

## Wind and Solar Curtailment March 29, 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.

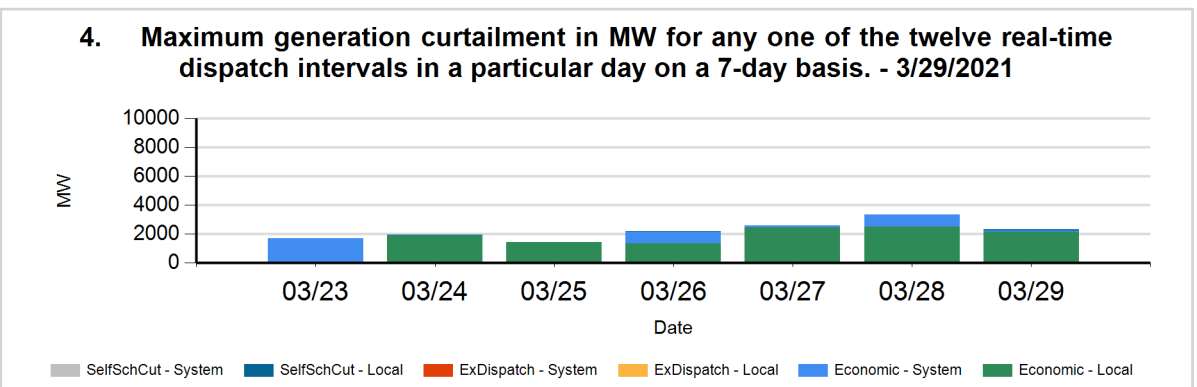
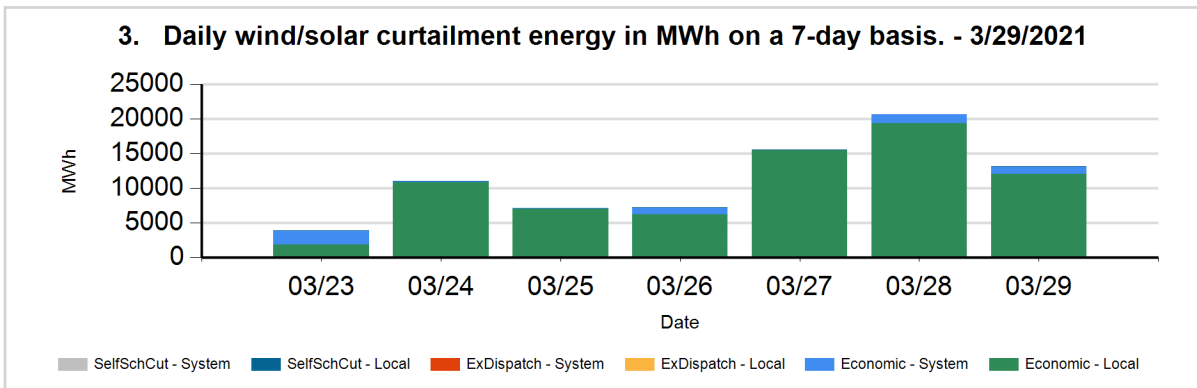
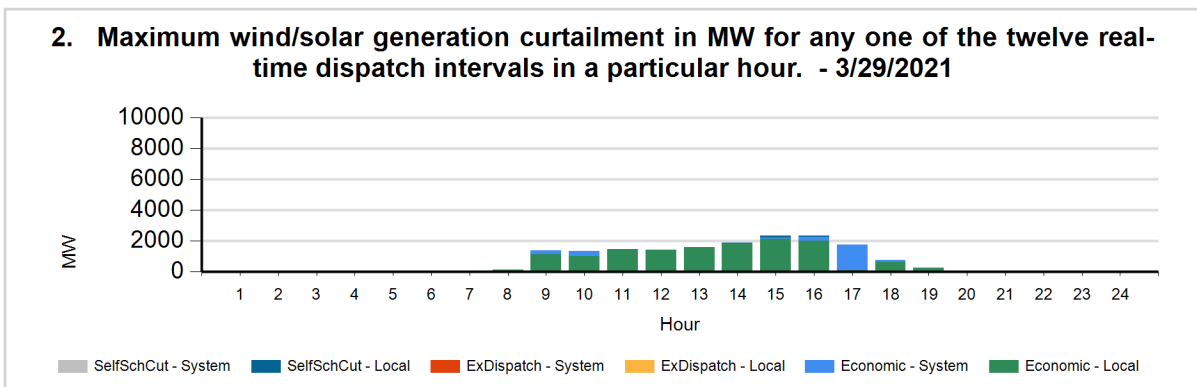
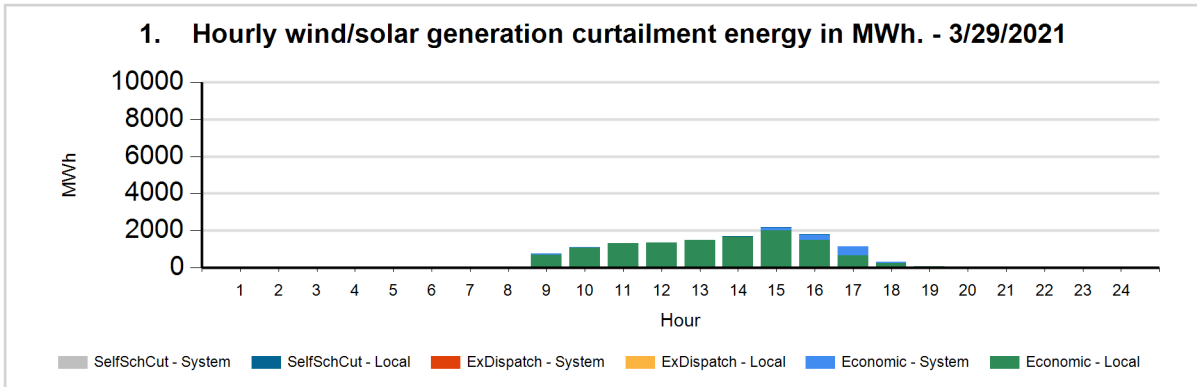
<sup>1</sup>Only wind and solar resources can be reported in this manner because these resources have a forecast. Curtailment is defined as the difference between actual production and the forecast when actual production is less than the forecast.

