

## Wind and Solar Curtailment February 24, 2024

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.

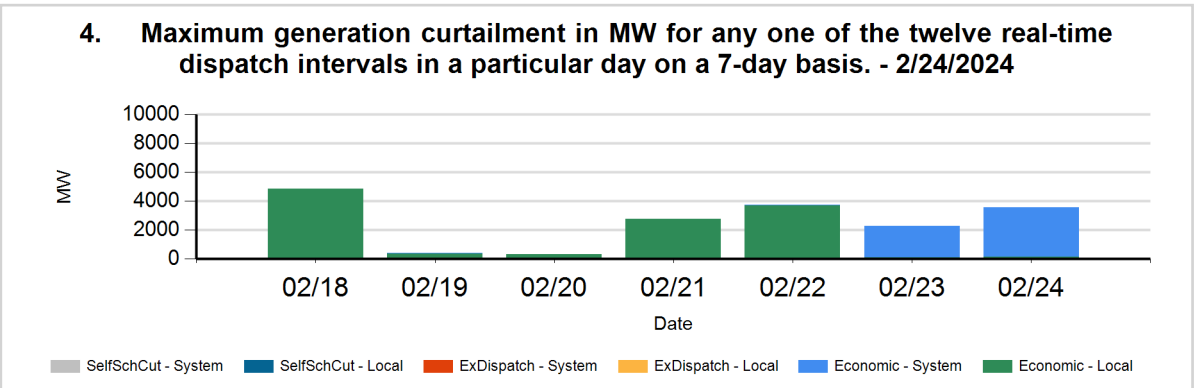
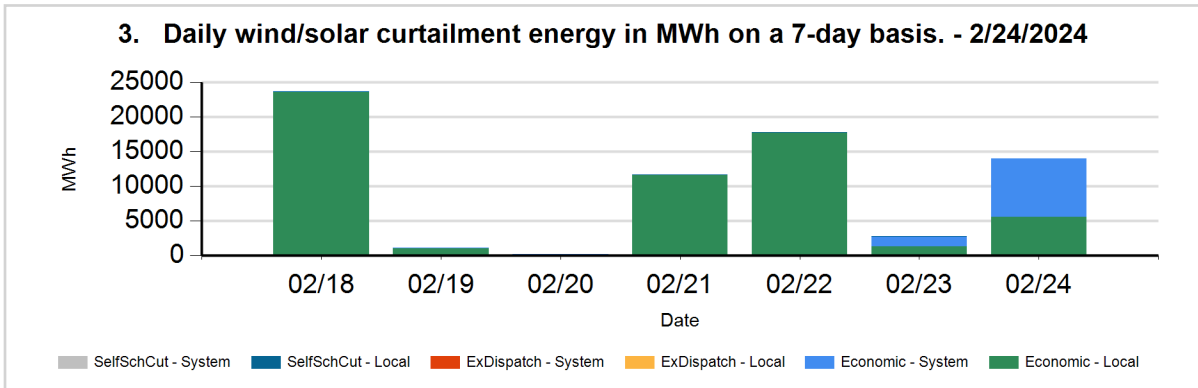
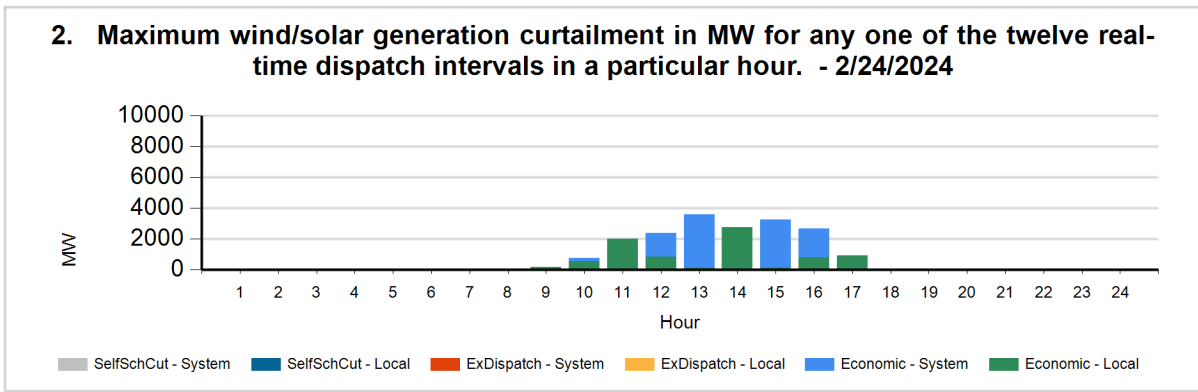
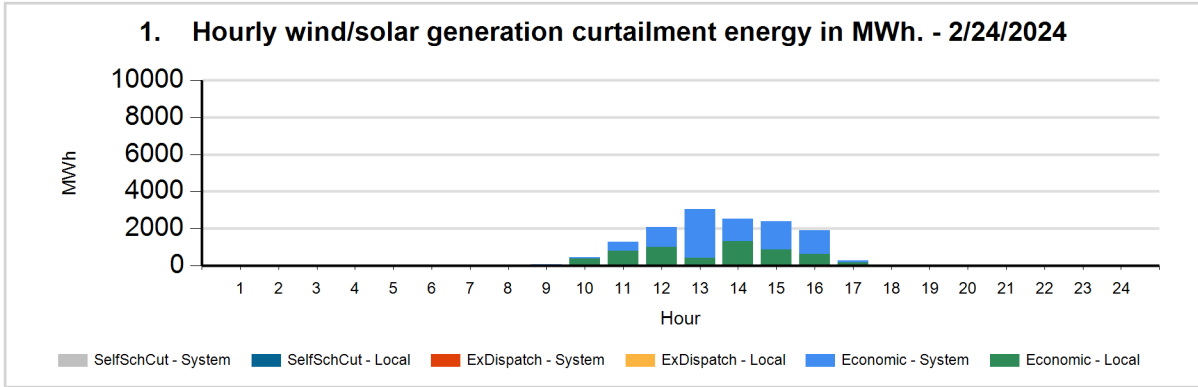
<sup>1</sup>Only wind and solar resources can be reported in this manner because these resources have a forecast. Curtailment is defined as the difference between actual production and the forecast when actual production is less than the forecast.

