

Wind and Solar Curtailment March 15, 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.

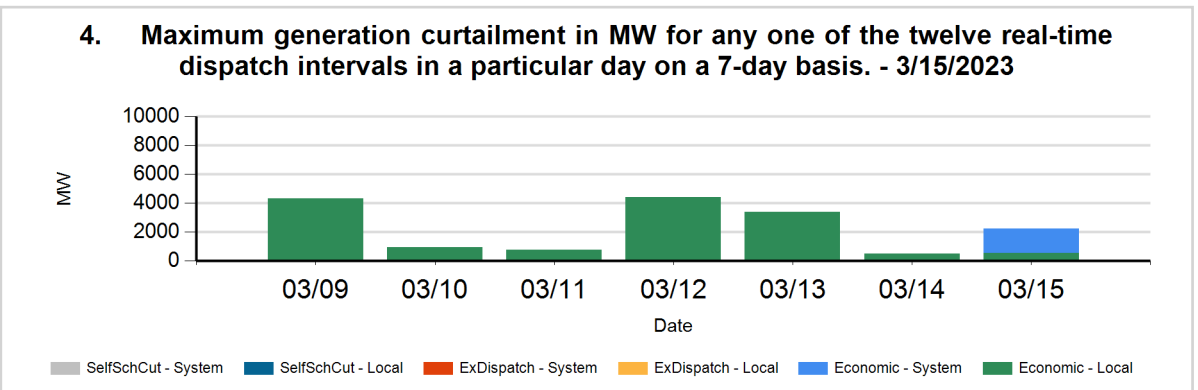
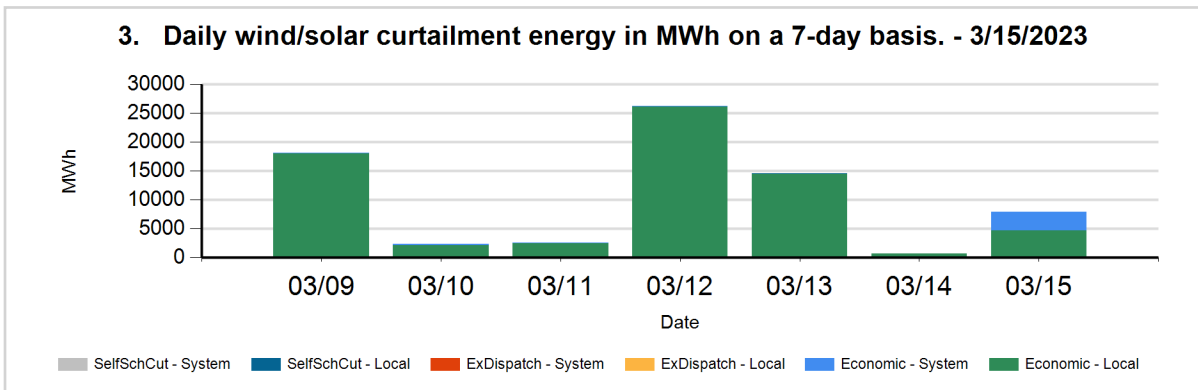
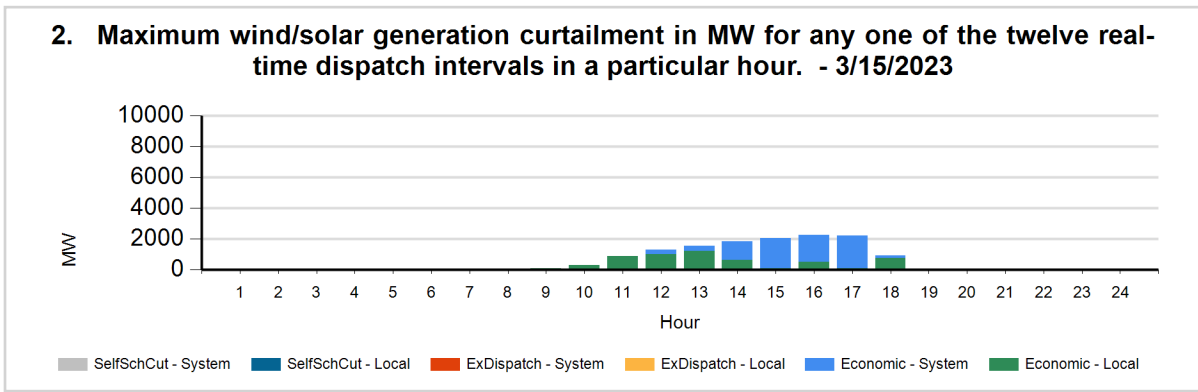
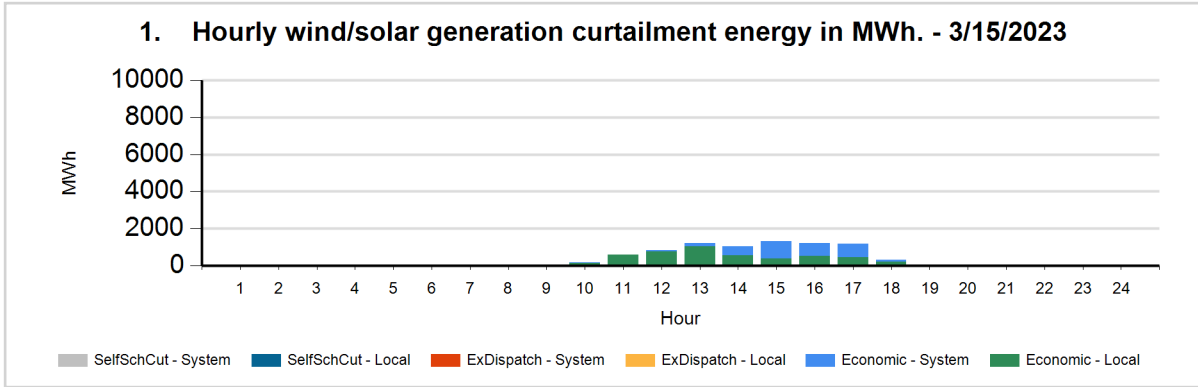
¹Only wind and solar resources can be reported in this manner because these resources have a forecast. Curtailment is defined as the difference between actual production and the forecast when actual production is less than the forecast.

