

Wind and Solar Curtailment March 19, 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.

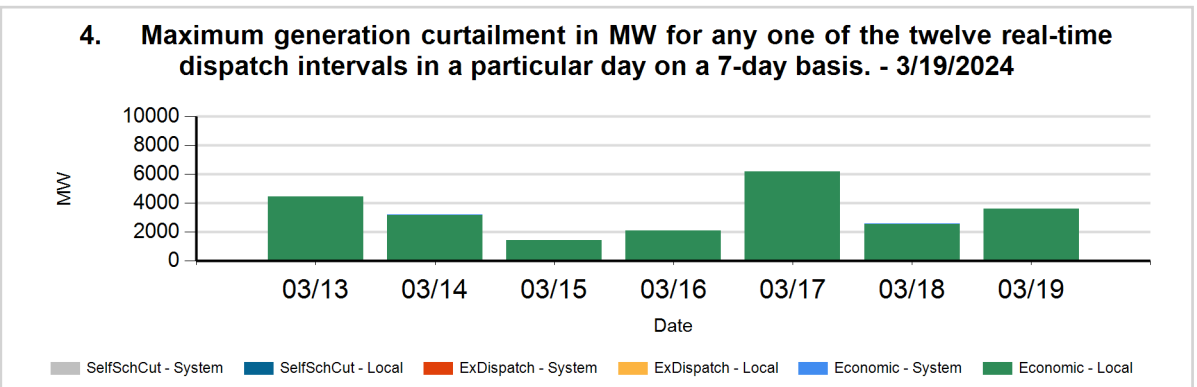
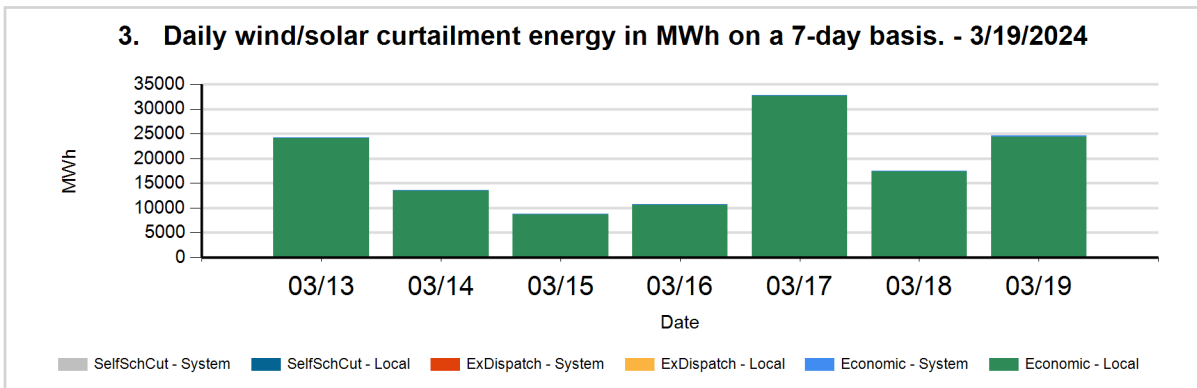
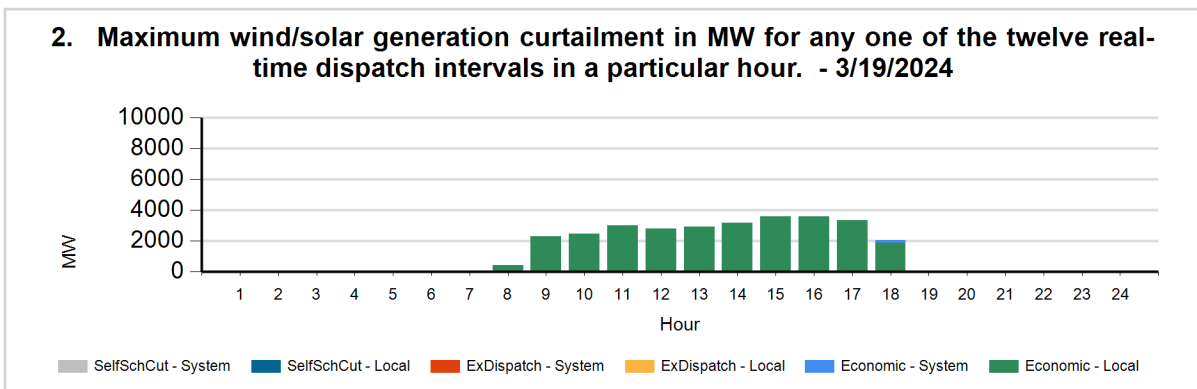
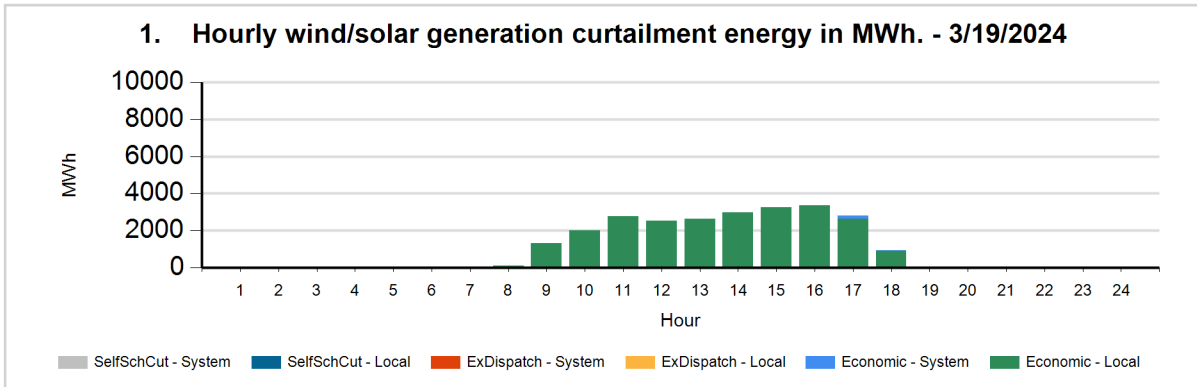
¹Only wind and solar resources can be reported in this manner because these resources have a forecast. Curtailment is defined as the difference between actual production and the forecast when actual production is less than the forecast.

