

## Wind and Solar Curtailment March 08, 2020

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.

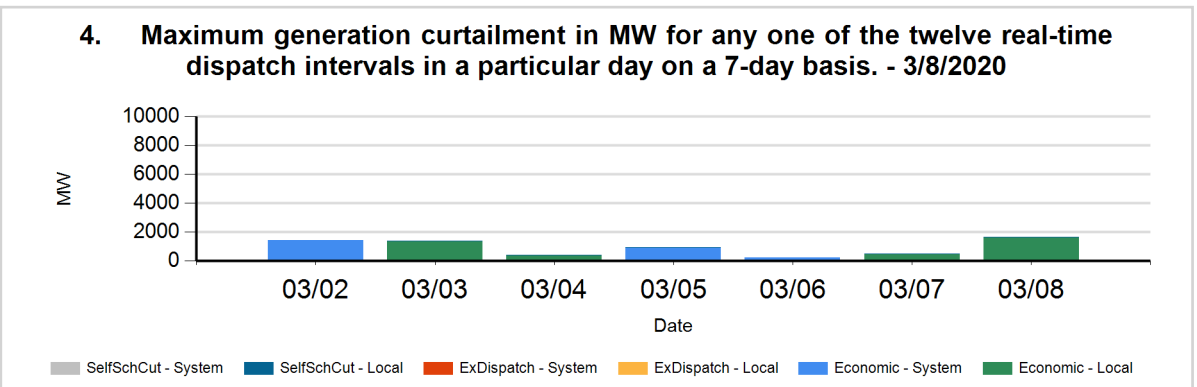
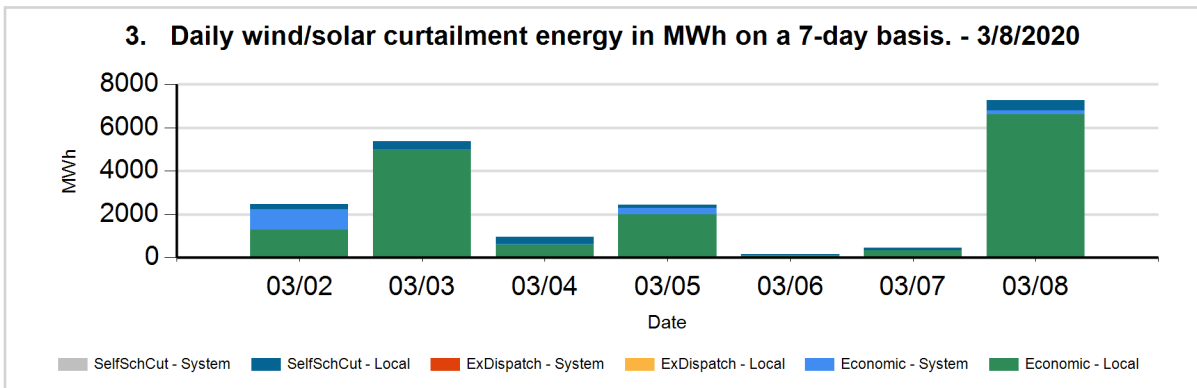
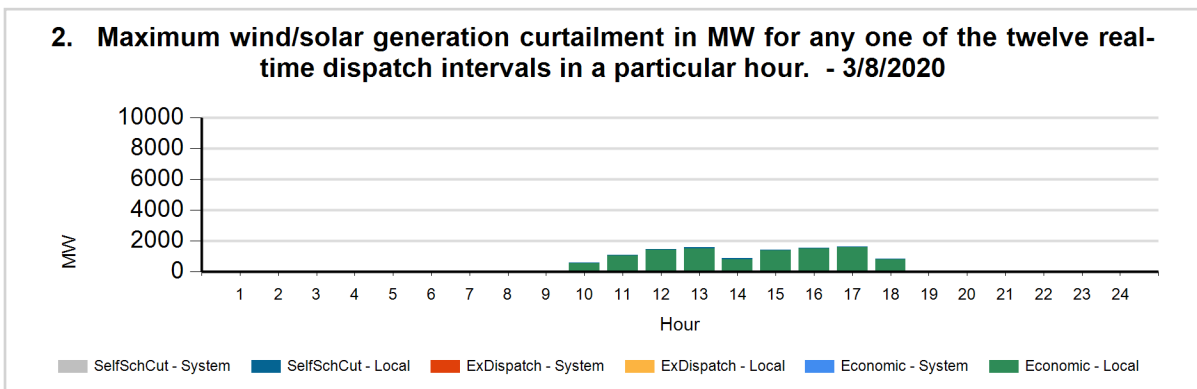
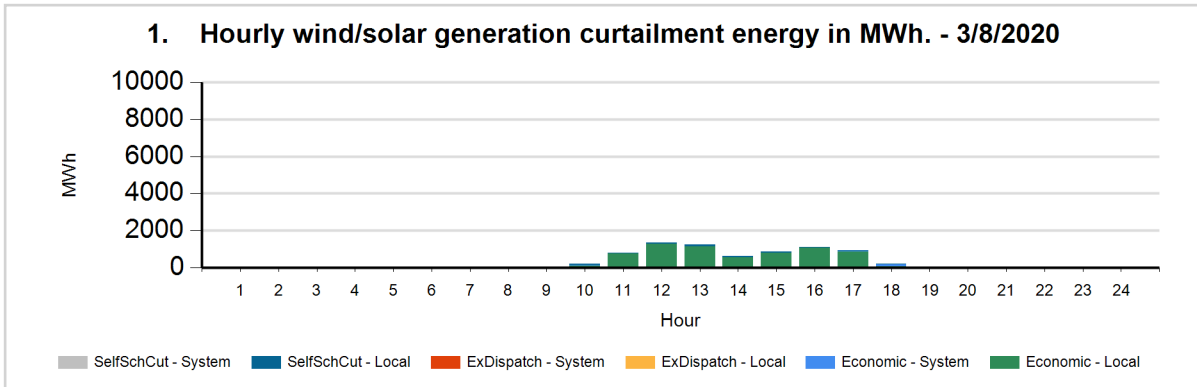
<sup>1</sup>Only wind and solar resources can be reported in this manner because these resources have a forecast. Curtailment is defined as the difference between actual production and the forecast when actual production is less than the forecast.

