

Wind and Solar Curtailment April 11, 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.

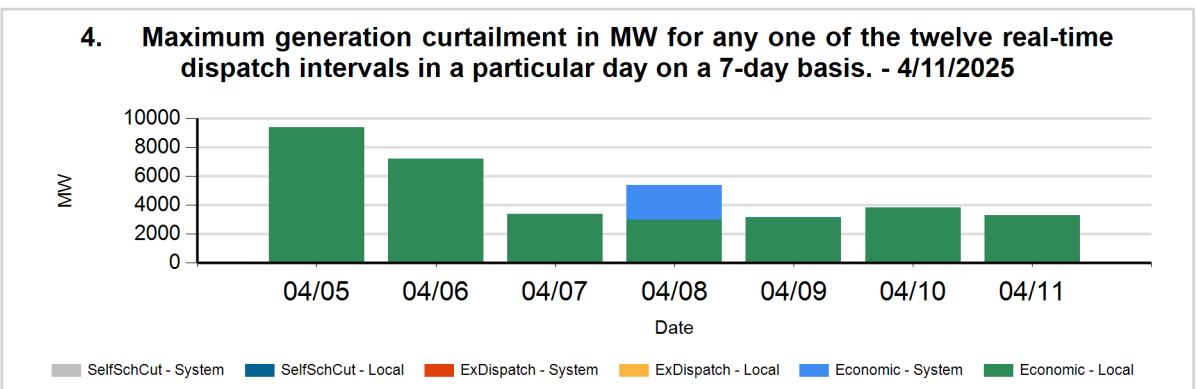
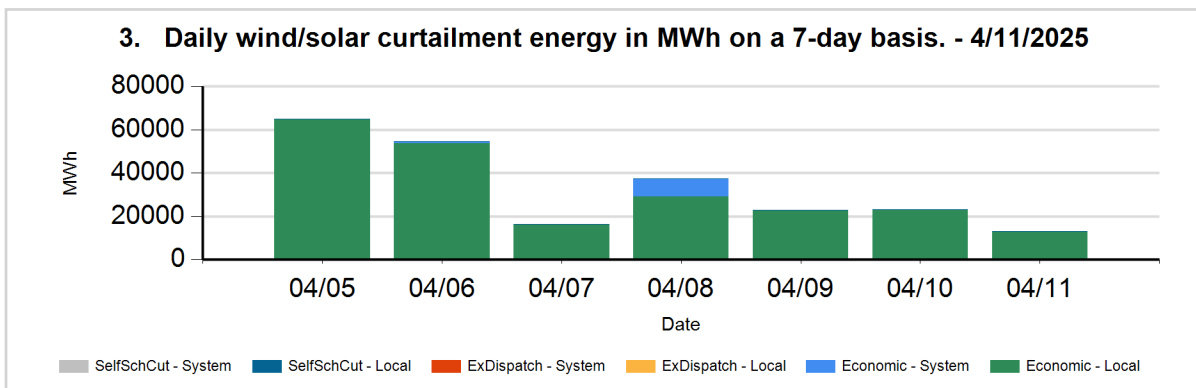
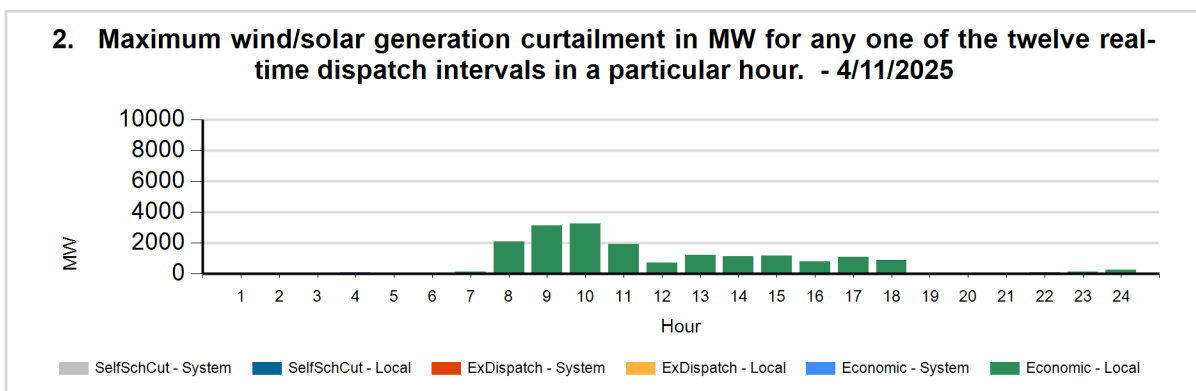
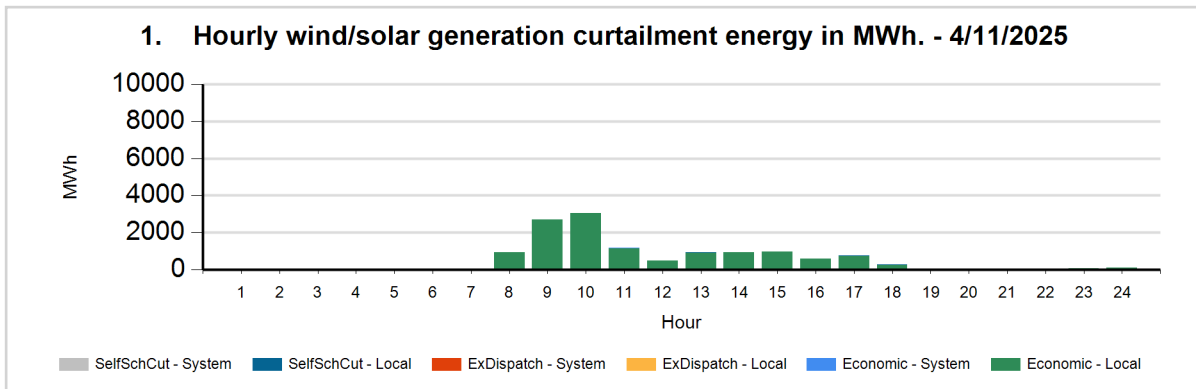
¹Only wind and solar resources can be reported in this manner because these resources have a forecast. Curtailment is defined as the difference between actual production and the forecast when actual production is less than the forecast.

