

## Wind and Solar Curtailment March 17, 2023

This report is produced daily to provide a detailed accounting of the wind and solar renewable generation that was curtailed and the reasons why<sup>1</sup>. This report should be read in the context of the Renewables Watch report for a more complete understanding of both renewable curtailment and generation<sup>2</sup>.

Wind and solar curtailments are grouped into the following categories:

1. Economic - Local: Market dispatch of generators with economic bids to mitigate local congestion<sup>3</sup>.
2. Economic - System: Market dispatch of generators with economic bids to mitigate system-wide oversupply<sup>4</sup>.
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.

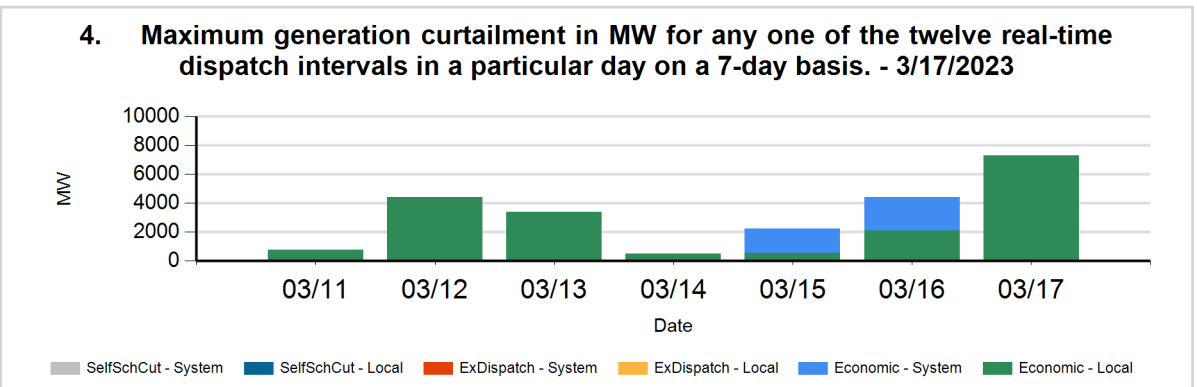
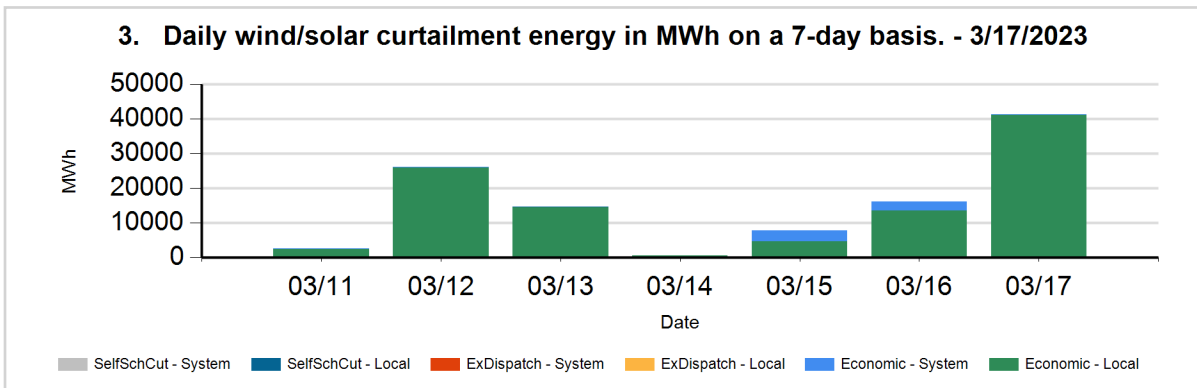
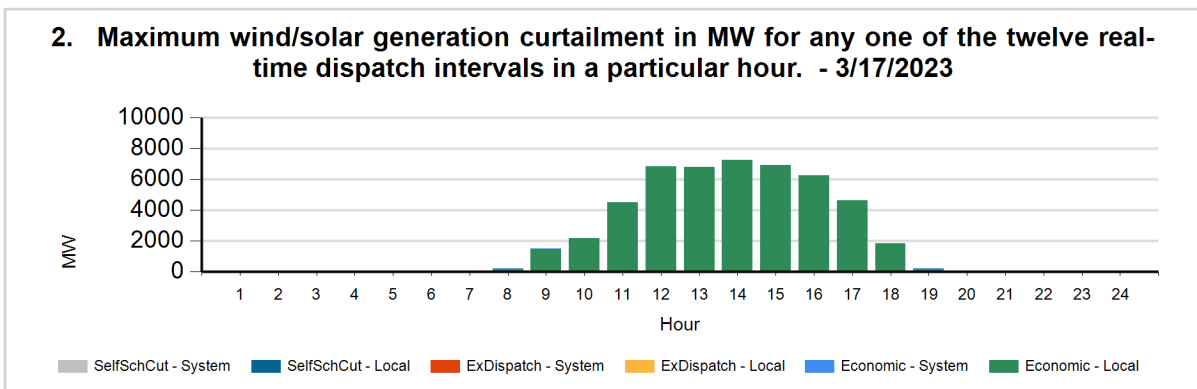
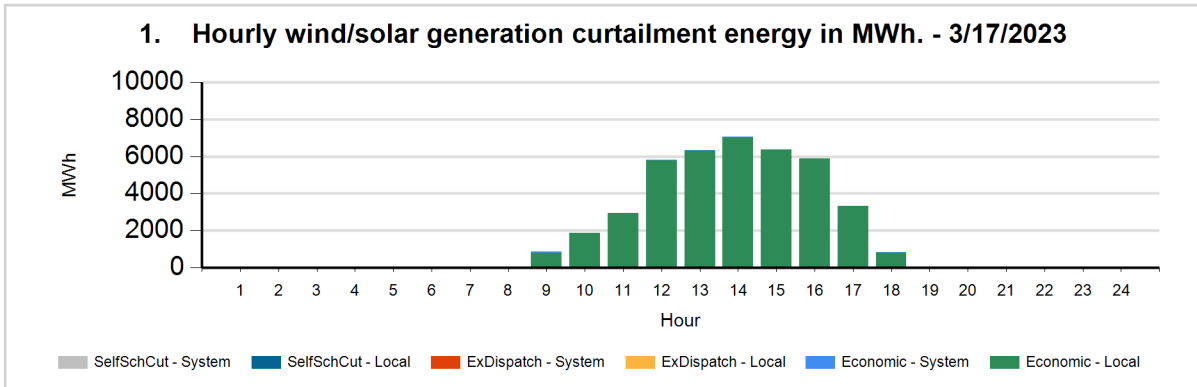
<sup>1</sup>Only wind and solar resources can be reported in this manner because these resources have a forecast. Curtailment is defined as the difference between actual production and the forecast when actual production is less than the forecast.