<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>.

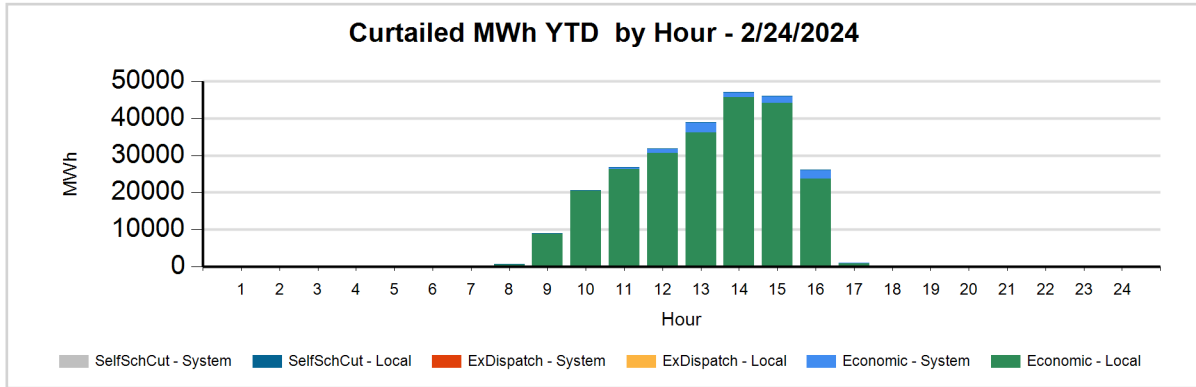
<sup>3</sup>Congestion occurs when available, least-cost energy cannot be delivered to some loads because transmission facilities do not have sufficient capacity to deliver the energy.

