

Wind and Solar Curtailment February 25, 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.

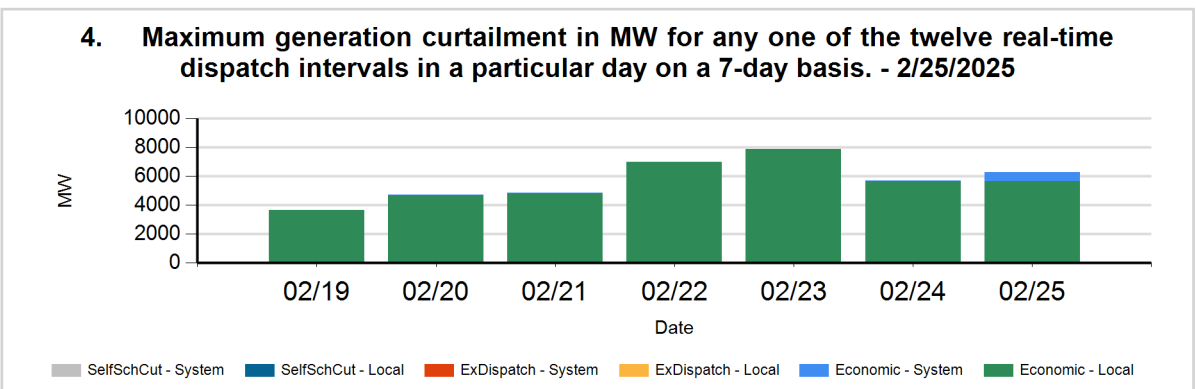
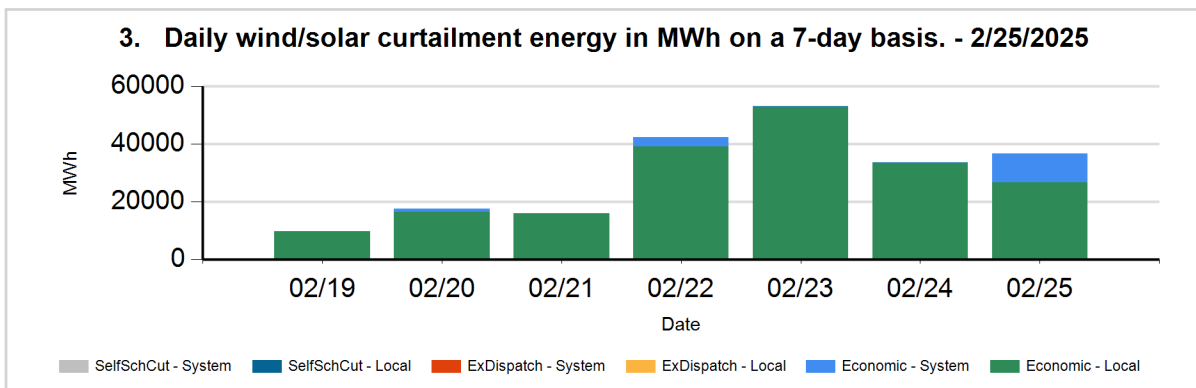
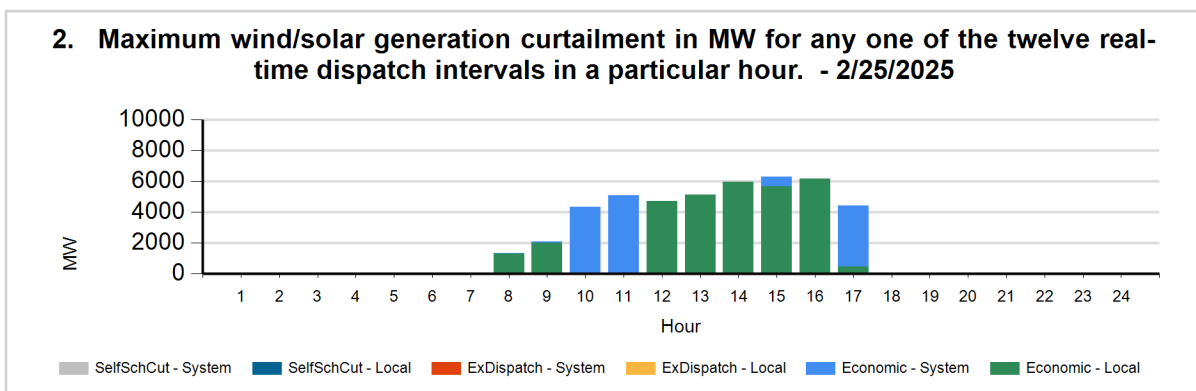
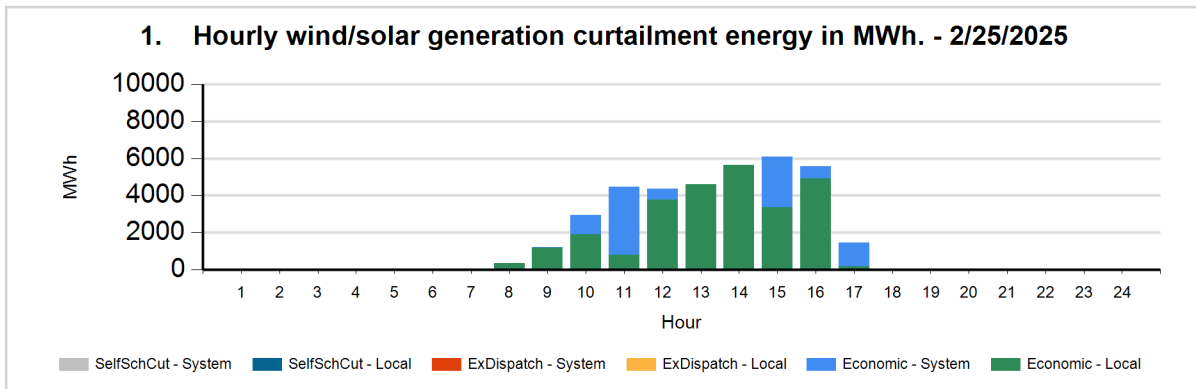
¹Only wind and solar resources can be reported in this manner because these resources have a forecast. Curtailment is defined as the difference between actual production and the forecast when actual production is less than the forecast.

