

Wind and Solar Curtailment January 07, 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.

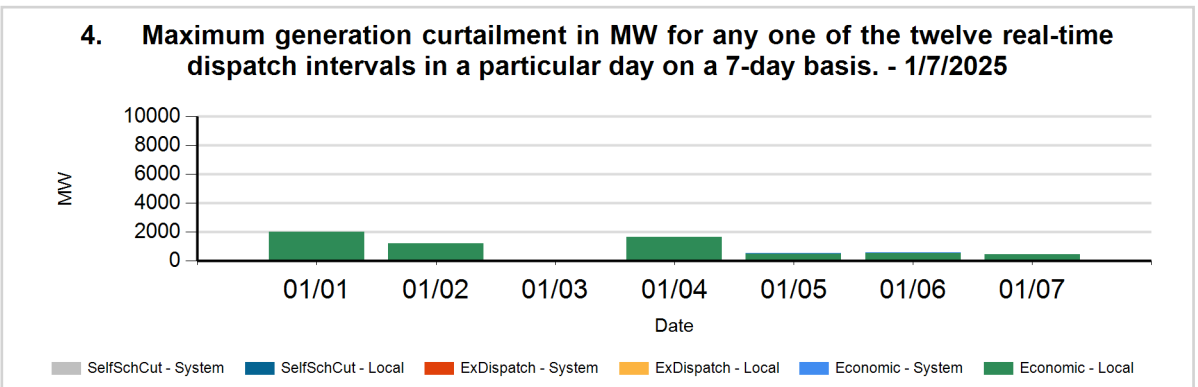
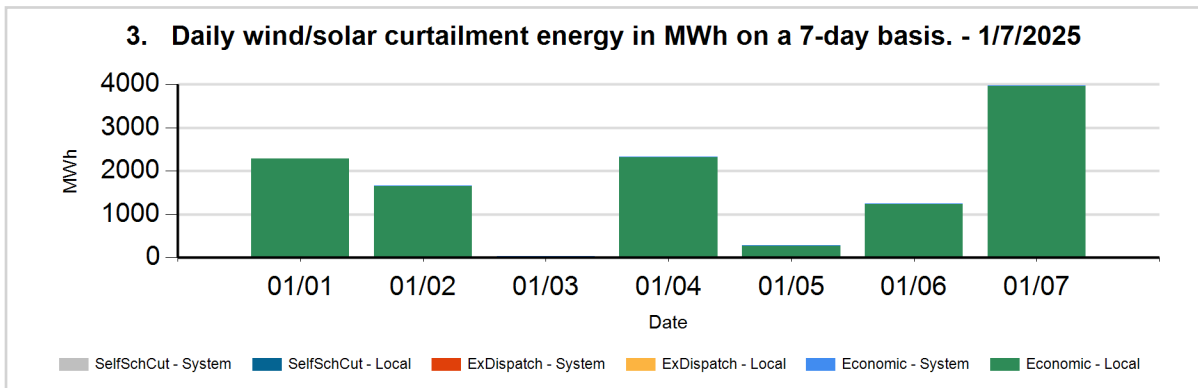
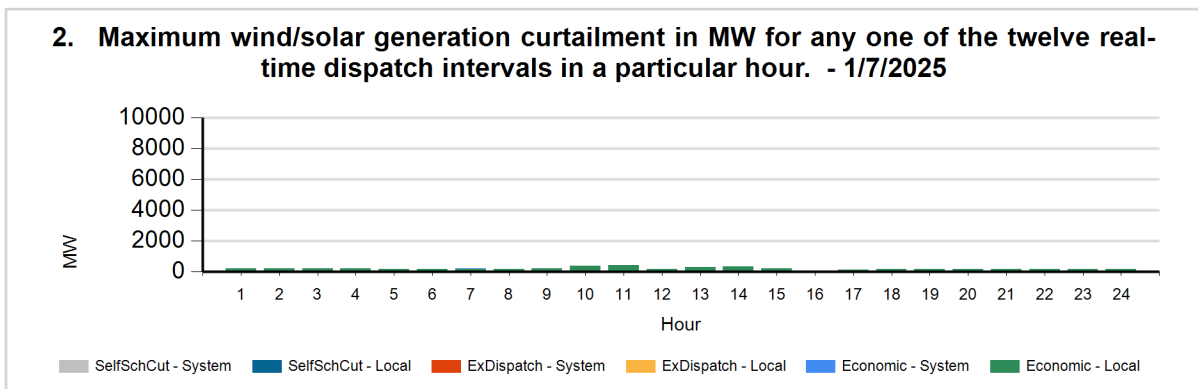
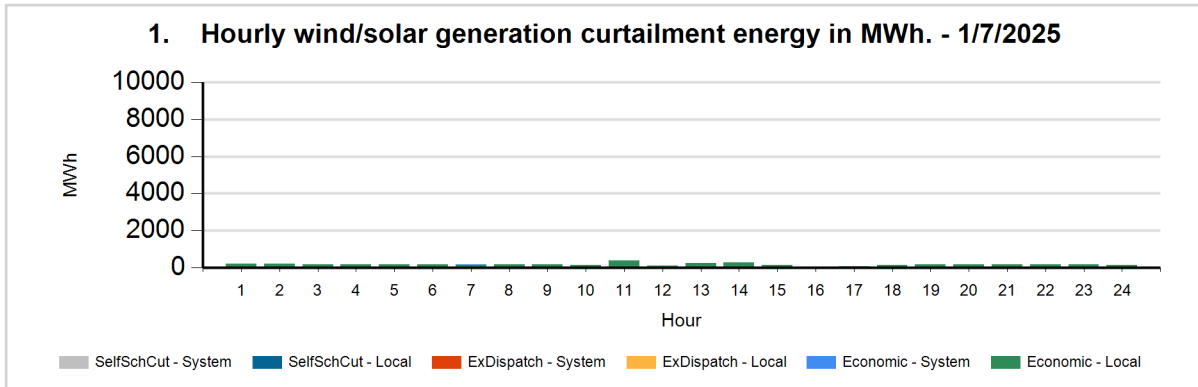
¹Only wind and solar resources can be reported in this manner because these resources have a forecast. Curtailment is defined as the difference between actual production and the forecast when actual production is less than the forecast.

