

## Wind and Solar Curtailment March 15, 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.

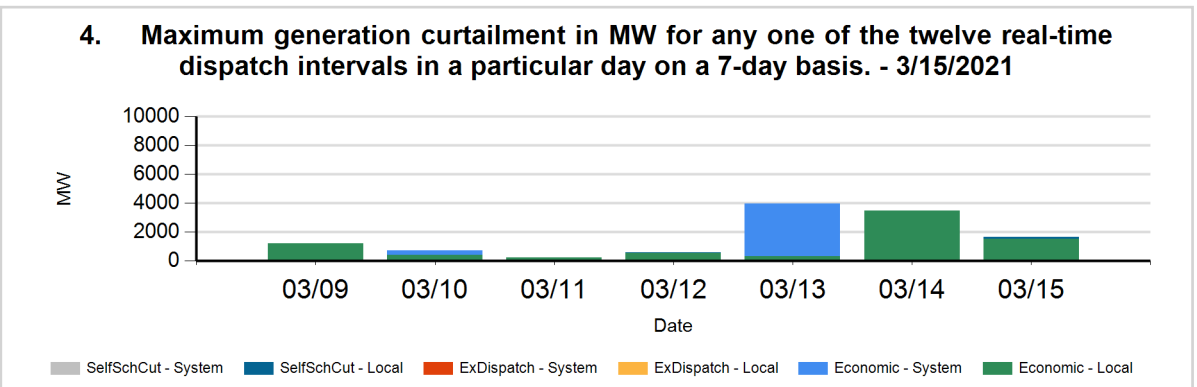
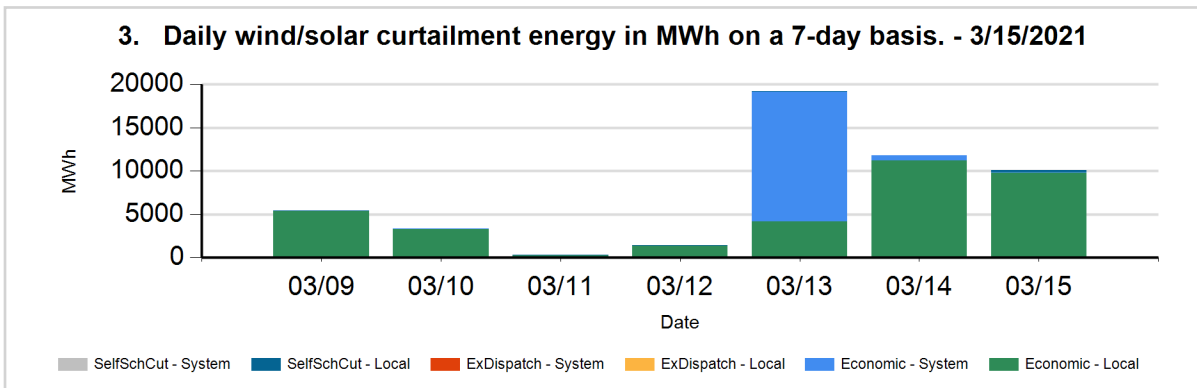
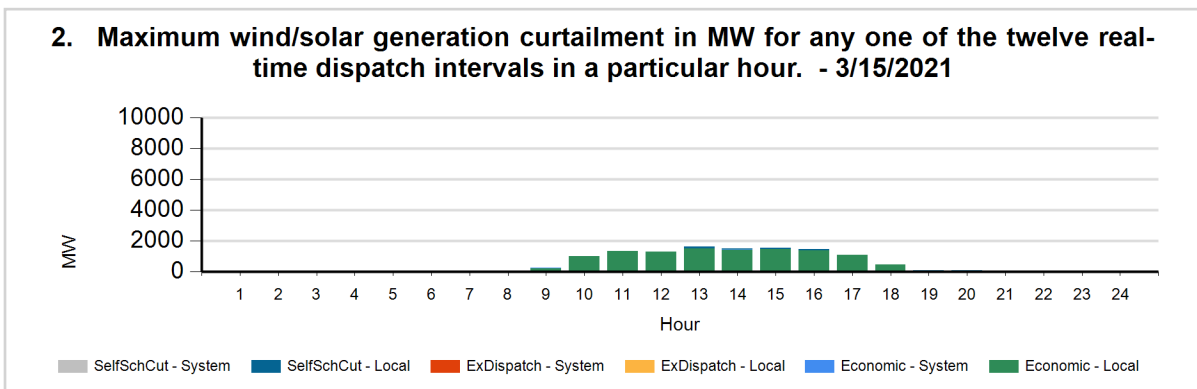
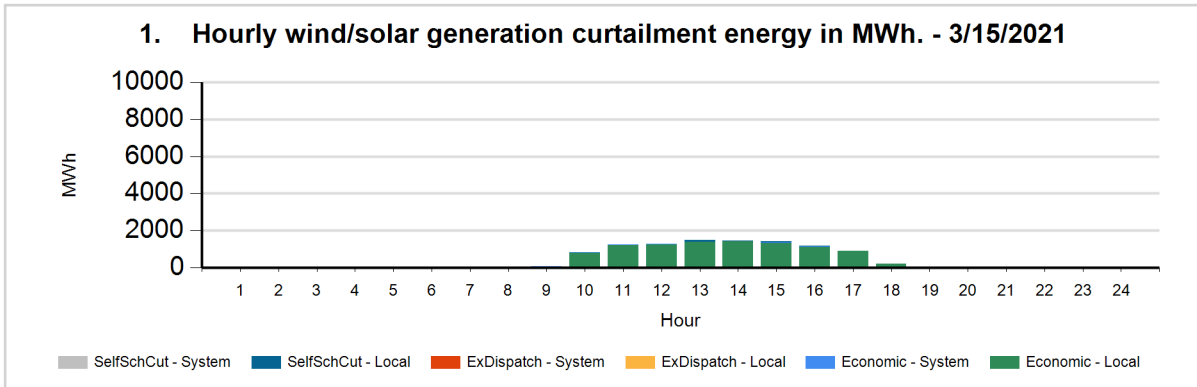
<sup>2</sup>The Renewables Watch report provides daily actual renewable production within the ISO grid. It is available at: <http://www.caiso.com/green/renewableswatch.html>.