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

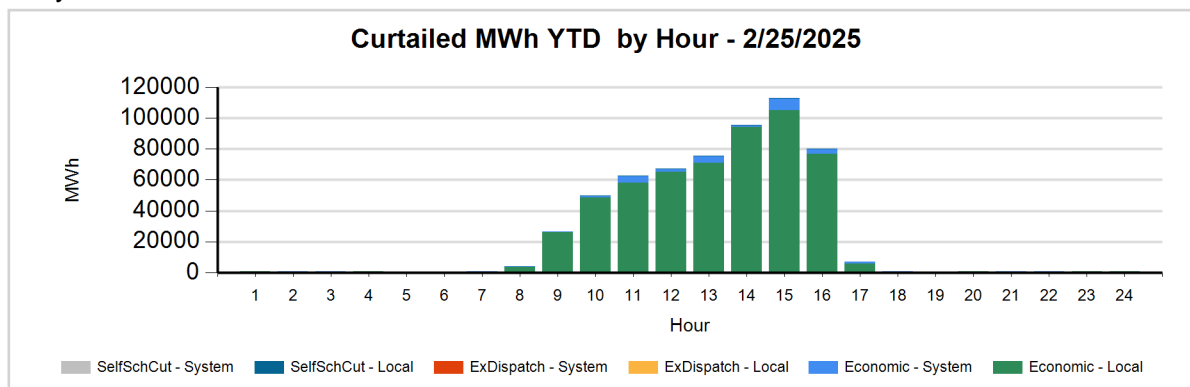
³Congestion occurs when available, least-cost energy cannot be delivered to some loads because transmission facilities do not have sufficient capacity to deliver the energy.

