

Wind and Solar Curtailment April 03, 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.

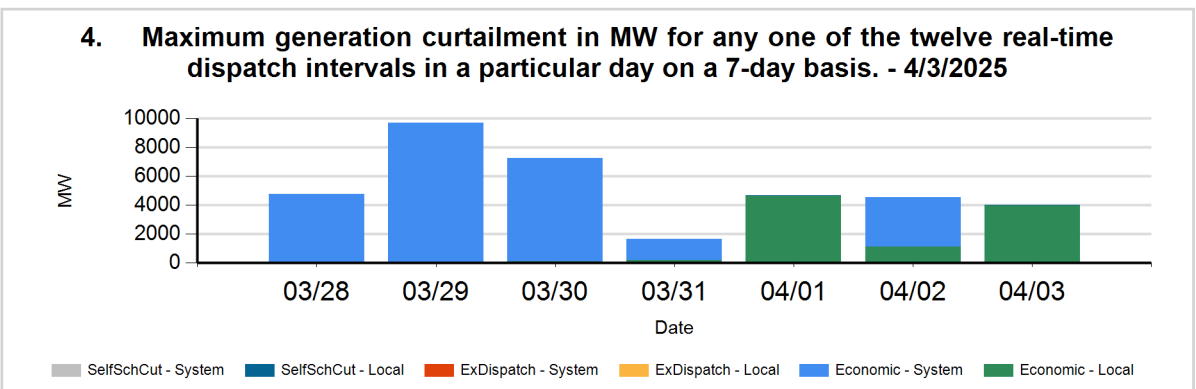
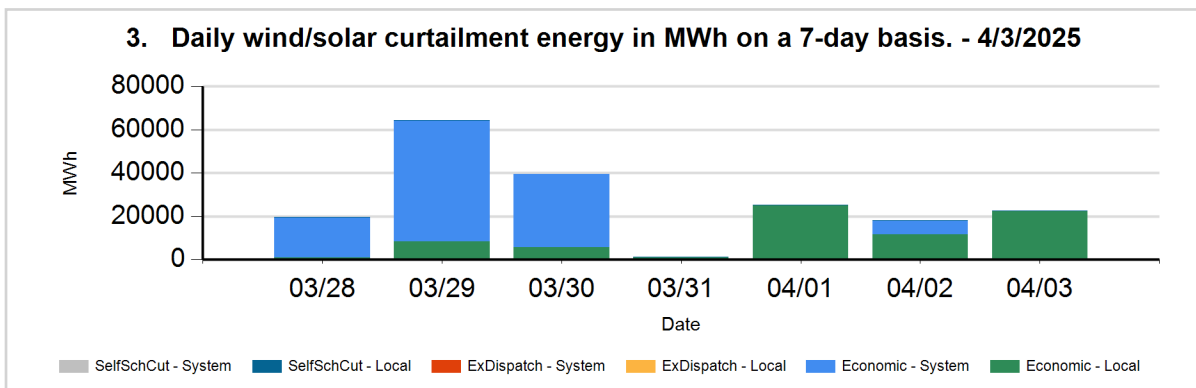
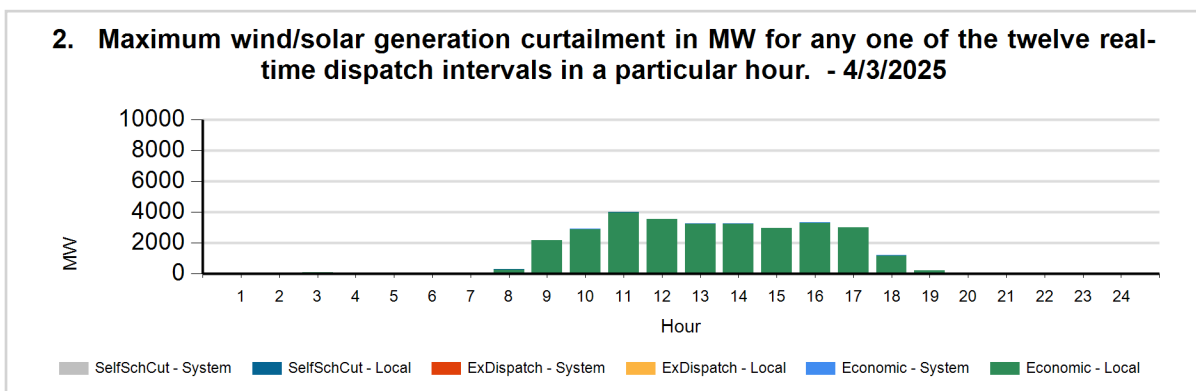
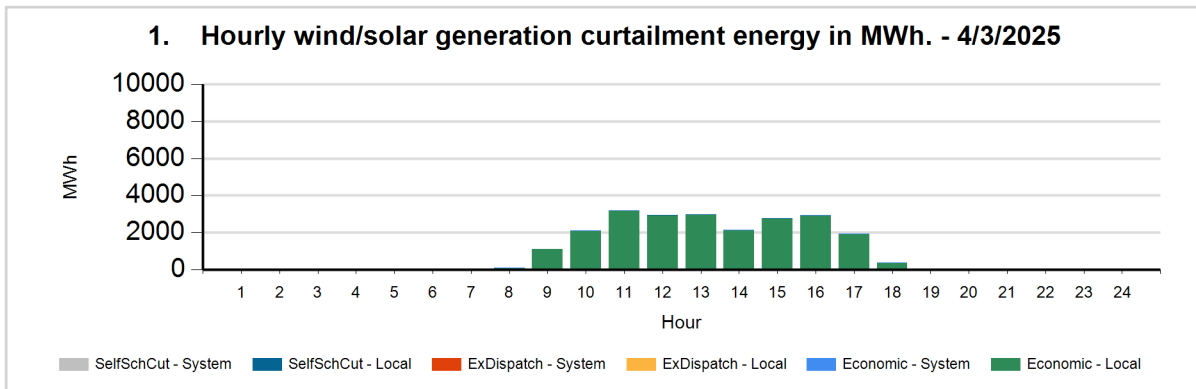
¹Only wind and solar resources can be reported in this manner because these resources have a forecast. Curtailment is defined as the difference between actual production and the forecast when actual production is less than the forecast.

