

## Wind and Solar Curtailment January 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 why<sup>1</sup>. This report should be read in the context of the Renewables Watch report for a more complete understanding of both renewable curtailment and generation<sup>2</sup>.

Wind and solar curtailments are grouped into the following categories:

1. Economic - Local: Market dispatch of generators with economic bids to mitigate local congestion<sup>3</sup>.
2. Economic - System: Market dispatch of generators with economic bids to mitigate system-wide oversupply<sup>4</sup>.
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.

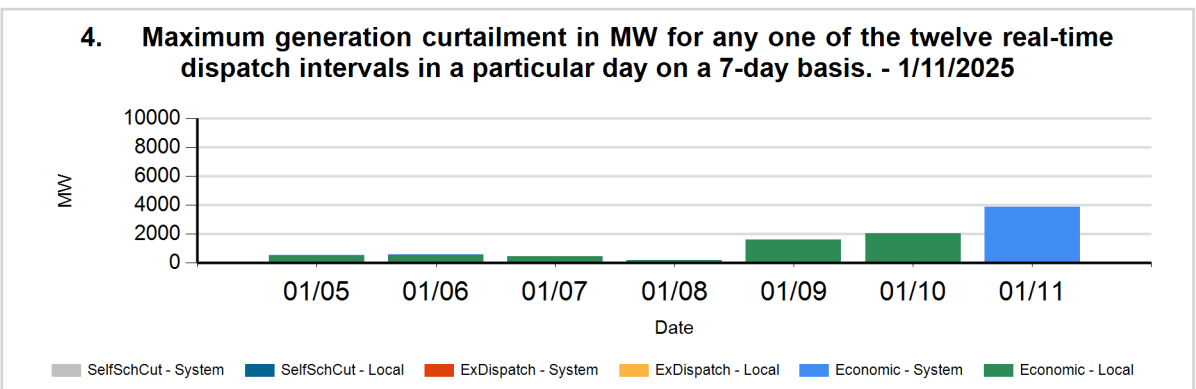
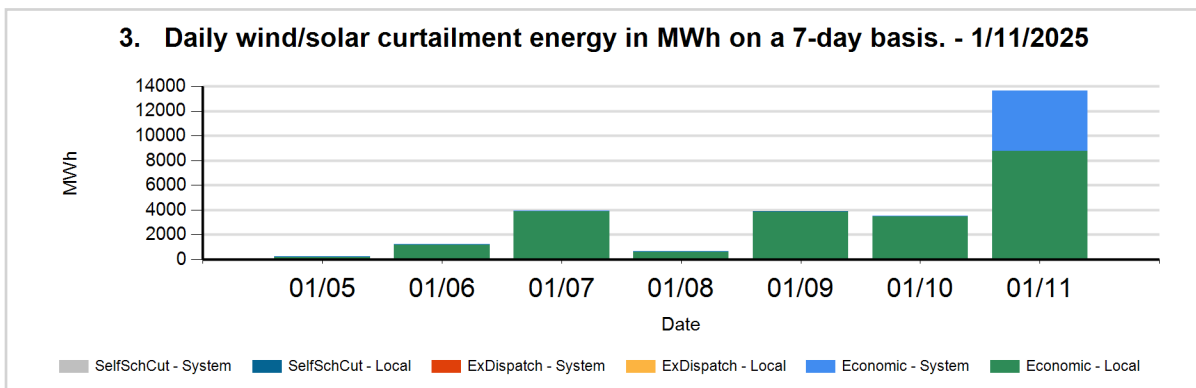
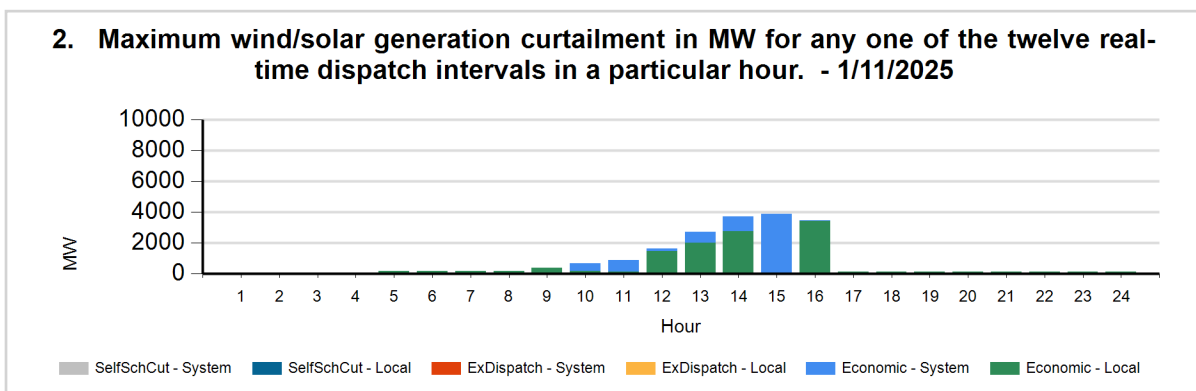
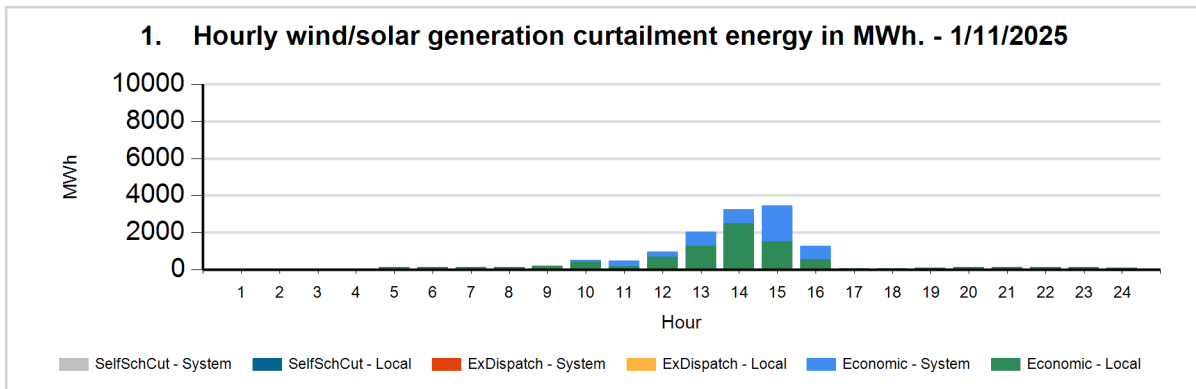
<sup>1</sup>Only wind and solar resources can be reported in this manner because these resources have a forecast. Curtailment is defined as the difference between actual production and the forecast when actual production is less than the forecast.