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

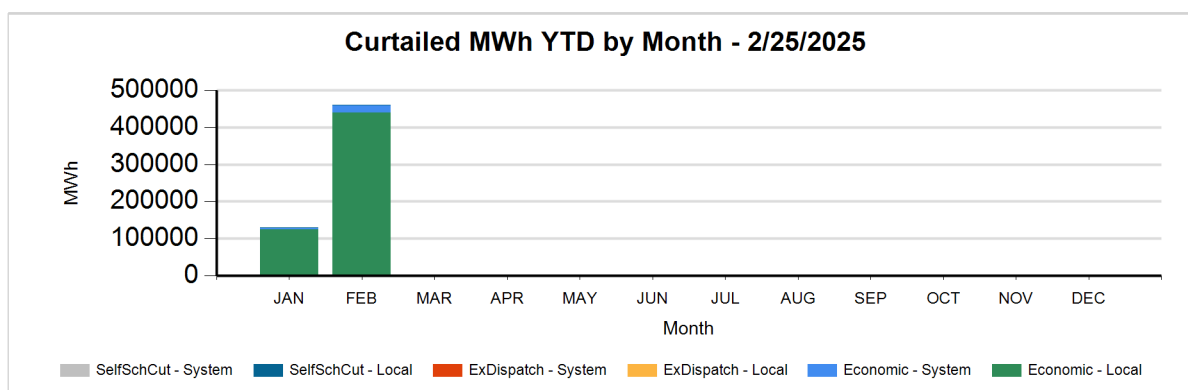
The following charts show the daily and 7-day wind and solar curtailment by category, if any.



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 - 2/25/2025
LocalEconomic	563,619
LocalSelfSchCut	10
SystemEconomic	26,488
TOTAL	590,117

Data used to produce hourly chart

DATE	HOUR	CURT TYPE	REASON	FUEL TYPE	CURTAILED MWH	CURTAILED MW
02/25	8	Economic	Local	SOLR	323	1210
02/25	8	Economic	Local	WIND	20	98
02/25	8	Economic	System	SOLR	0	2
02/25	9	Economic	Local	SOLR	1071	1881
02/25	9	Economic	Local	WIND	93	107
02/25	9	Economic	System	SOLR	27	112
02/25	10	Economic	Local	SOLR	1807	5
02/25	10	Economic	Local	WIND	108	
02/25	10	Economic	System	SOLR	964	4133
02/25	10	Economic	System	WIND	49	208
02/25	11	Economic	Local	SOLR	760	36
02/25	11	Economic	Local	WIND	35	
02/25	11	Economic	System	SOLR	3516	4873
02/25	11	Economic	System	WIND	150	179
02/25	12	Economic	Local	SOLR	3553	4471
02/25	12	Economic	Local	WIND	206	220
02/25	12	Economic	System	SOLR	615	
02/25	12	Economic	System	WIND	1	
02/25	13	Economic	Local	SOLR	4362	4871
02/25	13	Economic	Local	WIND	230	278
02/25	14	Economic	Local	SOLR	5367	5667
02/25	14	Economic	Local	WIND	280	288
02/25	15	Economic	Local	SOLR	3225	5407
02/25	15	Economic	Local	WIND	117	251
02/25	15	Economic	System	SOLR	2603	591
02/25	15	Economic	System	WIND	140	34
02/25	16	Economic	Local	SOLR	4632	5861
02/25	16	Economic	Local	WIND	279	317
02/25	16	Economic	System	SOLR	624	
02/25	16	Economic	System	WIND	50	
02/25	17	Economic	Local	SOLR	181	443

02/25	17	Economic	System	SOLR	1184	3702
02/25	17	Economic	System	WIND	75	266
02/25	18	Economic	System	SOLR	3	20

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.