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

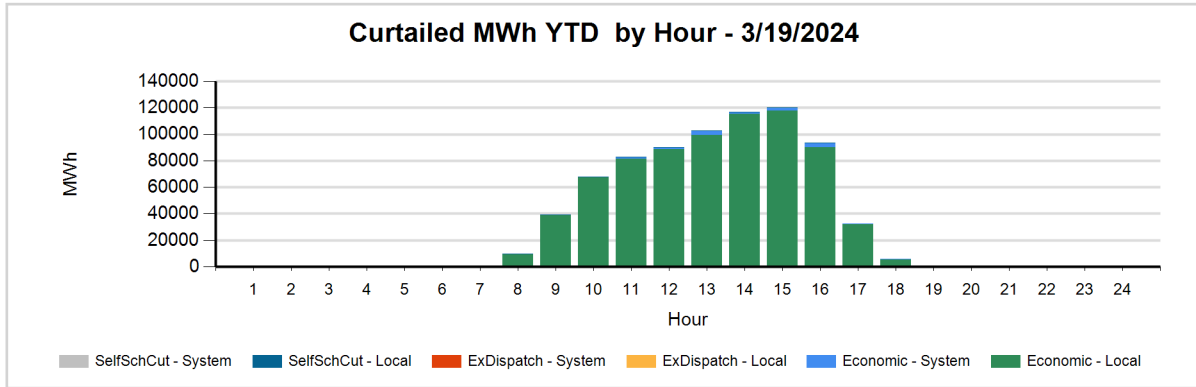
³Congestion occurs when available, least-cost energy cannot be delivered to some loads because transmission facilities do not have sufficient capacity to deliver the energy.

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

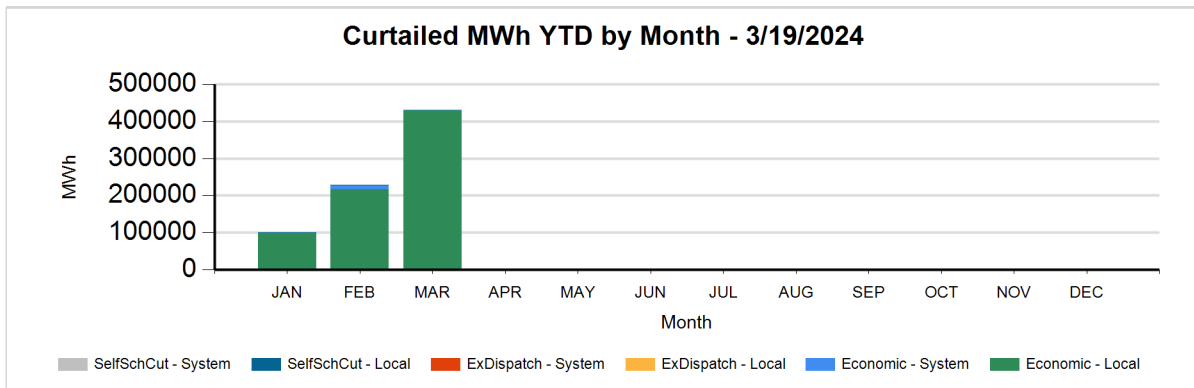
The following charts show the daily and 7-day wind and solar curtailment by category, if any.



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 - 3/19/2024
LocalEconomic	745,703
LocalSelfSchCut	257
SystemEconomic	14,946
TOTAL	760,905

Data used to produce hourly chart

DATE	HOUR	CURT TYPE	REASON	FUEL TYPE	CURTAILED MWH	CURTAILED MW
03/19	8	Economic	Local	SOLR	103	416
03/19	9	Economic	Local	SOLR	1294	2285
03/19	9	Economic	Local	WIND	2	8
03/19	10	Economic	Local	SOLR	2002	2474
03/19	10	Economic	Local	WIND	5	3
03/19	11	Economic	Local	SOLR	2753	2979
03/19	11	Economic	Local	WIND	3	1
03/19	12	Economic	Local	SOLR	2519	2777
03/19	12	Economic	Local	WIND	5	6
03/19	13	Economic	Local	SOLR	2627	2907
03/19	13	Economic	Local	WIND	12	3
03/19	14	Economic	Local	SOLR	2937	3143
03/19	14	Economic	Local	WIND	27	22
03/19	15	Economic	Local	SOLR	3228	3559
03/19	15	Economic	Local	WIND	19	25
03/19	15	Economic	System	WIND	0	
03/19	16	Economic	Local	SOLR	3335	3581
03/19	16	Economic	Local	WIND	12	2
03/19	16	Economic	System	SOLR	0	
03/19	17	Economic	Local	SOLR	2599	3327
03/19	17	Economic	Local	WIND	13	4
03/19	17	Economic	System	SOLR	161	
03/19	17	Economic	System	WIND	17	
03/19	18	Economic	Local	SOLR	888	1853
03/19	18	Economic	System	SOLR	13	83
03/19	18	Economic	System	WIND	16	109

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.