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

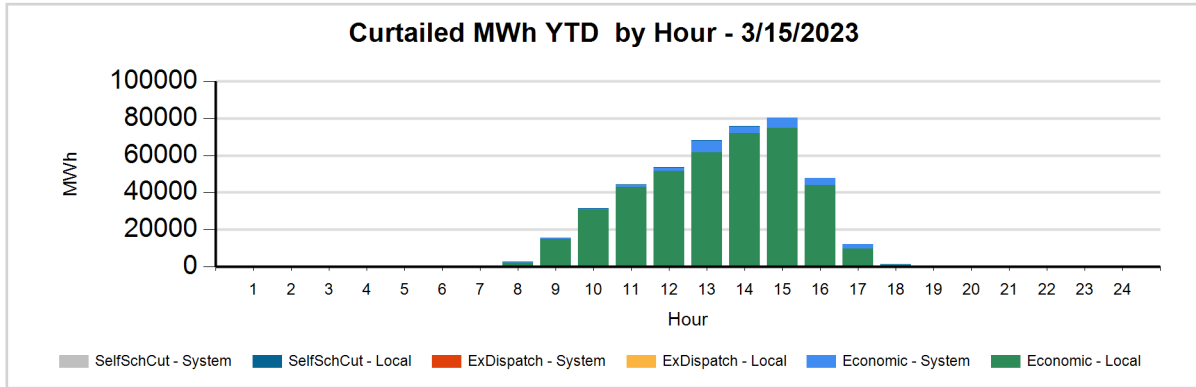
³Congestion occurs when available, least-cost energy cannot be delivered to some loads because transmission facilities do not have sufficient capacity to deliver the energy.

