

Wind and Solar Curtailment March 01, 2024

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.

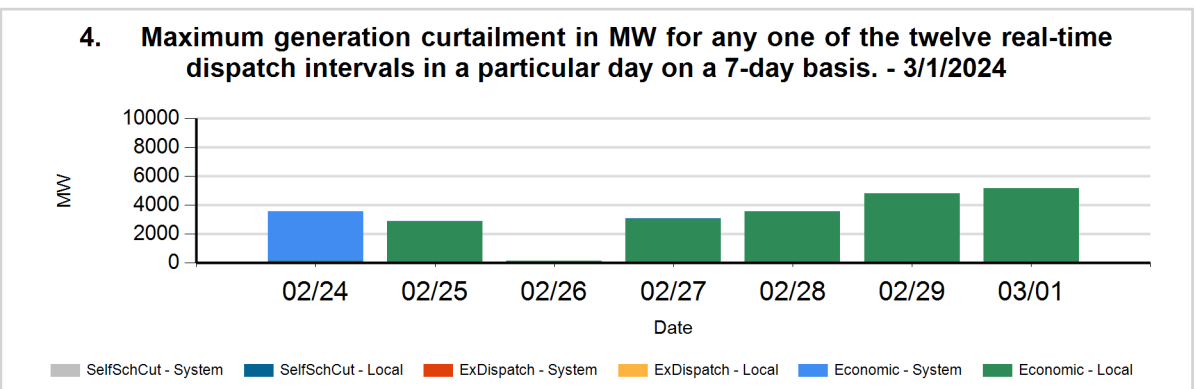
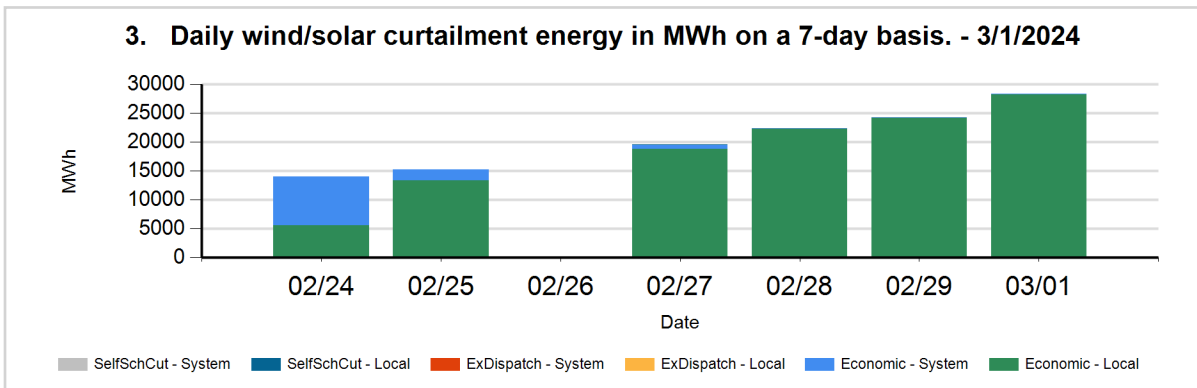
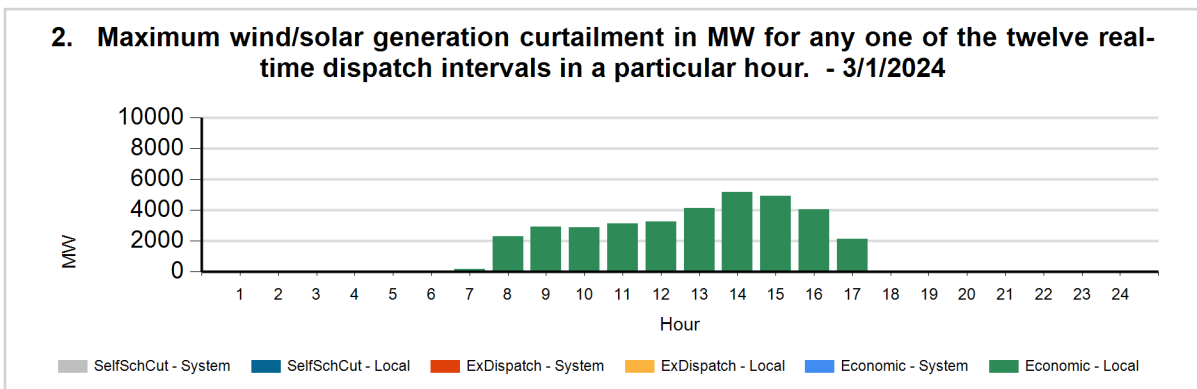
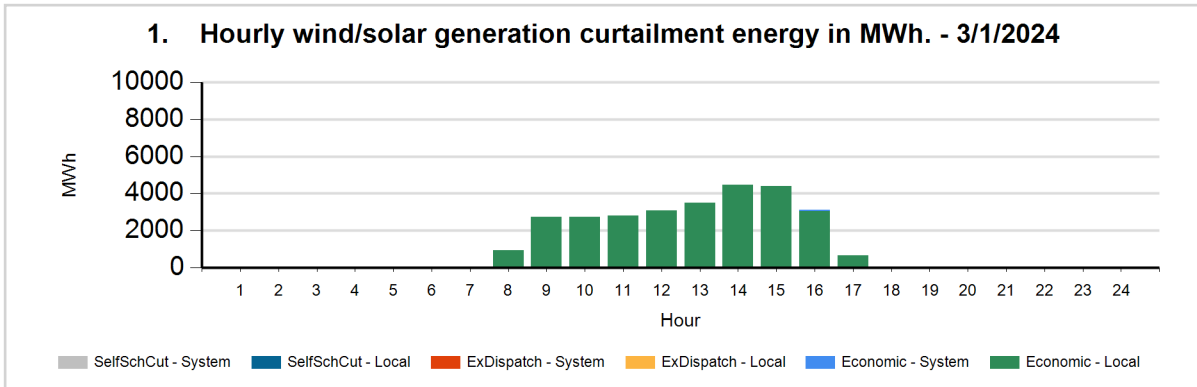
¹Only wind and solar resources can be reported in this manner because these resources have a forecast. Curtailment is defined as the difference between actual production and the forecast when actual production is less than the forecast.

