

Wind and Solar Curtailment March 31, 2023

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.

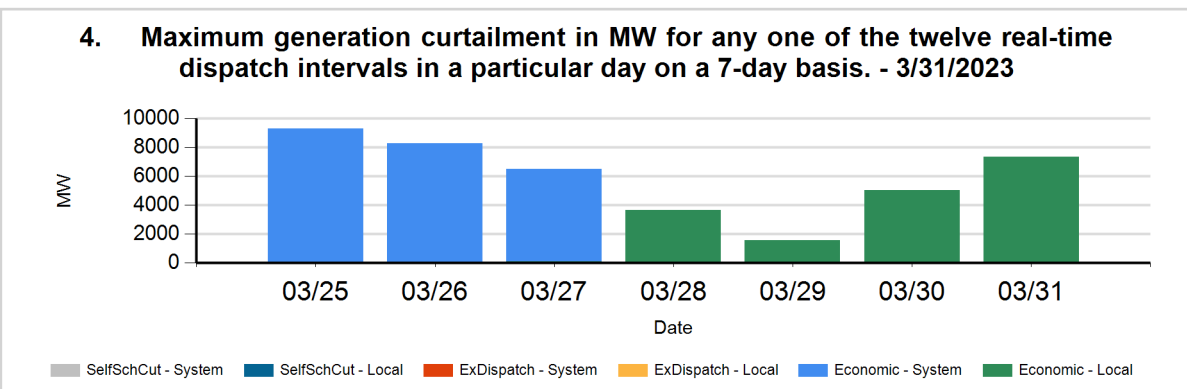
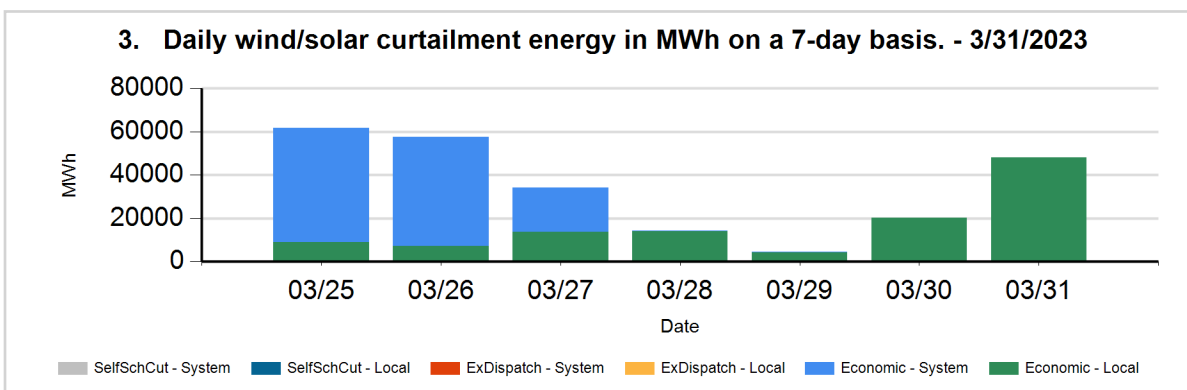
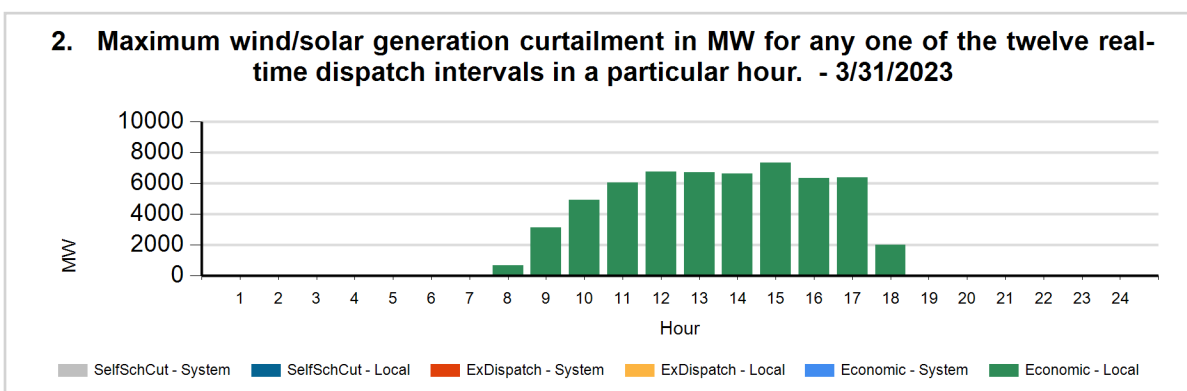
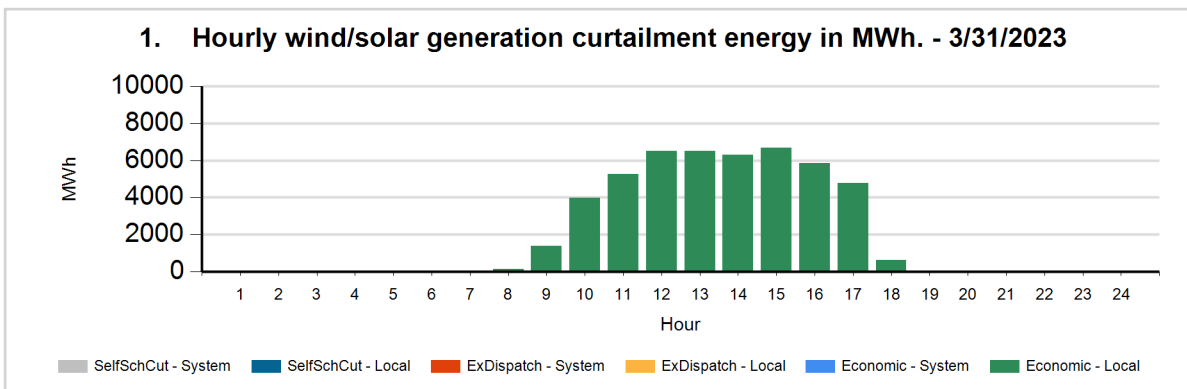
¹Only wind and solar resources can be reported in this manner because these resources have a forecast. Curtailment is defined as the difference between actual production and the forecast when actual production is less than the forecast.