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

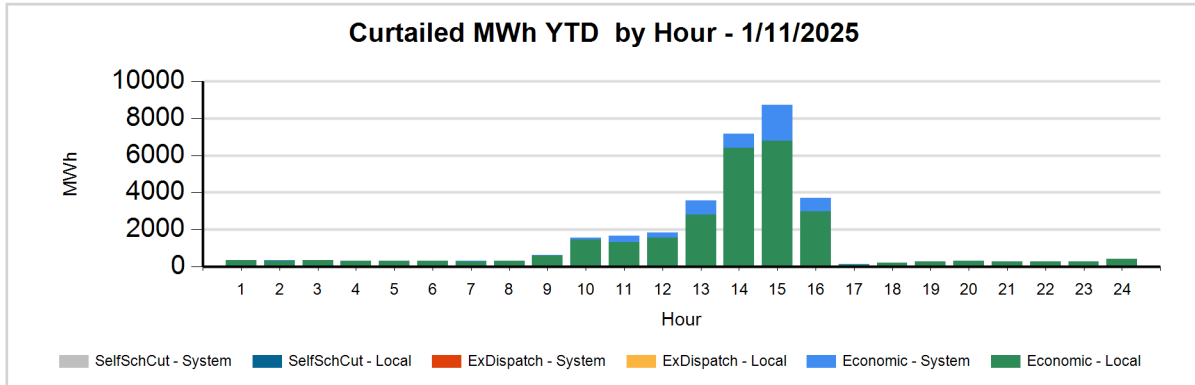
<sup>3</sup>Congestion occurs when available, least-cost energy cannot be delivered to some loads because transmission facilities do not have sufficient capacity to deliver the energy.