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

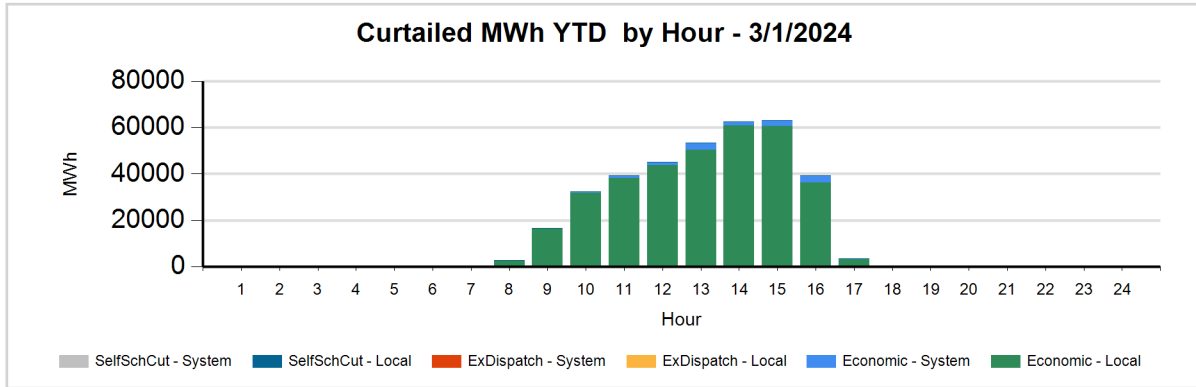
³Congestion occurs when available, least-cost energy cannot be delivered to some loads because transmission facilities do not have sufficient capacity to deliver the energy.

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

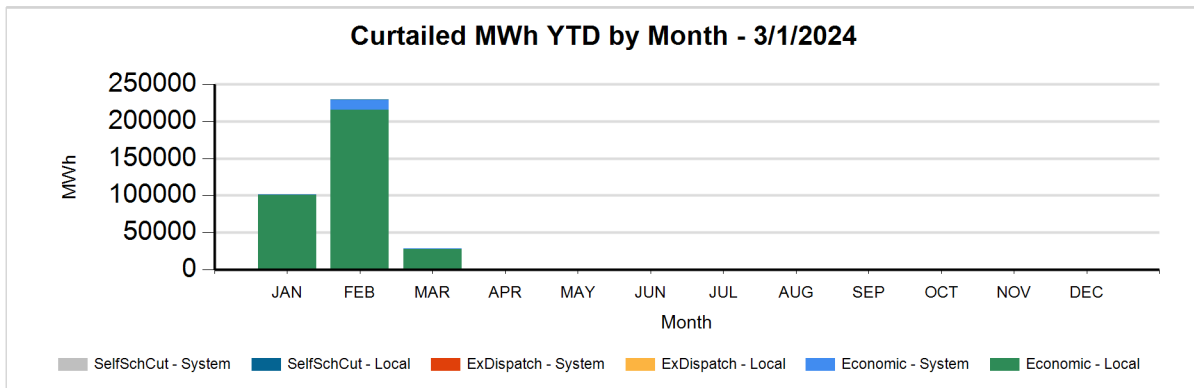
The following charts show the daily and 7-day wind and solar curtailment by category, if any.



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 - 3/1/2024
LocalEconomic	344,441
LocalSelfSchCut	257
SystemEconomic	13,598
TOTAL	358,297

Data used to produce hourly chart

DATE	HOUR	CURT TYPE	REASON	FUEL TYPE	CURTAILED MWH	CURTAILED MW
03/01	7	Economic	Local	SOLR	0	5
03/01	7	Economic	Local	WIND	36	142
03/01	8	Economic	Local	SOLR	740	2065
03/01	8	Economic	Local	WIND	181	241
03/01	9	Economic	Local	SOLR	2500	2667
03/01	9	Economic	Local	WIND	231	263
03/01	10	Economic	Local	SOLR	2461	2537
03/01	10	Economic	Local	WIND	253	325
03/01	10	Economic	System	SOLR	0	
03/01	11	Economic	Local	SOLR	2536	2807
03/01	11	Economic	Local	WIND	276	330
03/01	12	Economic	Local	SOLR	2623	2694
03/01	12	Economic	Local	WIND	445	542
03/01	13	Economic	Local	SOLR	2921	3441
03/01	13	Economic	Local	WIND	558	667
03/01	14	Economic	Local	SOLR	3792	4455
03/01	14	Economic	Local	WIND	683	702
03/01	15	Economic	Local	SOLR	3703	4183
03/01	15	Economic	Local	WIND	689	723
03/01	16	Economic	Local	SOLR	2553	3441
03/01	16	Economic	Local	WIND	504	609
03/01	16	Economic	System	SOLR	51	
03/01	16	Economic	System	WIND	0	
03/01	17	Economic	Local	SOLR	515	1794
03/01	17	Economic	Local	WIND	131	338
03/01	17	Economic	System	SOLR	0	
03/01	18	Economic	Local	SOLR	2	22
03/01	18	Economic	Local	WIND	1	16

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.



California ISO