<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>.

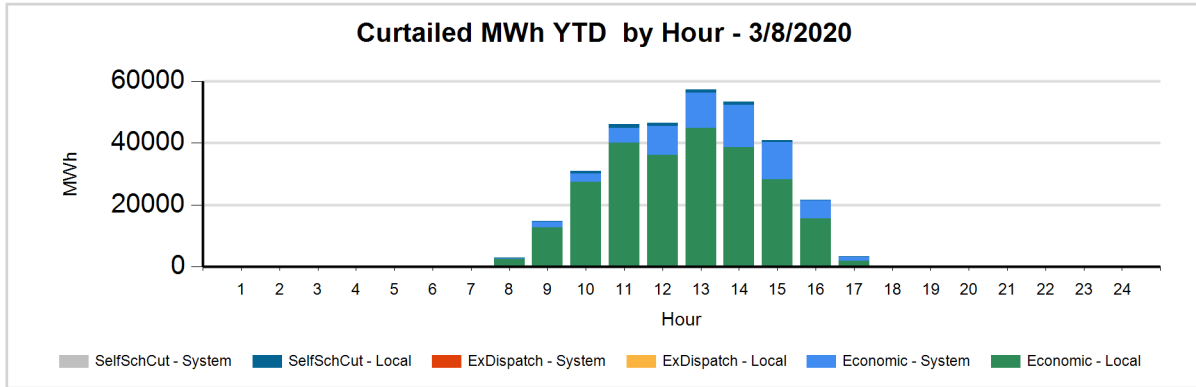
<sup>3</sup>Congestion occurs when available, least-cost energy cannot be delivered to some loads because transmission facilities do not have sufficient capacity to deliver the energy.