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

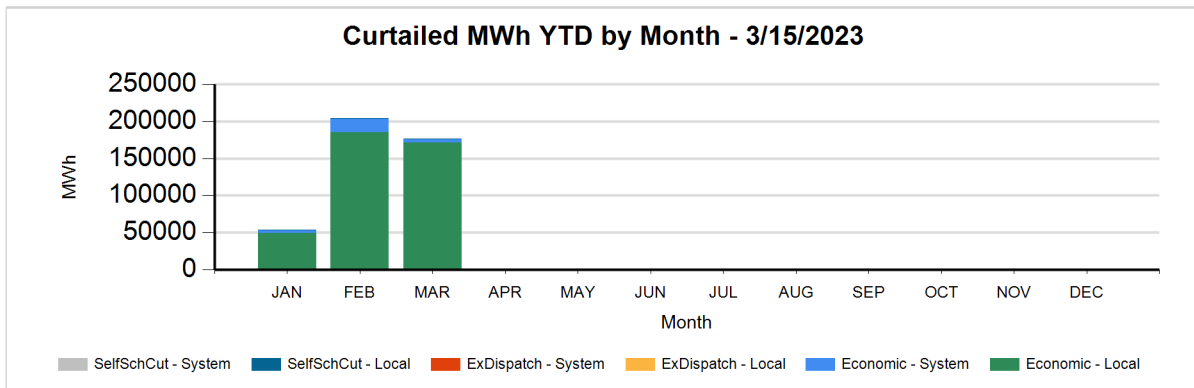
The following charts show the daily and 7-day wind and solar curtailment by category, if any.



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 - 3/15/2023
LocalEconomic	405,486
LocalSelfSchCut	10
SystemEconomic	27,919
TOTAL	433,415

Data used to produce hourly chart

DATE	HOUR	CURT TYPE	REASON	FUEL TYPE	CURTAILED MWH	CURTAILED MW
03/15	8	Economic	Local	SOLR	1	18
03/15	9	Economic	Local	SOLR	29	81
03/15	9	Economic	System	SOLR	0	
03/15	10	Economic	Local	SOLR	162	296
03/15	10	Economic	System	SOLR	1	
03/15	11	Economic	Local	SOLR	572	858
03/15	12	Economic	Local	SOLR	756	1001
03/15	12	Economic	Local	WIND	7	
03/15	12	Economic	System	SOLR	39	200
03/15	12	Economic	System	WIND	41	84
03/15	13	Economic	Local	SOLR	1043	1216
03/15	13	Economic	System	SOLR	50	85
03/15	13	Economic	System	WIND	128	234
03/15	14	Economic	Local	SOLR	531	610
03/15	14	Economic	Local	WIND	17	
03/15	14	Economic	System	SOLR	257	919
03/15	14	Economic	System	WIND	221	306
03/15	15	Economic	Local	SOLR	340	75
03/15	15	Economic	Local	WIND	29	
03/15	15	Economic	System	SOLR	708	1746
03/15	15	Economic	System	WIND	221	236
03/15	16	Economic	Local	SOLR	465	515
03/15	16	Economic	Local	WIND	40	
03/15	16	Economic	System	SOLR	525	1483
03/15	16	Economic	System	WIND	191	231
03/15	17	Economic	Local	SOLR	382	82
03/15	17	Economic	Local	WIND	61	
03/15	17	Economic	System	SOLR	498	1700
03/15	17	Economic	System	WIND	246	411
03/15	18	Economic	Local	SOLR	155	562
03/15	18	Economic	Local	WIND	55	199

03/15	18	Economic	System	SOLR	30	55
03/15	18	Economic	System	WIND	63	117
03/15	19	Economic	Local	SOLR	2	9

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.