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

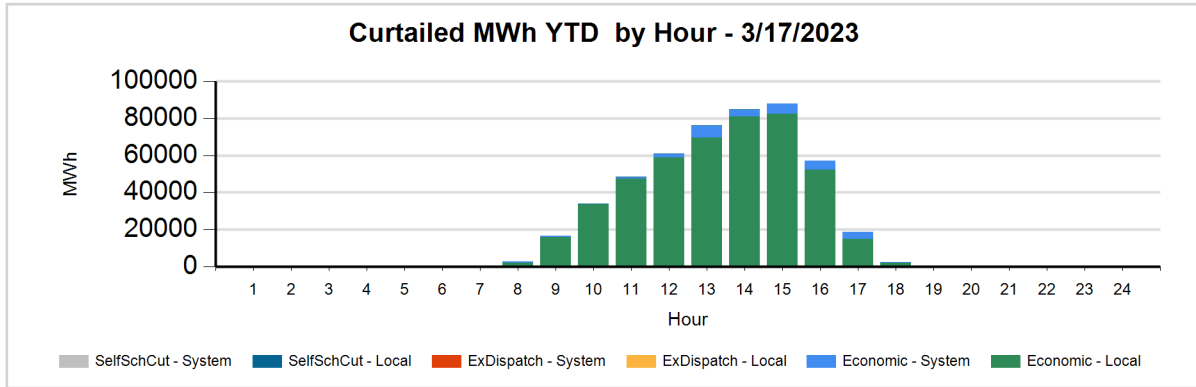
<sup>3</sup>Congestion occurs when available, least-cost energy cannot be delivered to some loads because transmission facilities do not have sufficient capacity to deliver the energy.