<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>.

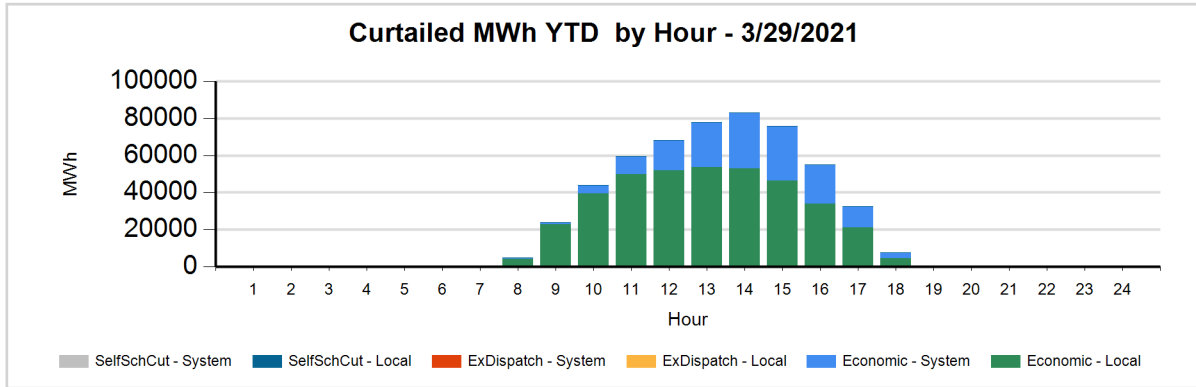
<sup>3</sup>Congestion occurs when available, least-cost energy cannot be delivered to some loads because transmission facilities do not have sufficient capacity to deliver the energy.

