

Wind and Solar Curtailment March 24, 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.

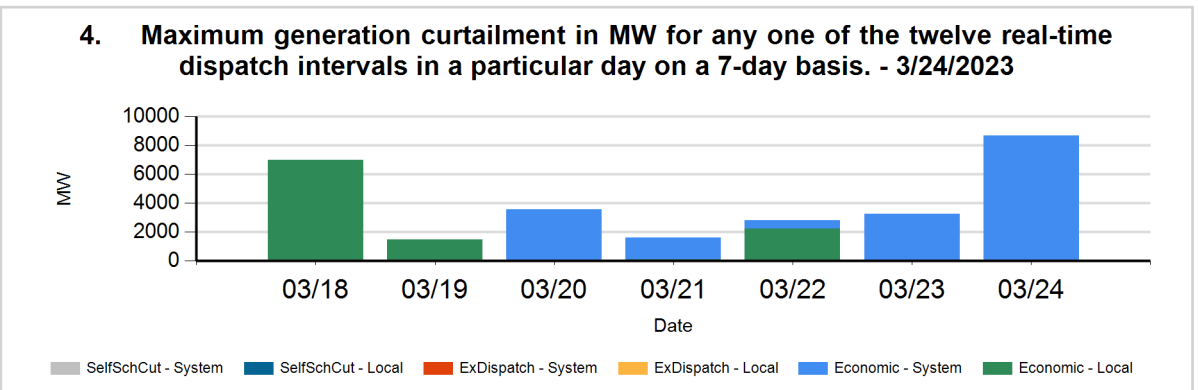
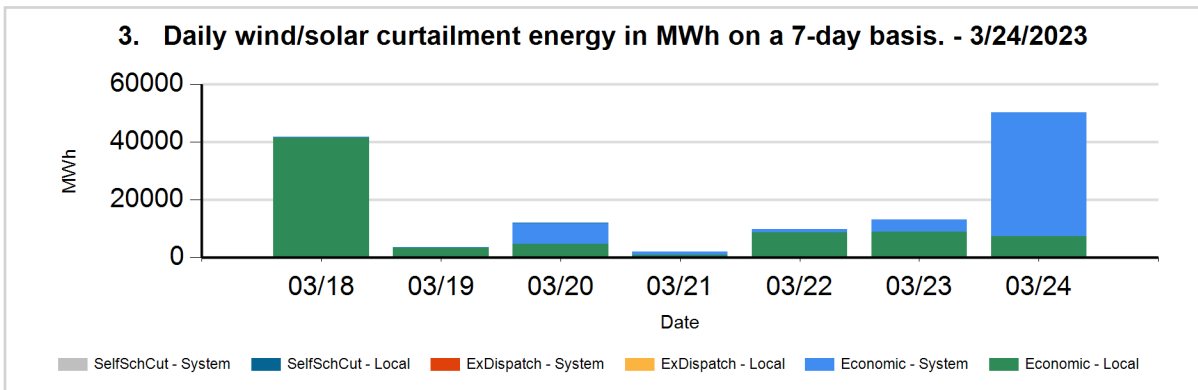
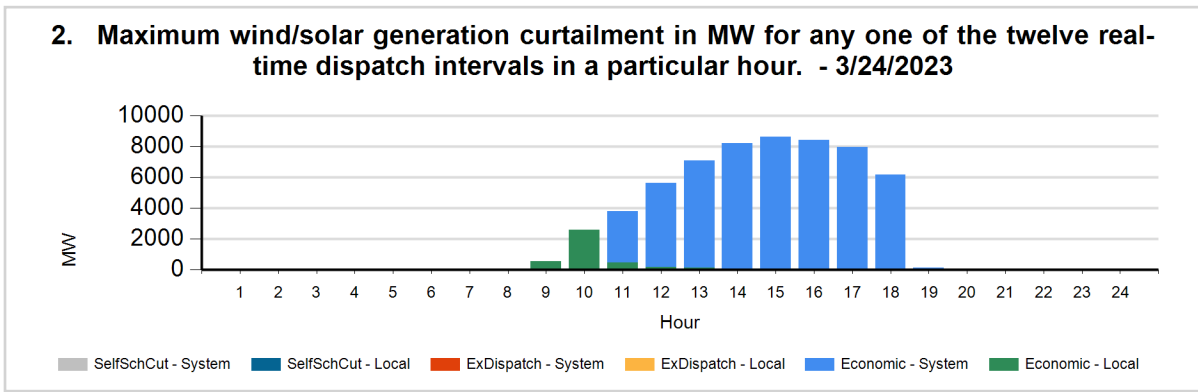
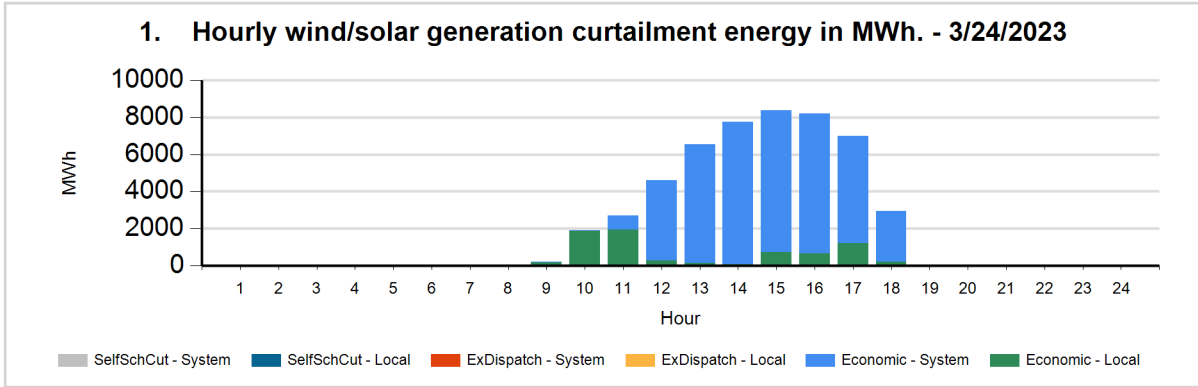
¹Only wind and solar resources can be reported in this manner because these resources have a forecast. Curtailment is defined as the difference between actual production and the forecast when actual production is less than the forecast.