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

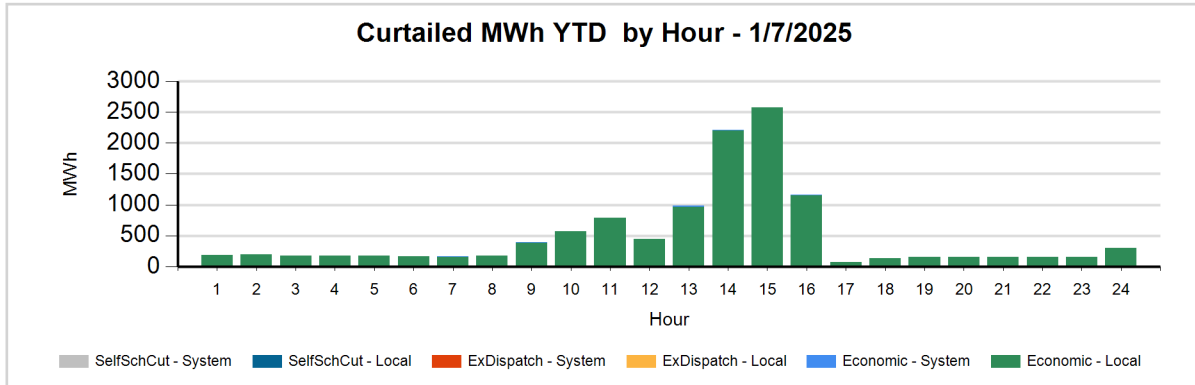
³Congestion occurs when available, least-cost energy cannot be delivered to some loads because transmission facilities do not have sufficient capacity to deliver the energy.