<sup>4</sup>For more information on oversupply conditions, please see: [http://www.caiso.com/Documents/FlexibleResourcesHelpRenewables\\_FastFacts.pdf](http://www.caiso.com/Documents/FlexibleResourcesHelpRenewables_FastFacts.pdf)

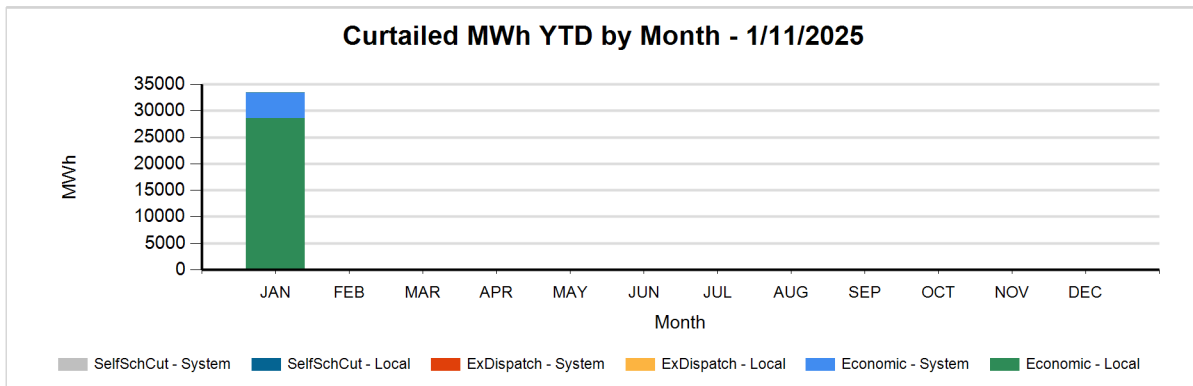
The following charts show the daily and 7-day wind and solar curtailment by category, if any.



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 - 1/11/2025
LocalEconomic	28,567
LocalSelfSchCut	1
SystemEconomic	4,910
TOTAL	33,477

### Data used to produce hourly chart

DATE	HOUR	CURT TYPE	REASON	FUEL TYPE	CURTAILED MWH	CURTAILED MW
01/11	2	Economic	System	WIND	1	11
01/11	4	Economic	Local	WIND	3	38
01/11	5	Economic	Local	WIND	142	170
01/11	6	Economic	Local	WIND	151	172
01/11	7	Economic	Local	WIND	142	147
01/11	8	Economic	Local	WIND	140	149
01/11	9	Economic	Local	SOLR	39	216
01/11	9	Economic	Local	WIND	151	155
01/11	10	Economic	Local	SOLR	260	
01/11	10	Economic	Local	WIND	161	161
01/11	10	Economic	System	SOLR	80	461
01/11	10	Economic	System	WIND	9	22
01/11	11	Economic	Local	SOLR	11	
01/11	11	Economic	Local	WIND	150	137
01/11	11	Economic	System	SOLR	296	654
01/11	11	Economic	System	WIND	38	89
01/11	12	Economic	Local	SOLR	553	1288
01/11	12	Economic	Local	WIND	148	149
01/11	12	Economic	System	SOLR	222	116
01/11	12	Economic	System	WIND	45	80
01/11	13	Economic	Local	SOLR	1145	1841
01/11	13	Economic	Local	WIND	143	141
01/11	13	Economic	System	SOLR	705	680
01/11	13	Economic	System	WIND	38	31
01/11	14	Economic	Local	SOLR	2385	2554
01/11	14	Economic	Local	WIND	110	213
01/11	14	Economic	System	SOLR	571	672
01/11	14	Economic	System	WIND	174	267
01/11	15	Economic	Local	SOLR	1509	
01/11	15	Economic	Local	WIND	9	
01/11	15	Economic	System	SOLR	1689	3426

01/11	15	Economic	System	WIND	261	435
01/11	16	Economic	Local	SOLR	408	3153
01/11	16	Economic	Local	WIND	143	308
01/11	16	Economic	System	SOLR	703	
01/11	16	Economic	System	WIND	19	5
01/11	17	Economic	Local	WIND	55	100
01/11	18	Economic	Local	WIND	69	104
01/11	19	Economic	Local	WIND	108	122
01/11	20	Economic	Local	WIND	126	137
01/11	21	Economic	Local	WIND	128	135
01/11	22	Economic	Local	WIND	131	136
01/11	23	Economic	Local	WIND	127	131
01/11	24	Economic	Local	WIND	113	127

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](mailto:ShortTermForecasting@caiso.com).