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

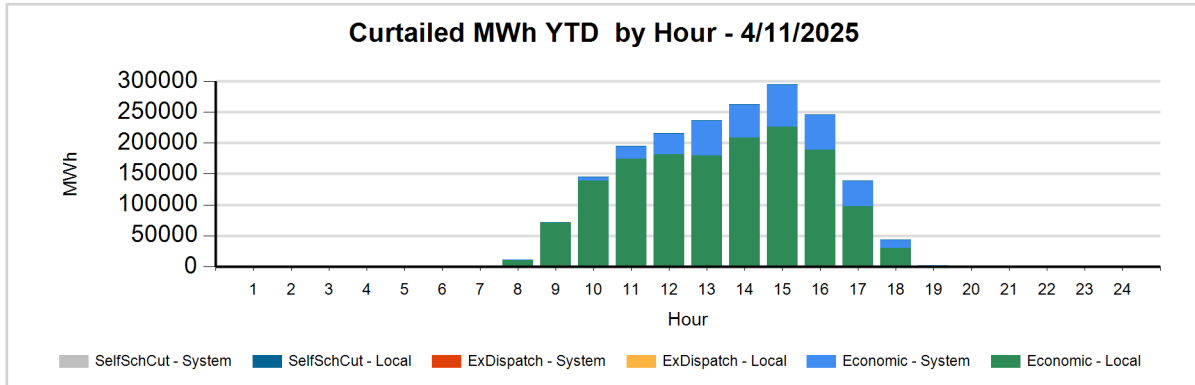
³Congestion occurs when available, least-cost energy cannot be delivered to some loads because transmission facilities do not have sufficient capacity to deliver the energy.