<sup>4</sup>For more information on oversupply conditions, please see: [https://www.caiso.com/Documents/FlexibleResourcesHelpRenewables\\_FastFacts.pdf](https://www.caiso.com/Documents/FlexibleResourcesHelpRenewables_FastFacts.pdf)

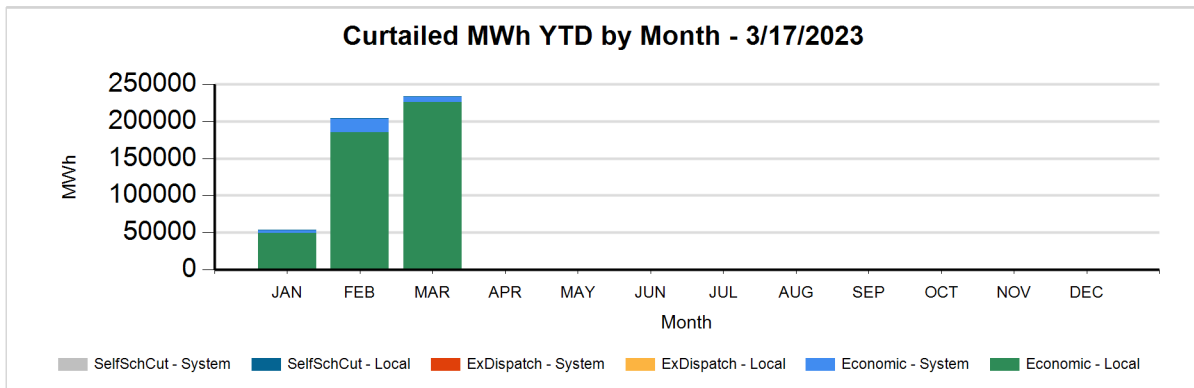
The following charts show the daily and 7-day wind and solar curtailment by category, if any.



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 - 3/17/2023
LocalEconomic	460,124
LocalSelfSchCut	10
SystemEconomic	30,654
<b>TOTAL</b>	<b>490,788</b>

**Data used to produce hourly chart**

DATE	HOUR	CURT TYPE	REASON	FUEL TYPE	CURTAILED MWH	CURTAILED MW
03/17	8	Economic	Local	SOLR	29	185
03/17	8	Economic	System	SOLR	1	1
03/17	9	Economic	Local	SOLR	801	1500
03/17	9	Economic	System	SOLR	47	9
03/17	9	Economic	System	WIND	0	1
03/17	10	Economic	Local	SOLR	1840	2148
03/17	10	Economic	Local	WIND	21	37
03/17	11	Economic	Local	SOLR	2873	4401
03/17	11	Economic	Local	WIND	63	91
03/17	12	Economic	Local	SOLR	5666	6707
03/17	12	Economic	Local	WIND	128	134
03/17	12	Economic	System	SOLR	5	
03/17	13	Economic	Local	SOLR	6192	6587
03/17	13	Economic	Local	WIND	154	208
03/17	13	Economic	System	SOLR	1	
03/17	14	Economic	Local	SOLR	6833	7034
03/17	14	Economic	Local	WIND	224	239
03/17	14	Economic	System	SOLR	5	
03/17	14	Economic	System	WIND	2	
03/17	15	Economic	Local	SOLR	6220	6686
03/17	15	Economic	Local	WIND	143	216
03/17	16	Economic	Local	SOLR	5752	6149
03/17	16	Economic	Local	WIND	119	128
03/17	17	Economic	Local	SOLR	3256	4518
03/17	17	Economic	Local	WIND	67	93
03/17	18	Economic	Local	SOLR	803	1811
03/17	18	Economic	Local	WIND	6	37
03/17	18	Economic	System	SOLR	5	
03/17	18	Economic	System	WIND	16	
03/17	19	Economic	Local	SOLR	17	167
03/17	19	Economic	System	SOLR	0	2

03/17	19	Economic	System	WIND	14	35
03/17	20	Economic	System	WIND	3	18
03/17	24	Economic	System	WIND	1	5

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](mailto:ShortTermForecasting@caiso.com).