

Wind and Solar Curtailment April 20, 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.

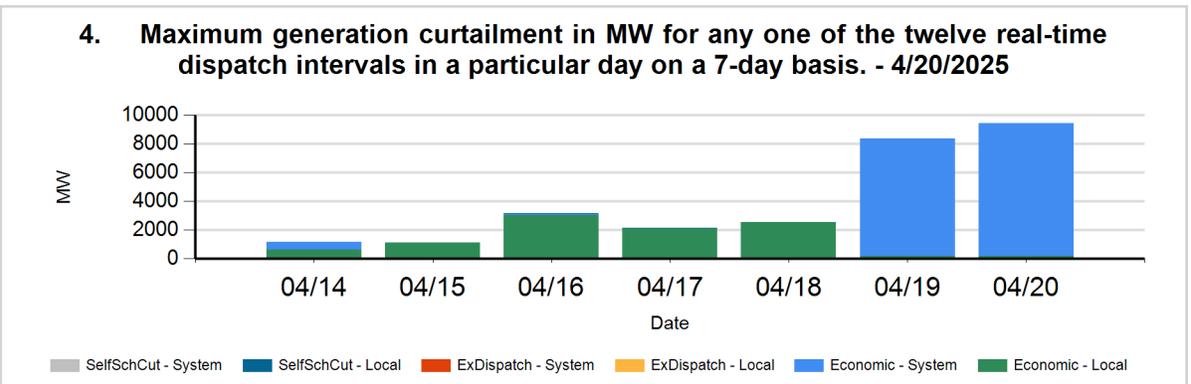
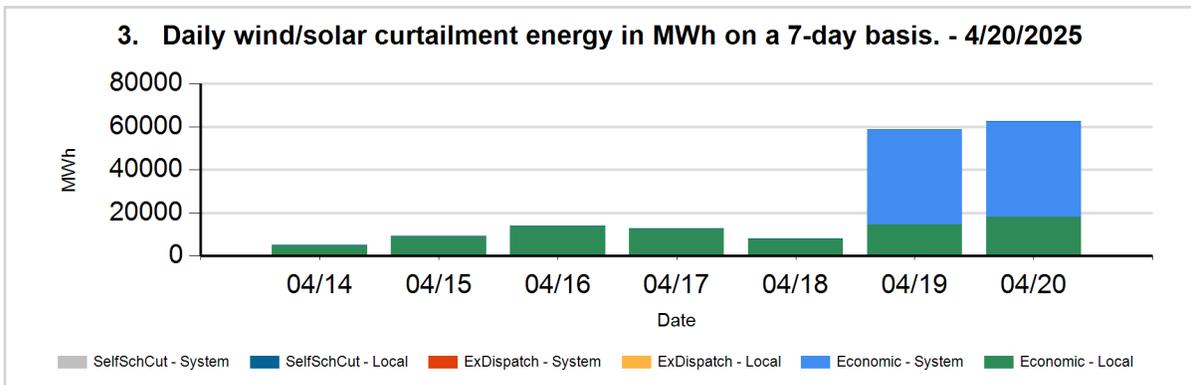
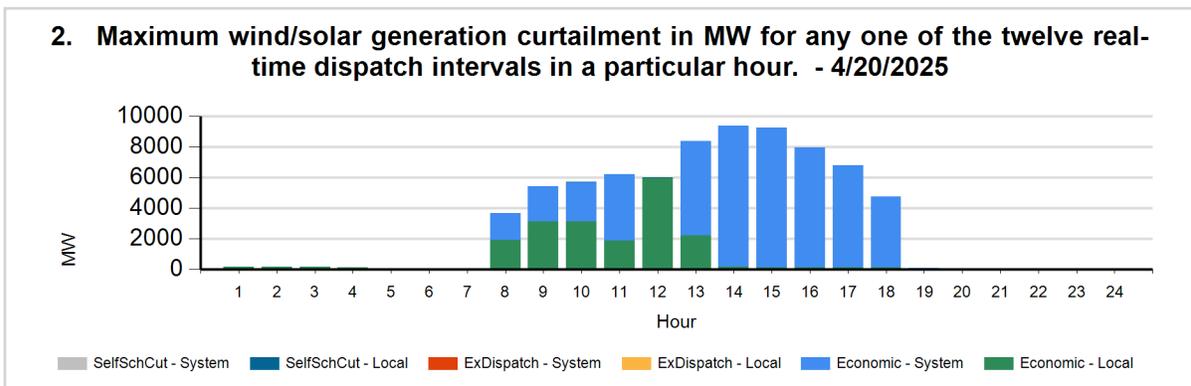
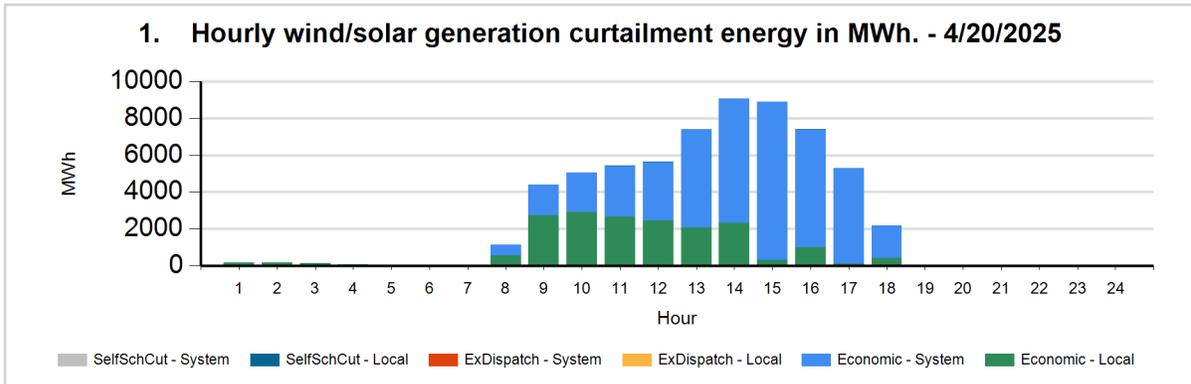
¹Only wind and solar resources can be reported in this manner because these resources have a forecast. Curtailment is defined as the difference between actual production and the forecast when actual production is less than the forecast.

