

## Wind and Solar Curtailment March 13, 2021

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.

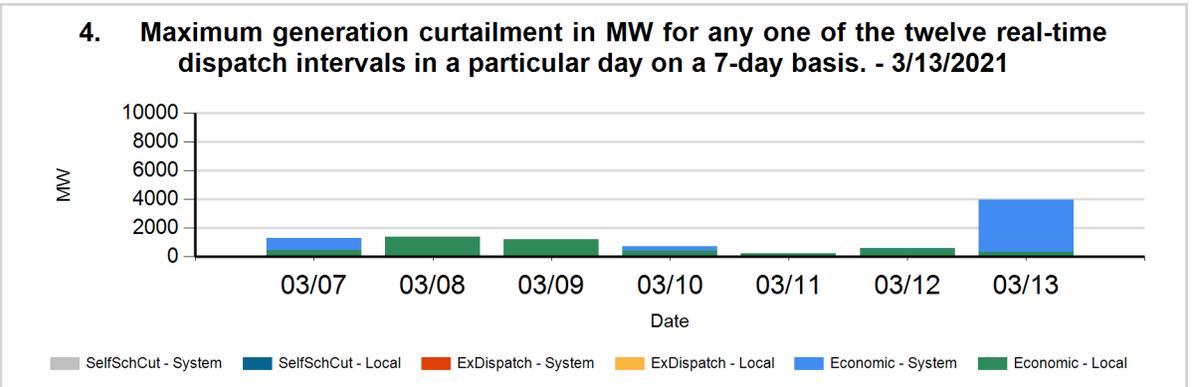
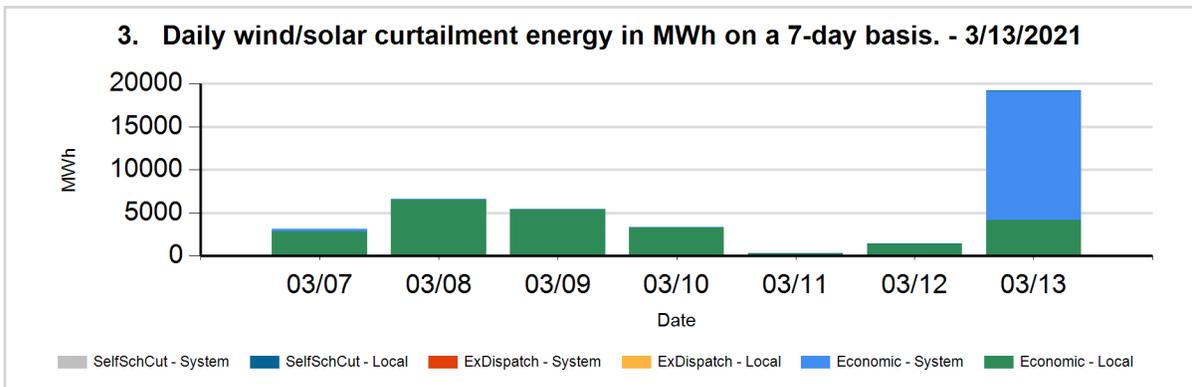
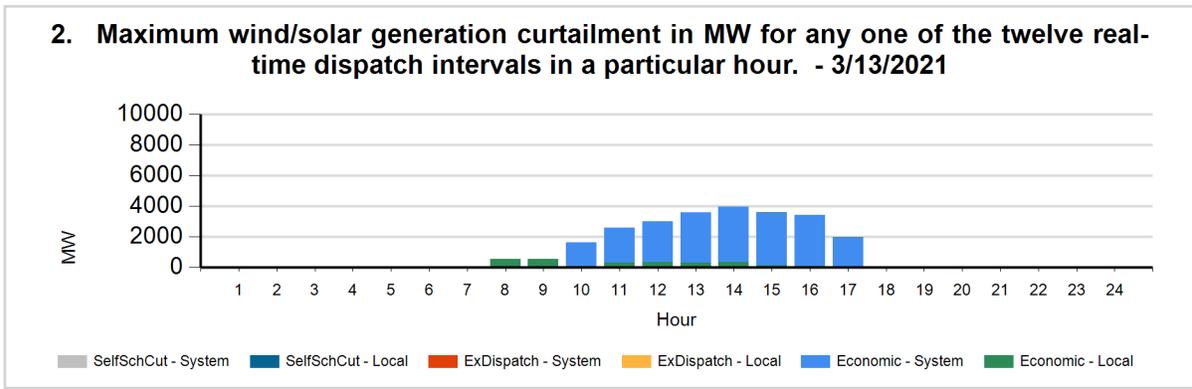
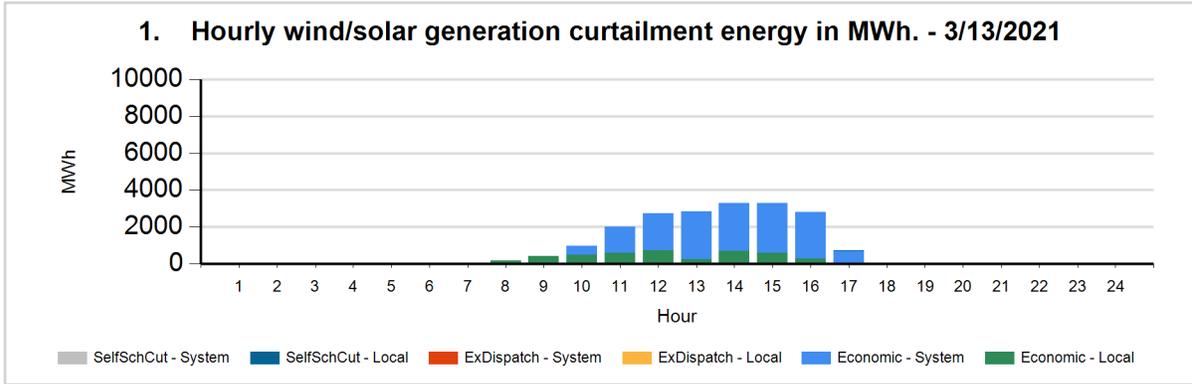
<sup>1</sup>Only wind and solar resources can be reported in this manner because these resources have a forecast. Curtailment is defined as the difference between actual production and the forecast when actual production is less than the forecast.