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

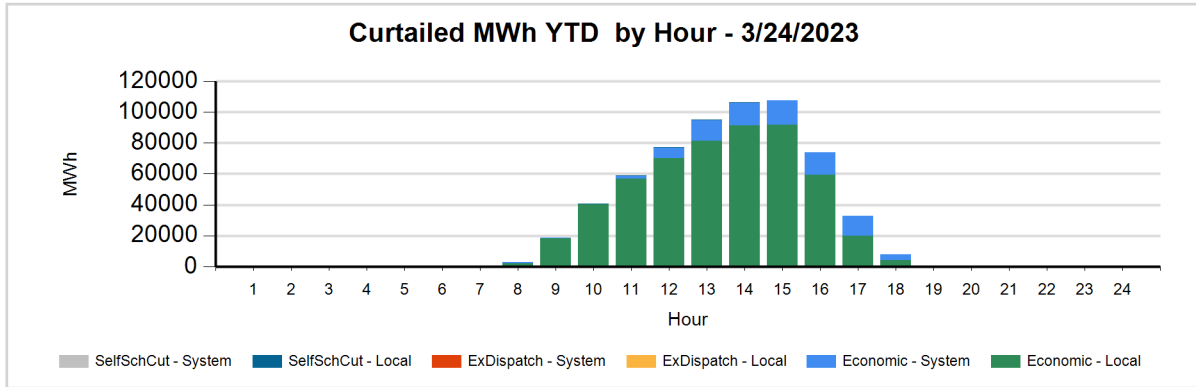
³Congestion occurs when available, least-cost energy cannot be delivered to some loads because transmission facilities do not have sufficient capacity to deliver the energy.