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

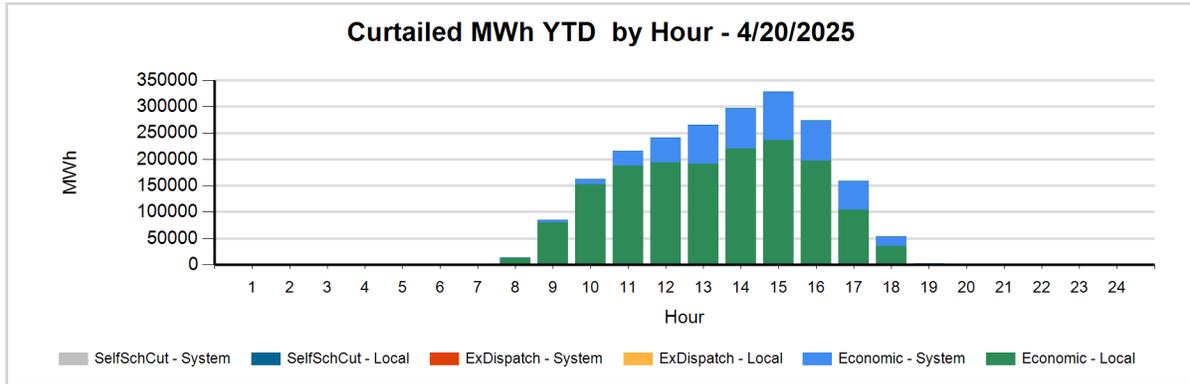
³Congestion occurs when available, least-cost energy cannot be delivered to some loads because transmission facilities do not have sufficient capacity to deliver the energy.

