

Wind and Solar Curtailment February 23, 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.

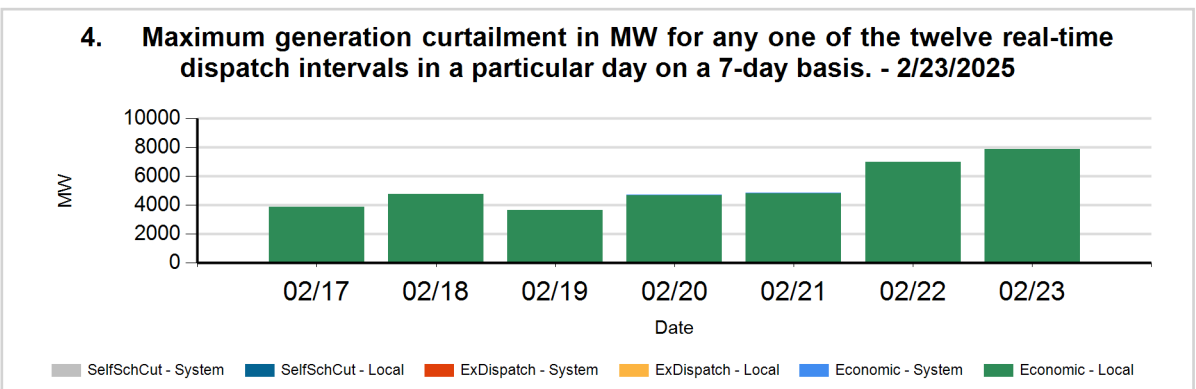
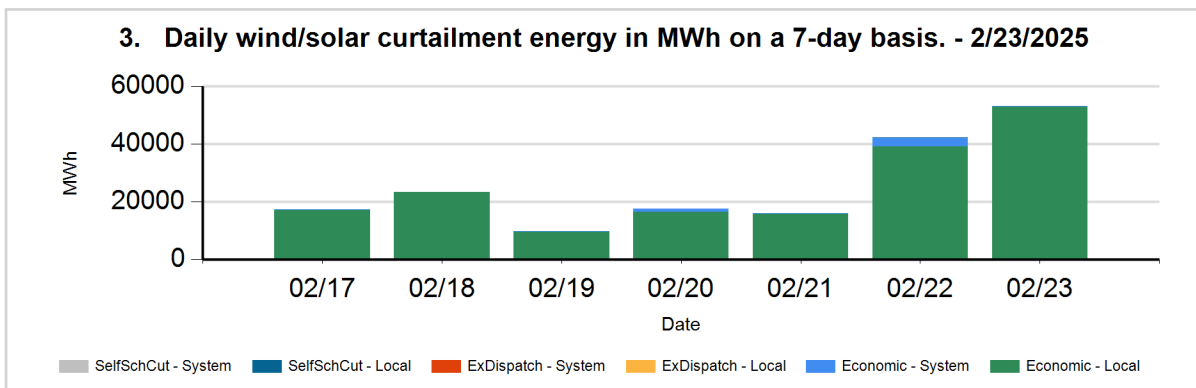
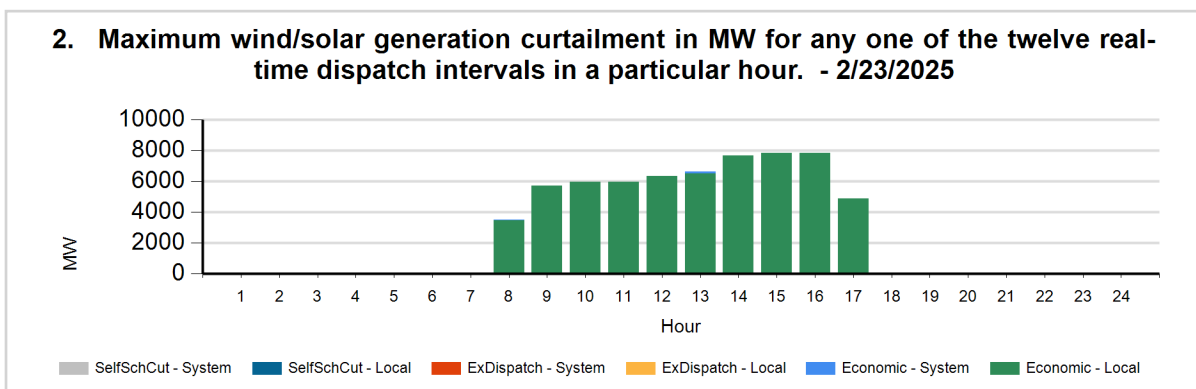
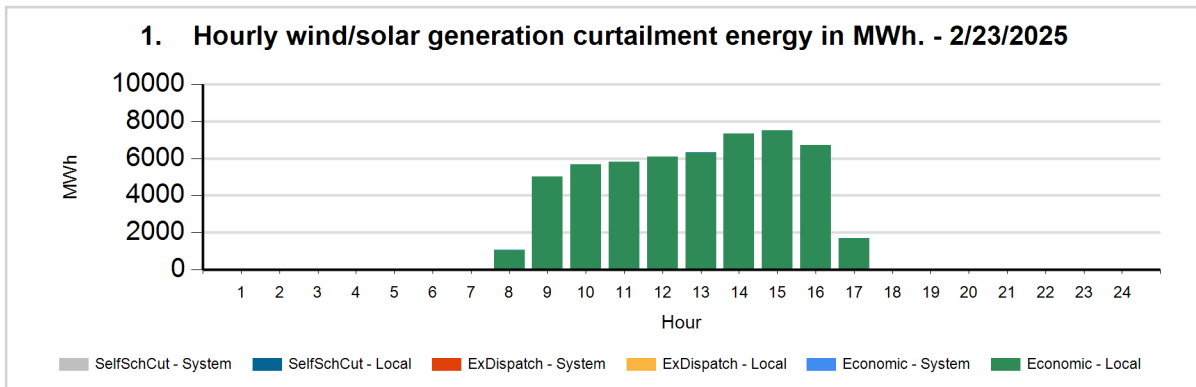
¹Only wind and solar resources can be reported in this manner because these resources have a forecast. Curtailment is defined as the difference between actual production and the forecast when actual production is less than the forecast.