<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.

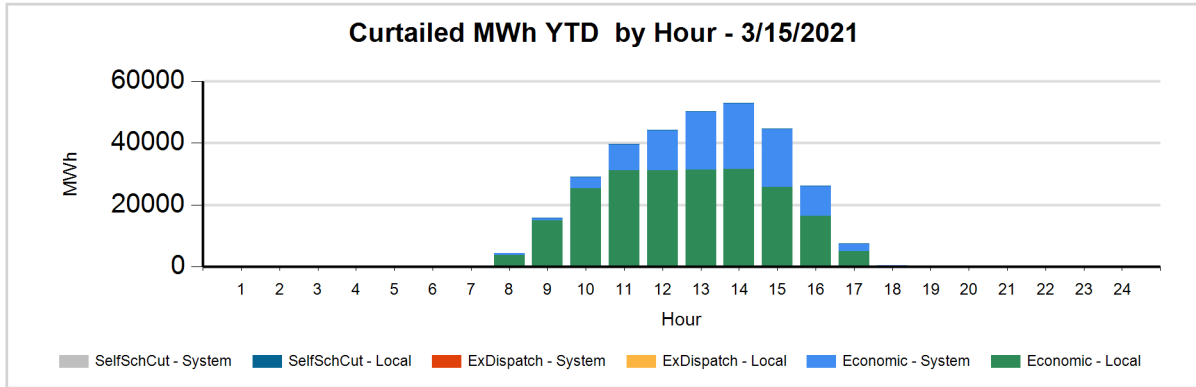
<sup>4</sup>For more information on oversupply conditions, please see:

[https://www.caiso.com/Documents/FlexibleResourcesHelpRenewables\\_FastFacts.pdf](https://www.caiso.com/Documents/FlexibleResourcesHelpRenewables_FastFacts.pdf)