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

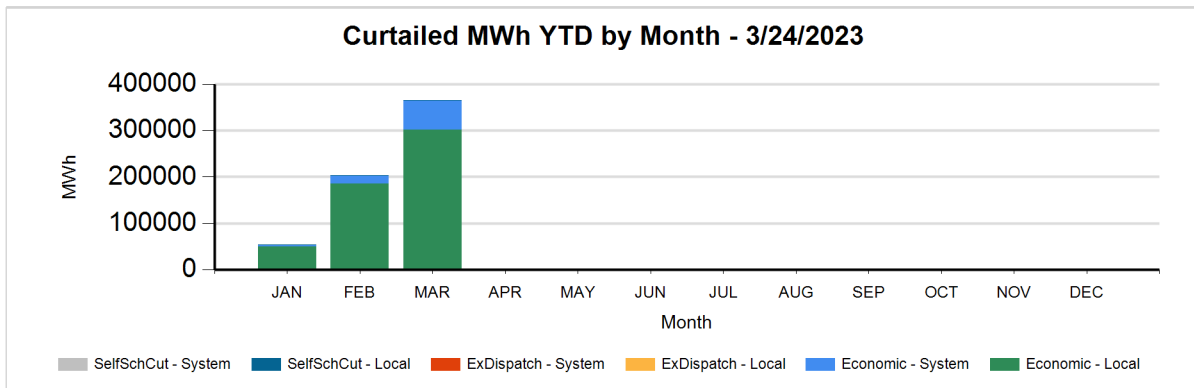
The following charts show the daily and 7-day wind and solar curtailment by category, if any.



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 - 3/24/2023
LocalEconomic	535,856
LocalSelfSchCut	12
SystemEconomic	87,348
TOTAL	623,216

Data used to produce hourly chart

DATE	HOUR	CURT TYPE	REASON	FUEL TYPE	CURTAILED MWH	CURTAILED MW
03/24	8	Economic	System	SOLR	11	36
03/24	9	Economic	Local	SOLR	96	249
03/24	9	Economic	Local	WIND	114	303
03/24	9	Economic	System	SOLR	9	
03/24	10	Economic	Local	SOLR	1593	2300
03/24	10	Economic	Local	WIND	312	297
03/24	10	Economic	System	SOLR	11	
03/24	11	Economic	Local	SOLR	1695	443
03/24	11	Economic	Local	WIND	250	
03/24	11	Economic	System	SOLR	686	2898
03/24	11	Economic	System	WIND	81	465
03/24	12	Economic	Local	SOLR	263	161
03/24	12	Economic	System	SOLR	3805	4921
03/24	12	Economic	System	WIND	527	551
03/24	13	Economic	Local	SOLR	121	103
03/24	13	Economic	System	SOLR	5766	6258
03/24	13	Economic	System	WIND	662	729
03/24	14	Economic	Local	SOLR	61	15
03/24	14	Economic	System	SOLR	6929	7439
03/24	14	Economic	System	WIND	764	767
03/24	15	Economic	Local	SOLR	636	
03/24	15	Economic	Local	WIND	74	
03/24	15	Economic	System	SOLR	6894	7672
03/24	15	Economic	System	WIND	774	975
03/24	16	Economic	Local	SOLR	596	
03/24	16	Economic	Local	WIND	71	
03/24	16	Economic	System	SOLR	6705	7547
03/24	16	Economic	System	WIND	811	881
03/24	17	Economic	Local	SOLR	1057	
03/24	17	Economic	Local	WIND	136	
03/24	17	Economic	System	SOLR	5093	7095

03/24	17	Economic	System	WIND	695	858
03/24	18	Economic	Local	SOLR	167	43
03/24	18	Economic	Local	WIND	34	
03/24	18	Economic	System	SOLR	2304	5335
03/24	18	Economic	System	WIND	448	797
03/24	19	Economic	Local	SOLR	0	
03/24	19	Economic	Local	WIND	9	
03/24	19	Economic	System	WIND	10	116

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.