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

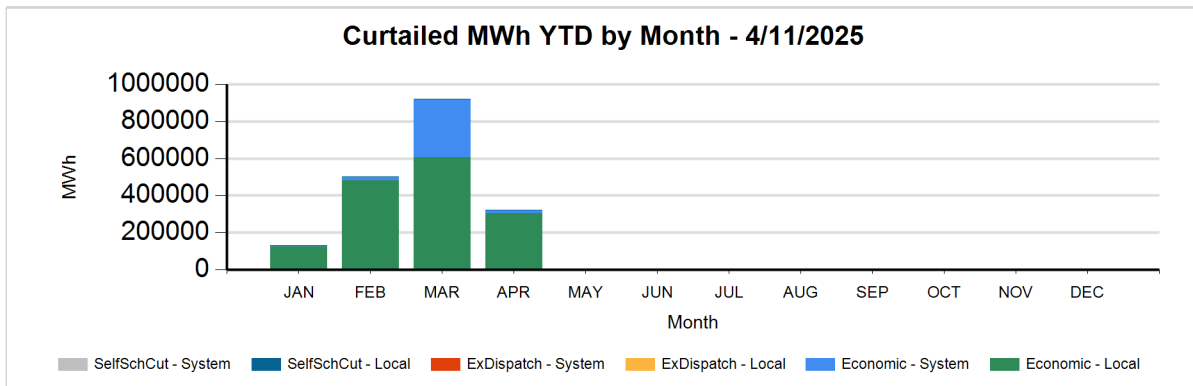
The following charts show the daily and 7-day wind and solar curtailment by category, if any.



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 - 4/11/2025
LocalEconomic	1,517,829
LocalSelfSchCut	265
SystemEconomic	356,441
TOTAL	1,874,534

Data used to produce hourly chart

DATE	HOUR	CURT TYPE	REASON	FUEL TYPE	CURTAILED MWH	CURTAILED MW
04/11	1	Economic	Local	WIND	0	
04/11	1	Economic	System	WIND	4	19
04/11	2	Economic	Local	WIND	0	
04/11	2	Economic	System	WIND	2	9
04/11	3	Economic	Local	WIND	1	
04/11	3	Economic	System	WIND	19	53
04/11	4	Economic	Local	WIND	8	
04/11	4	Economic	System	WIND	35	80
04/11	5	Economic	Local	WIND	10	52
04/11	5	Economic	System	WIND	7	
04/11	7	Economic	Local	SOLR	16	105
04/11	8	Economic	Local	SOLR	907	2015
04/11	8	Economic	Local	WIND	33	64
04/11	9	Economic	Local	SOLR	2674	3112
04/11	9	Economic	Local	WIND	34	26
04/11	10	Economic	Local	SOLR	3033	3223
04/11	10	Economic	Local	WIND	26	41
04/11	11	Economic	Local	SOLR	1123	1895
04/11	11	Economic	Local	WIND	2	6
04/11	11	Economic	System	SOLR	37	
04/11	11	Economic	System	WIND	6	
04/11	12	Economic	Local	SOLR	494	680
04/11	12	Economic	Local	WIND	3	10
04/11	12	SelfSchCut	Local	SOLR	0	
04/11	13	Economic	Local	SOLR	878	1145
04/11	13	Economic	Local	WIND	41	40
04/11	13	SelfSchCut	Local	SOLR	1	
04/11	14	Economic	Local	SOLR	831	943
04/11	14	Economic	Local	WIND	116	164
04/11	14	SelfSchCut	Local	SOLR	0	
04/11	15	Economic	Local	SOLR	829	1028

04/11	15	Economic	Local	WIND	149	141
04/11	16	Economic	Local	SOLR	559	720
04/11	16	Economic	Local	WIND	26	75
04/11	17	Economic	Local	SOLR	578	794
04/11	17	Economic	Local	WIND	140	294
04/11	17	Economic	System	SOLR	32	
04/11	17	Economic	System	WIND	11	
04/11	17	SelfSchCut	Local	SOLR	1	
04/11	18	Economic	Local	SOLR	145	501
04/11	18	Economic	Local	WIND	140	346
04/11	18	SelfSchCut	Local	SOLR	3	10
04/11	19	Economic	Local	SOLR	6	58
04/11	19	Economic	System	SOLR	1	
04/11	20	Economic	Local	WIND	2	16
04/11	21	Economic	Local	WIND	30	58
04/11	22	Economic	Local	WIND	21	64
04/11	23	Economic	Local	WIND	62	100
04/11	24	Economic	Local	WIND	105	235

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.