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

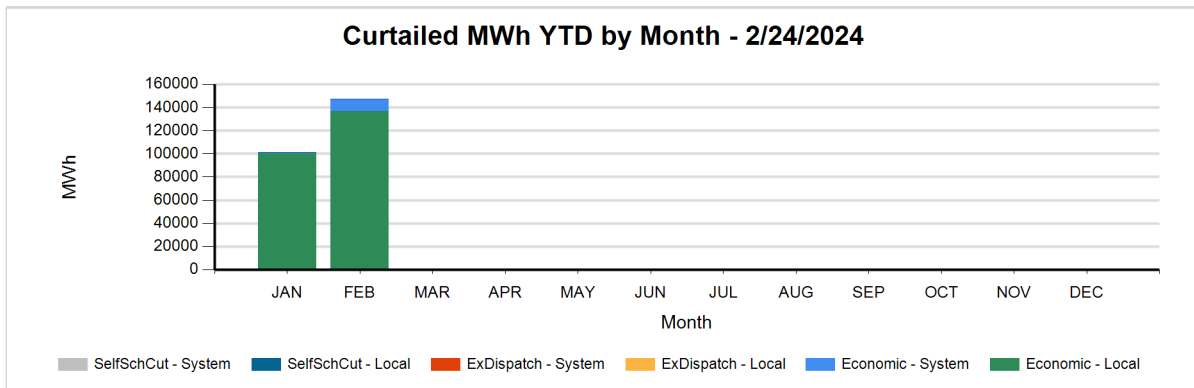
The following charts show the daily and 7-day wind and solar curtailment by category, if any.



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 - 2/24/2024
LocalEconomic	237,367
LocalSelfSchCut	192
SystemEconomic	10,748
<b>TOTAL</b>	<b>248,308</b>

**Data used to produce hourly chart**

DATE	HOUR	CURT TYPE	REASON	FUEL TYPE	CURTAILED MWH	CURTAILED MW
02/24	9	Economic	Local	SOLR	69	171
02/24	9	Economic	System	SOLR	6	
02/24	9	Economic	System	WIND	1	
02/24	10	Economic	Local	SOLR	380	518
02/24	10	Economic	Local	WIND	0	
02/24	10	Economic	System	SOLR	63	227
02/24	10	Economic	System	WIND	9	18
02/24	11	Economic	Local	SOLR	792	1973
02/24	11	Economic	Local	WIND	8	42
02/24	11	Economic	System	SOLR	438	
02/24	11	Economic	System	WIND	31	
02/24	12	Economic	Local	SOLR	982	841
02/24	12	Economic	Local	WIND	8	
02/24	12	Economic	System	SOLR	1039	1477
02/24	12	Economic	System	WIND	40	60
02/24	13	Economic	Local	SOLR	392	108
02/24	13	Economic	Local	WIND	5	
02/24	13	Economic	System	SOLR	2588	3424
02/24	13	Economic	System	WIND	40	37
02/24	14	Economic	Local	SOLR	1284	2702
02/24	14	Economic	Local	WIND	22	54
02/24	14	Economic	System	SOLR	1183	
02/24	14	Economic	System	WIND	27	
02/24	14	SelfSchCut	Local	SOLR	0	
02/24	15	Economic	Local	SOLR	840	109
02/24	15	Economic	Local	WIND	5	
02/24	15	Economic	System	SOLR	1503	3077
02/24	15	Economic	System	WIND	27	47
02/24	16	Economic	Local	SOLR	627	768
02/24	16	Economic	Local	WIND	0	
02/24	16	Economic	System	SOLR	1254	1860

02/24	16	Economic	System	WIND	16	31
02/24	17	Economic	Local	SOLR	166	893
02/24	17	Economic	Local	WIND	1	7
02/24	17	Economic	System	SOLR	110	
02/24	17	Economic	System	WIND	2	

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).