	17	Economic	Local	SOLR	2950	2808
04/08	17	Economic	Local	WIND	170	164
04/08	17	Economic	System	SOLR	1349	2389
04/08	17	Economic	System	WIND	49	19
04/08	18	Economic	Local	SOLR	1511	2616
04/08	18	Economic	Local	WIND	70	142
04/08	18	Economic	System	SOLR	636	1892
04/08	18	Economic	System	WIND	9	27
04/08	19	Economic	Local	SOLR	27	110
04/08	19	Economic	System	SOLR	1	
04/08	20	Economic	Local	WIND	3	4

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.