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

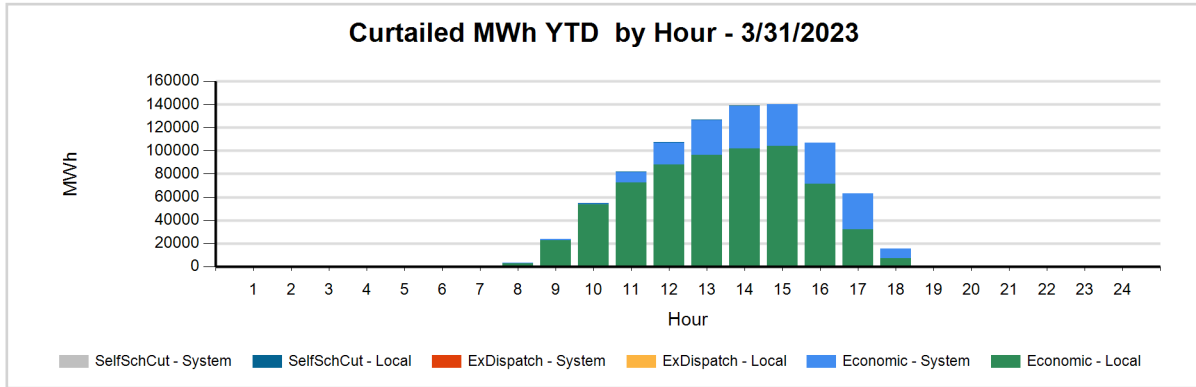
³Congestion occurs when available, least-cost energy cannot be delivered to some loads because transmission facilities do not have sufficient capacity to deliver the energy.

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

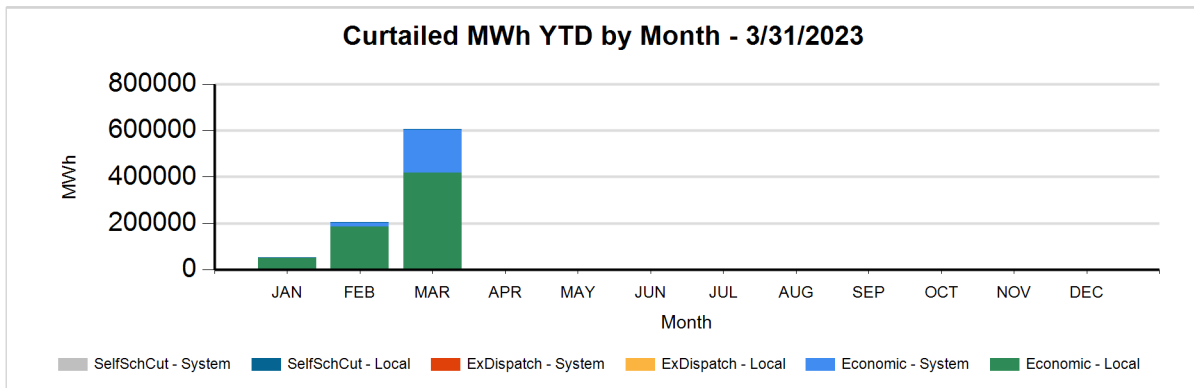
The following charts show the daily and 7-day wind and solar curtailment by category, if any.



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 - 3/31/2023
LocalEconomic	652,191
LocalSelfSchCut	12
SystemEconomic	211,142
TOTAL	863,345

Data used to produce hourly chart

DATE	HOUR	CURT TYPE	REASON	FUEL TYPE	CURTAILED MWH	CURTAILED MW
03/31	8	Economic	Local	SOLR	147	656
03/31	9	Economic	Local	SOLR	1367	3097
03/31	9	Economic	Local	WIND	9	12
03/31	10	Economic	Local	SOLR	3962	4794
03/31	10	Economic	Local	WIND	30	106
03/31	11	Economic	Local	SOLR	5196	5940
03/31	11	Economic	Local	WIND	57	114
03/31	12	Economic	Local	SOLR	6406	6658
03/31	12	Economic	Local	WIND	114	118
03/31	13	Economic	Local	SOLR	6426	6620
03/31	13	Economic	Local	WIND	90	91
03/31	14	Economic	Local	SOLR	6217	6551
03/31	14	Economic	Local	WIND	75	75
03/31	15	Economic	Local	SOLR	6603	7279
03/31	15	Economic	Local	WIND	76	58
03/31	16	Economic	Local	SOLR	5757	6265
03/31	16	Economic	Local	WIND	87	93
03/31	17	Economic	Local	SOLR	4716	6265
03/31	17	Economic	Local	WIND	72	106
03/31	18	Economic	Local	SOLR	613	1956
03/31	18	Economic	Local	WIND	18	31
03/31	19	Economic	Local	SOLR	3	21

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.