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

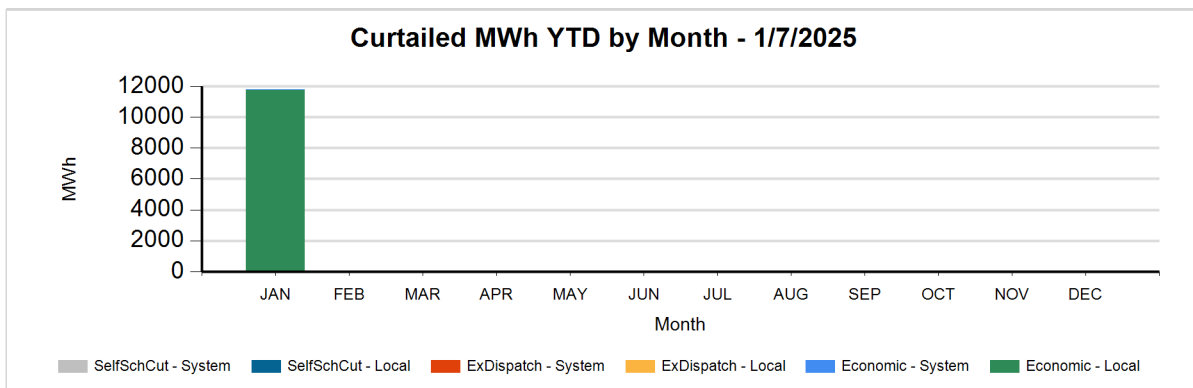
The following charts show the daily and 7-day wind and solar curtailment by category, if any.



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 - 1/7/2025
LocalEconomic	11,740
SystemEconomic	47
TOTAL	11,787

Data used to produce hourly chart

DATE	HOUR	CURT TYPE	REASON	FUEL TYPE	CURTAILED MWH	CURTAILED MW
01/07	1	Economic	Local	WIND	188	195
01/07	2	Economic	Local	WIND	195	199
01/07	3	Economic	Local	WIND	175	193
01/07	4	Economic	Local	WIND	174	191
01/07	5	Economic	Local	WIND	171	178
01/07	6	Economic	Local	WIND	162	168
01/07	7	Economic	Local	WIND	156	161
01/07	7	Economic	System	SOLR	1	16
01/07	7	Economic	System	WIND	3	34
01/07	8	Economic	Local	WIND	171	178
01/07	9	Economic	Local	SOLR	26	65
01/07	9	Economic	Local	WIND	159	156
01/07	10	Economic	Local	SOLR	38	297
01/07	10	Economic	Local	WIND	105	85
01/07	11	Economic	Local	SOLR	283	350
01/07	11	Economic	Local	WIND	83	77
01/07	12	Economic	Local	SOLR	5	34
01/07	12	Economic	Local	WIND	105	108
01/07	13	Economic	Local	SOLR	112	173
01/07	13	Economic	Local	WIND	114	97
01/07	14	Economic	Local	SOLR	193	256
01/07	14	Economic	Local	WIND	87	73
01/07	15	Economic	Local	SOLR	66	137
01/07	15	Economic	Local	WIND	66	81
01/07	16	Economic	Local	SOLR	5	15
01/07	16	Economic	Local	WIND	4	40
01/07	17	Economic	Local	WIND	73	117
01/07	18	Economic	Local	WIND	129	150
01/07	19	Economic	Local	WIND	152	157
01/07	20	Economic	Local	WIND	157	164
01/07	21	Economic	Local	WIND	153	158

01/07	22	Economic	Local	WIND	152	158
01/07	23	Economic	Local	WIND	158	161
01/07	24	Economic	Local	WIND	141	157

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.