<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>.

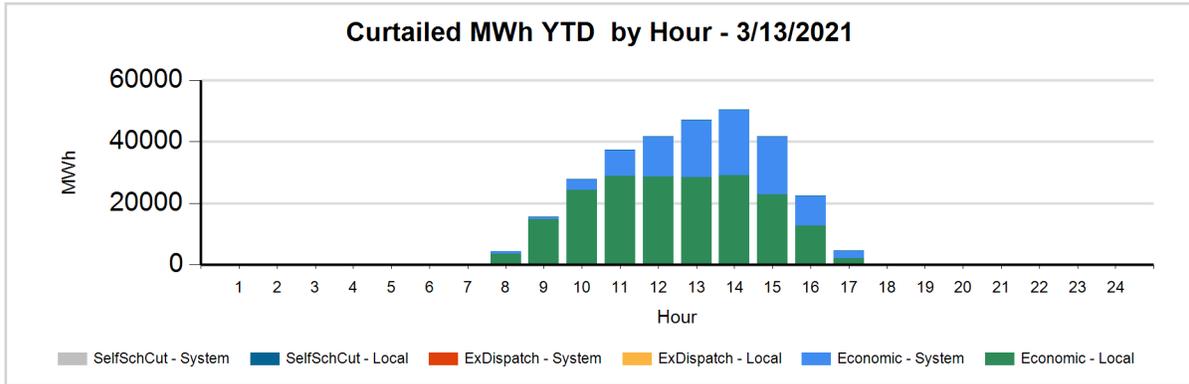
<sup>3</sup>Congestion occurs when available, least-cost energy cannot be delivered to some loads because transmission facilities do not have sufficient capacity to deliver the energy.