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

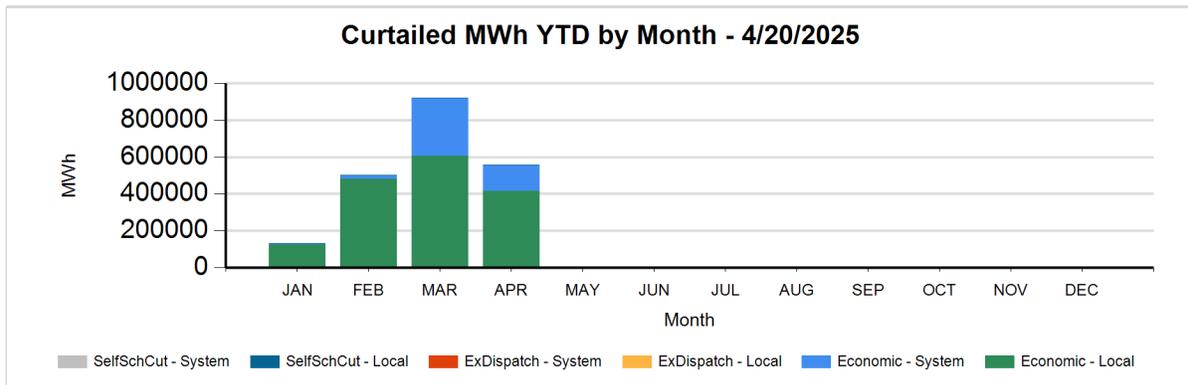
The following charts show the daily and 7-day wind and solar curtailment by category, if any.



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 - 4/20/2025
LocalEconomic	1,628,343
LocalSelfSchCut	380
SystemEconomic	481,716
TOTAL	2,110,440

Data used to produce hourly chart

DATE	HOUR	CURT TYPE	REASON	FUEL TYPE	CURTAILED MWH	CURTAILED MW
04/20	1	Economic	Local	WIND	165	174
04/20	2	Economic	Local	WIND	153	177
04/20	3	Economic	Local	WIND	149	168
04/20	4	Economic	Local	WIND	77	129
04/20	5	Economic	Local	WIND	21	54
04/20	8	Economic	Local	SOLR	541	1924
04/20	8	Economic	Local	WIND	0	
04/20	8	Economic	System	SOLR	597	1732
04/20	8	Economic	System	WIND	10	30
04/20	9	Economic	Local	SOLR	2716	3106
04/20	9	Economic	Local	WIND	12	4
04/20	9	Economic	System	SOLR	1628	2253
04/20	9	Economic	System	WIND	31	55
04/20	10	Economic	Local	SOLR	2897	3106
04/20	10	Economic	Local	WIND	10	3
04/20	10	Economic	System	SOLR	2107	2572
04/20	10	Economic	System	WIND	35	34
04/20	10	SelfSchCut	Local	SOLR	0	1
04/20	11	Economic	Local	SOLR	2625	1893
04/20	11	Economic	Local	WIND	22	
04/20	11	Economic	System	SOLR	2735	4233
04/20	11	Economic	System	WIND	60	77
04/20	11	SelfSchCut	Local	SOLR	3	
04/20	12	Economic	Local	SOLR	2454	5928
04/20	12	Economic	Local	WIND	13	68
04/20	12	Economic	System	SOLR	3123	
04/20	12	Economic	System	WIND	62	
04/20	12	SelfSchCut	Local	SOLR	2	7
04/20	13	Economic	Local	SOLR	2067	2191
04/20	13	Economic	System	SOLR	5287	6153
04/20	13	Economic	System	WIND	64	54

04/20	14	Economic	Local	SOLR	2322	149
04/20	14	Economic	Local	WIND	8	
04/20	14	Economic	System	SOLR	6653	9165
04/20	14	Economic	System	WIND	75	90
04/20	15	Economic	Local	SOLR	310	136
04/20	15	Economic	System	SOLR	8473	9010
04/20	15	Economic	System	WIND	105	98
04/20	16	Economic	Local	SOLR	1016	128
04/20	16	Economic	System	SOLR	6259	7750
04/20	16	Economic	System	WIND	116	101
04/20	16	SelfSchCut	Local	SOLR	1	
04/20	17	Economic	Local	SOLR	105	114
04/20	17	Economic	System	SOLR	5025	6537
04/20	17	Economic	System	WIND	148	143
04/20	18	Economic	Local	SOLR	393	106
04/20	18	Economic	Local	WIND	19	
04/20	18	Economic	System	SOLR	1682	4484
04/20	18	Economic	System	WIND	84	171
04/20	19	Economic	Local	SOLR	16	45
04/20	19	Economic	System	SOLR	8	43
04/20	20	Economic	Local	WIND	5	38
04/20	20	Economic	System	WIND	2	6

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.