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

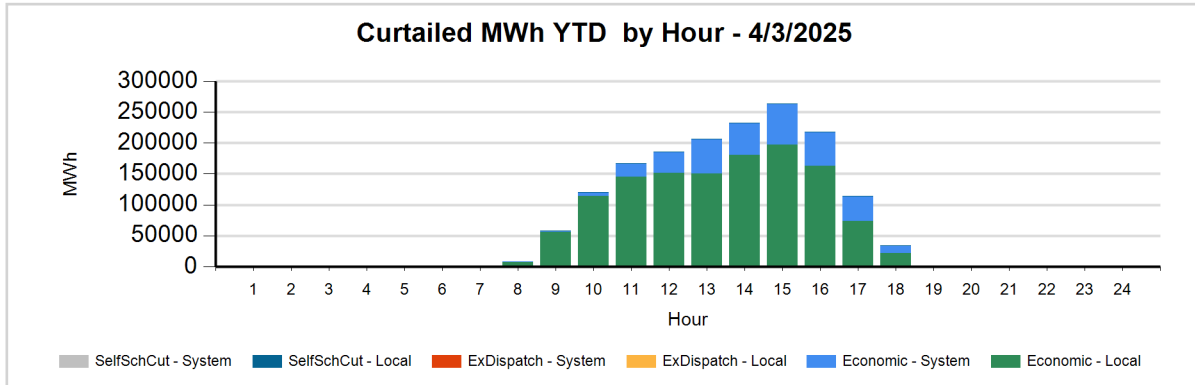
³Congestion occurs when available, least-cost energy cannot be delivered to some loads because transmission facilities do not have sufficient capacity to deliver the energy.