<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)

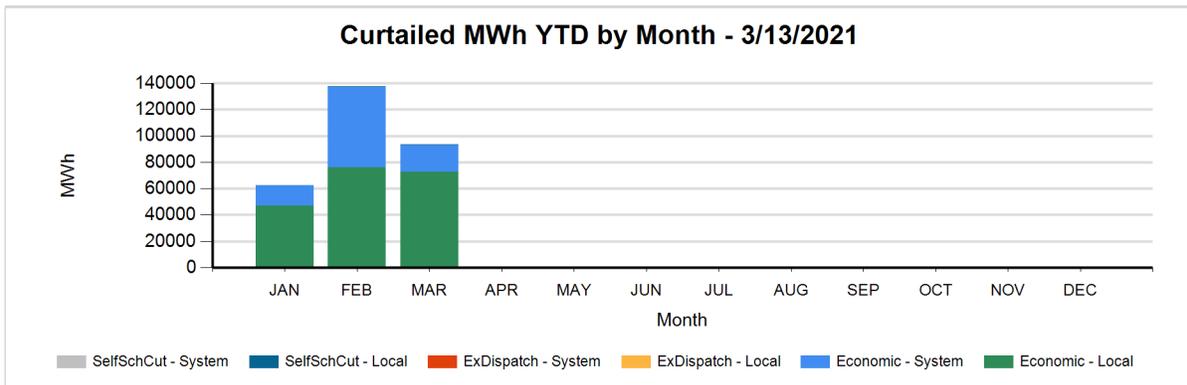
The following charts show the daily and 7-day wind and solar curtailment by category, if any.



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 - 3/13/2021
LocalEconomic	195,522
LocalSelfSchCut	566
SystemEconomic	97,284
TOTAL	293,372

**Data used to produce hourly chart**

DATE	HOUR	CURT TYPE	REASON	FUEL TYPE	CURTAILED MWH	CURTAILED MW
03/13	7	Economic	Local	WIND	2	25
03/13	8	Economic	Local	SOLR	131	527
03/13	8	Economic	Local	WIND	32	8
03/13	9	Economic	Local	SOLR	368	474
03/13	9	Economic	Local	WIND	46	54
03/13	10	Economic	Local	SOLR	427	97
03/13	10	Economic	Local	WIND	46	
03/13	10	Economic	System	SOLR	463	1412
03/13	10	Economic	System	WIND	35	105
03/13	11	Economic	Local	SOLR	561	267
03/13	11	Economic	Local	WIND	27	
03/13	11	Economic	System	SOLR	1331	2216
03/13	11	Economic	System	WIND	77	104
03/13	12	Economic	Local	SOLR	694	314
03/13	12	Economic	Local	WIND	17	
03/13	12	Economic	System	SOLR	1924	2586
03/13	12	Economic	System	WIND	86	104
03/13	13	Economic	Local	SOLR	253	304
03/13	13	Economic	System	SOLR	2441	2934
03/13	13	Economic	System	WIND	144	357
03/13	14	Economic	Local	SOLR	664	312
03/13	14	Economic	Local	WIND	17	
03/13	14	Economic	System	SOLR	2401	3162
03/13	14	Economic	System	WIND	217	485
03/13	15	Economic	Local	SOLR	539	101
03/13	15	Economic	Local	WIND	36	
03/13	15	Economic	System	SOLR	2457	3057
03/13	15	Economic	System	WIND	246	428
03/13	15	SelfSchCut	Local	SOLR	0	1
03/13	16	Economic	Local	SOLR	275	83
03/13	16	Economic	Local	WIND	9	

03/13	16	Economic	System	SOLR	2354	2923
03/13	16	Economic	System	WIND	148	404
03/13	17	Economic	Local	SOLR	40	25
03/13	17	Economic	System	SOLR	664	1852
03/13	17	Economic	System	WIND	27	50
03/13	17	SelfSchCut	Local	SOLR	10	21
03/13	18	Economic	Local	SOLR	0	4

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).