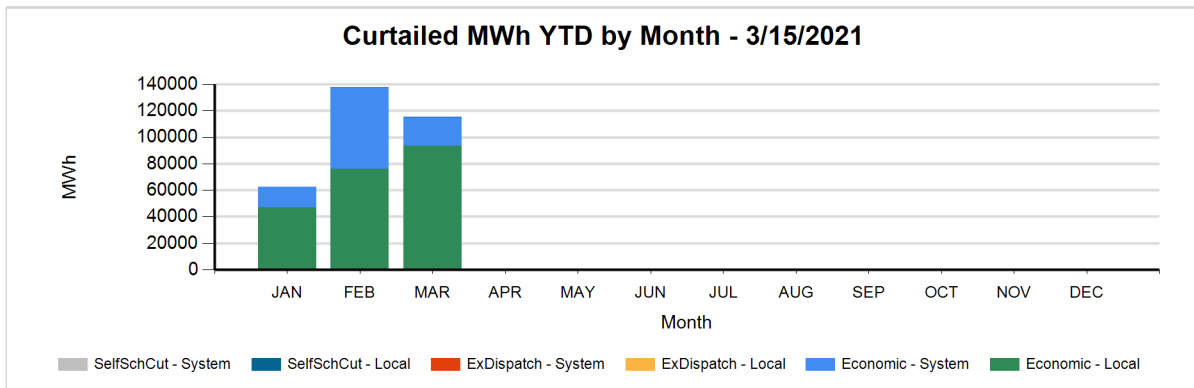
The following charts show the daily and 7-day wind and solar curtailment by category, if any.



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 - 3/15/2021
LocalEconomic	216,557
LocalSelfSchCut	793
SystemEconomic	97,849
<b>TOTAL</b>	<b>315,199</b>

**Data used to produce hourly chart**

DATE	HOUR	CURT TYPE	REASON	FUEL TYPE	CURTAILED MWH	CURTAILED MW
03/15	8	Economic	Local	SOLR	2	10
03/15	9	Economic	Local	SOLR	58	231
03/15	9	Economic	Local	WIND	5	6
03/15	9	Economic	System	SOLR	3	2
03/15	10	Economic	Local	SOLR	757	938
03/15	10	Economic	Local	WIND	66	66
03/15	10	Economic	System	SOLR	0	
03/15	10	Economic	System	WIND	2	
03/15	11	Economic	Local	SOLR	1167	1260
03/15	11	Economic	Local	WIND	62	54
03/15	11	Economic	System	SOLR	1	
03/15	12	Economic	Local	SOLR	1221	1249
03/15	12	Economic	Local	WIND	45	47
03/15	12	Economic	System	SOLR	1	
03/15	13	Economic	Local	SOLR	1315	1424
03/15	13	Economic	Local	WIND	62	65
03/15	13	SelfSchCut	Local	WIND	93	138
03/15	14	Economic	Local	SOLR	1394	1407
03/15	14	Economic	Local	WIND	64	55
03/15	14	Economic	System	SOLR	0	5
03/15	14	SelfSchCut	Local	WIND	8	40
03/15	15	Economic	Local	SOLR	1279	1388
03/15	15	Economic	Local	WIND	66	68
03/15	15	Economic	System	SOLR	1	
03/15	15	SelfSchCut	Local	WIND	53	65
03/15	16	Economic	Local	SOLR	1085	1325
03/15	16	Economic	Local	WIND	64	64
03/15	16	Economic	System	SOLR	4	
03/15	16	SelfSchCut	Local	WIND	18	57
03/15	17	Economic	Local	SOLR	848	1032
03/15	17	Economic	Local	WIND	64	66

03/15	18	Economic	Local	SOLR	177	425
03/15	18	Economic	Local	WIND	11	24
03/15	19	Economic	Local	WIND	4	9
03/15	19	SelfSchCut	Local	WIND	37	87
03/15	20	Economic	Local	WIND	4	9
03/15	20	SelfSchCut	Local	WIND	18	52

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).