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

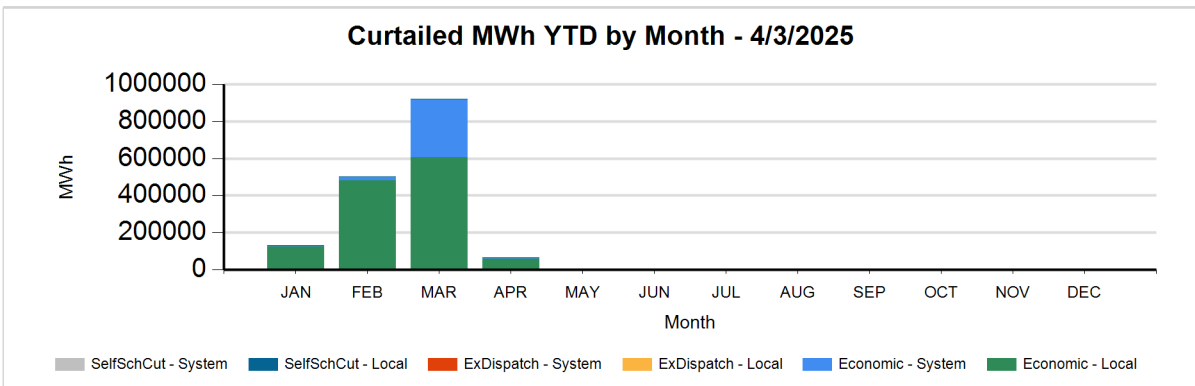
The following charts show the daily and 7-day wind and solar curtailment by category, if any.



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 - 4/3/2025
LocalEconomic	1,271,739
LocalSelfSchCut	223
SystemEconomic	345,795
TOTAL	1,617,757

Data used to produce hourly chart

DATE	HOUR	CURT TYPE	REASON	FUEL TYPE	CURTAILED MWH	CURTAILED MW
04/03	3	Economic	Local	WIND	19	73
04/03	8	Economic	Local	SOLR	57	177
04/03	8	Economic	Local	WIND	16	53
04/03	8	Economic	System	SOLR	11	62
04/03	8	SelfSchCut	Local	SOLR	0	3
04/03	9	Economic	Local	SOLR	1012	2033
04/03	9	Economic	Local	WIND	100	125
04/03	10	Economic	Local	SOLR	2061	2871
04/03	10	Economic	Local	WIND	27	42
04/03	10	Economic	System	SOLR	5	3
04/03	11	Economic	Local	SOLR	3092	3875
04/03	11	Economic	Local	WIND	88	124
04/03	11	SelfSchCut	Local	SOLR	1	5
04/03	12	Economic	Local	SOLR	2900	3417
04/03	12	Economic	Local	WIND	39	123
04/03	12	Economic	System	SOLR	1	
04/03	12	SelfSchCut	Local	SOLR	3	
04/03	13	Economic	Local	SOLR	2943	3236
04/03	13	Economic	Local	WIND	13	16
04/03	13	SelfSchCut	Local	SOLR	3	7
04/03	14	Economic	Local	SOLR	2109	3210
04/03	14	Economic	Local	WIND	7	34
04/03	14	Economic	System	SOLR	4	7
04/03	14	Economic	System	WIND	8	3
04/03	14	SelfSchCut	Local	SOLR	0	3
04/03	15	Economic	Local	SOLR	2728	2944
04/03	15	Economic	Local	WIND	31	35
04/03	15	Economic	System	SOLR	5	
04/03	15	Economic	System	WIND	9	
04/03	15	SelfSchCut	Local	SOLR	1	
04/03	16	Economic	Local	SOLR	2859	3199

04/03	16	Economic	Local	WIND	79	135
04/03	16	Economic	System	SOLR	5	5
04/03	16	Economic	System	WIND	2	4
04/03	17	Economic	Local	SOLR	1864	2861
04/03	17	Economic	Local	WIND	71	152
04/03	17	Economic	System	SOLR	1	
04/03	17	Economic	System	WIND	0	
04/03	18	Economic	Local	SOLR	370	1192
04/03	18	Economic	System	SOLR	0	
04/03	18	Economic	System	WIND	0	2
04/03	19	Economic	Local	SOLR	41	210
04/03	19	Economic	System	SOLR	2	
04/03	22	Economic	Local	WIND	19	34
04/03	23	Economic	Local	WIND	12	13
04/03	24	Economic	Local	WIND	4	12

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.