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

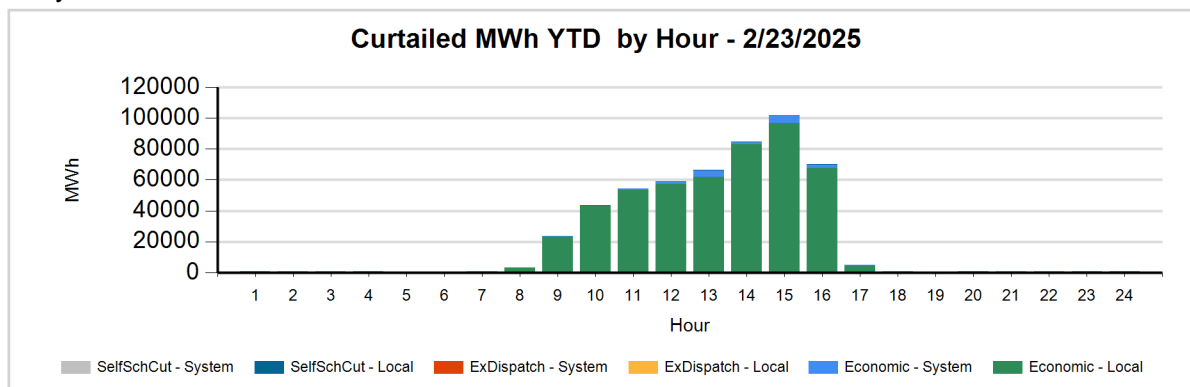
³Congestion occurs when available, least-cost energy cannot be delivered to some loads because transmission facilities do not have sufficient capacity to deliver the energy.

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

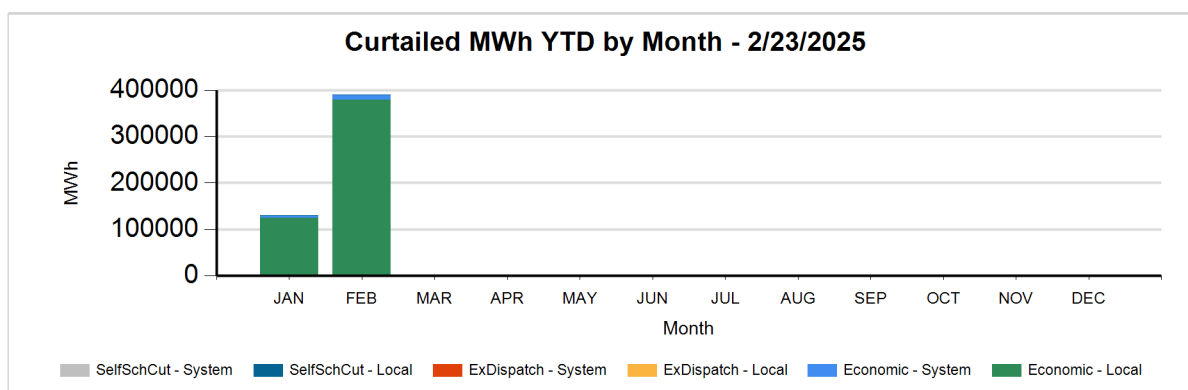
The following charts show the daily and 7-day wind and solar curtailment by category, if any.



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 - 2/23/2025
LocalEconomic	503,479
LocalSelfSchCut	9
SystemEconomic	16,469
TOTAL	519,957

Data used to produce hourly chart

DATE	HOUR	CURT TYPE	REASON	FUEL TYPE	CURTAILED MWH	CURTAILED MW
02/23	8	Economic	Local	SOLR	1048	3466
02/23	8	Economic	System	SOLR	8	
02/23	8	Economic	System	WIND	17	55
02/23	9	Economic	Local	SOLR	4988	5668
02/23	9	Economic	Local	WIND	23	25
02/23	10	Economic	Local	SOLR	5648	5911
02/23	10	Economic	Local	WIND	30	39
02/23	11	Economic	Local	SOLR	5766	5920
02/23	11	Economic	Local	WIND	35	33
02/23	12	Economic	Local	SOLR	6008	6248
02/23	12	Economic	Local	WIND	64	71
02/23	13	Economic	Local	SOLR	6227	6417
02/23	13	Economic	Local	WIND	78	82
02/23	13	Economic	System	WIND	18	112
02/23	14	Economic	Local	SOLR	7217	7553
02/23	14	Economic	Local	WIND	121	140
02/23	15	Economic	Local	SOLR	7383	7743
02/23	15	Economic	Local	WIND	119	118
02/23	16	Economic	Local	SOLR	6577	7703
02/23	16	Economic	Local	WIND	119	127
02/23	17	Economic	Local	SOLR	1645	4811
02/23	17	Economic	Local	WIND	42	79

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.