<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)

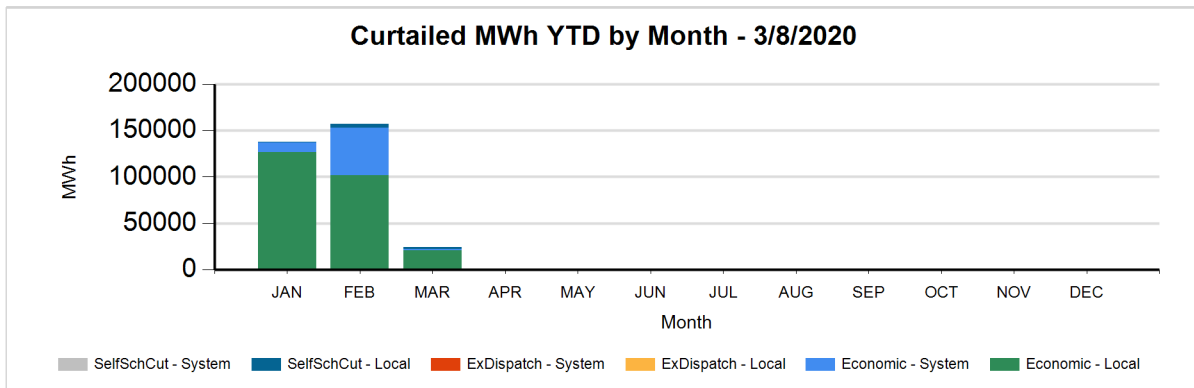
The following charts show the daily and 7-day wind and solar curtailment by category, if any.



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 - 3/8/2020
LocalEconomic	249,117
LocalSelfSchCut	6,615
SystemEconomic	63,638
TOTAL	319,371

**Data used to produce hourly chart**

DATE	HOUR	CURT TYPE	REASON	FUEL TYPE	CURTAILED MWH	CURTAILED MW
03/08	9	Economic	Local	SOLR	0	
03/08	9	Economic	System	SOLR	1	6
03/08	9	SelfSchCut	Local	SOLR	14	24
03/08	10	Economic	Local	SOLR	87	371
03/08	10	Economic	Local	WIND	43	168
03/08	10	Economic	System	SOLR	16	
03/08	10	SelfSchCut	Local	SOLR	42	52
03/08	11	Economic	Local	SOLR	591	883
03/08	11	Economic	Local	WIND	155	175
03/08	11	SelfSchCut	Local	SOLR	49	34
03/08	12	Economic	Local	SOLR	1093	1236
03/08	12	Economic	Local	WIND	170	171
03/08	12	SelfSchCut	Local	SOLR	69	69
03/08	13	Economic	Local	SOLR	983	1346
03/08	13	Economic	Local	WIND	165	168
03/08	13	SelfSchCut	Local	SOLR	76	76
03/08	14	Economic	Local	SOLR	393	625
03/08	14	Economic	Local	WIND	161	162
03/08	14	SelfSchCut	Local	SOLR	74	74
03/08	15	Economic	Local	SOLR	619	1194
03/08	15	Economic	Local	WIND	160	160
03/08	15	SelfSchCut	Local	SOLR	74	74
03/08	16	Economic	Local	SOLR	891	1322
03/08	16	Economic	Local	WIND	164	158
03/08	16	SelfSchCut	Local	SOLR	39	64
03/08	17	Economic	Local	SOLR	837	1600
03/08	17	Economic	Local	WIND	9	27
03/08	17	Economic	System	SOLR	65	
03/08	17	Economic	System	WIND	0	
03/08	17	SelfSchCut	Local	SOLR	19	11
03/08	18	Economic	Local	SOLR	67	797

03/08	18	Economic	Local	WIND	3	32
03/08	18	Economic	System	SOLR	120	
03/08	18	Economic	System	WIND	4	
03/08	18	SelfSchCut	Local	SOLR	4	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).