<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)

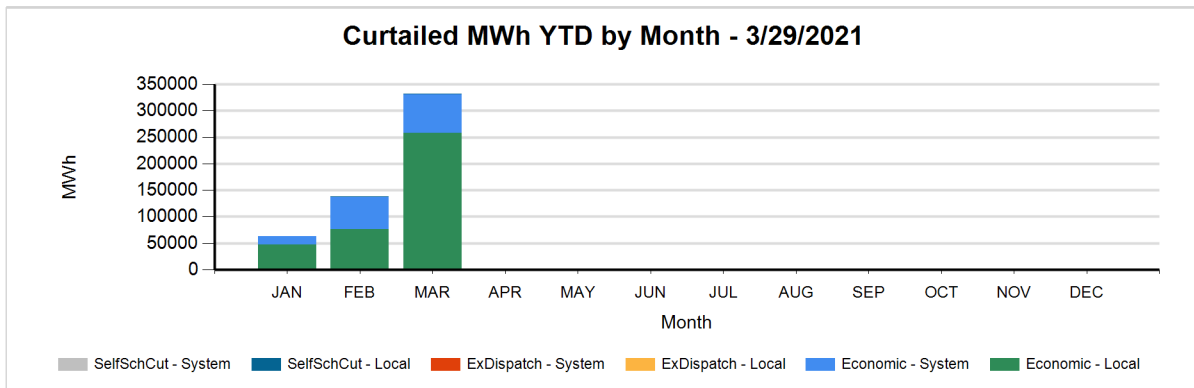
The following charts show the daily and 7-day wind and solar curtailment by category, if any.



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 - 3/29/2021
LocalEconomic	381,041
LocalSelfSchCut	1,693
SystemEconomic	149,565
<b>TOTAL</b>	<b>532,299</b>

**Data used to produce hourly chart**

DATE	HOUR	CURT TYPE	REASON	FUEL TYPE	CURTAILED MWH	CURTAILED MW
03/29	8	Economic	Local	SOLR	31	114
03/29	9	Economic	Local	SOLR	672	1115
03/29	9	Economic	Local	WIND	12	13
03/29	9	Economic	System	SOLR	60	212
03/29	9	Economic	System	WIND	8	35
03/29	10	Economic	Local	SOLR	1078	979
03/29	10	Economic	Local	WIND	1	13
03/29	10	Economic	System	SOLR	31	318
03/29	10	Economic	System	WIND	5	35
03/29	11	Economic	Local	SOLR	1314	1452
03/29	12	Economic	Local	SOLR	1331	1426
03/29	12	Economic	Local	WIND	1	
03/29	13	Economic	Local	SOLR	1469	1588
03/29	13	Economic	Local	WIND	6	7
03/29	14	Economic	Local	SOLR	1653	1809
03/29	14	Economic	Local	WIND	22	31
03/29	14	SelfSchCut	Local	WIND	13	22
03/29	15	Economic	Local	SOLR	1939	2018
03/29	15	Economic	Local	WIND	63	89
03/29	15	Economic	System	SOLR	20	
03/29	15	Economic	System	WIND	120	117
03/29	15	SelfSchCut	Local	SOLR	0	
03/29	15	SelfSchCut	Local	WIND	45	98
03/29	16	Economic	Local	SOLR	1389	1881
03/29	16	Economic	Local	WIND	98	102
03/29	16	Economic	System	SOLR	176	129
03/29	16	Economic	System	WIND	121	116
03/29	16	SelfSchCut	Local	SOLR	0	3
03/29	16	SelfSchCut	Local	WIND	14	90
03/29	17	Economic	Local	SOLR	568	61
03/29	17	Economic	Local	WIND	103	

03/29	17	Economic	System	SOLR	327	1448
03/29	17	Economic	System	WIND	143	243
03/29	18	Economic	Local	SOLR	207	528
03/29	18	Economic	Local	WIND	44	113
03/29	18	Economic	System	SOLR	7	
03/29	18	Economic	System	WIND	41	119
03/29	19	Economic	Local	SOLR	48	244
03/29	19	Economic	Local	WIND	3	20

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).