

Wind and Solar Curtailment March 26, 2020

This report is produced daily to provide a detailed accounting of the wind and solar renewable generation that was curtailed and the reasons why¹. This report should be read in the context of the Renewables Watch report for a more complete understanding of both renewable curtailment and generation².

Wind and solar curtailments are grouped into the following categories:

1. Economic - Local: Market dispatch of generators with economic bids to mitigate local congestion³.
2. Economic - System: Market dispatch of generators with economic bids to mitigate system-wide oversupply⁴.
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.

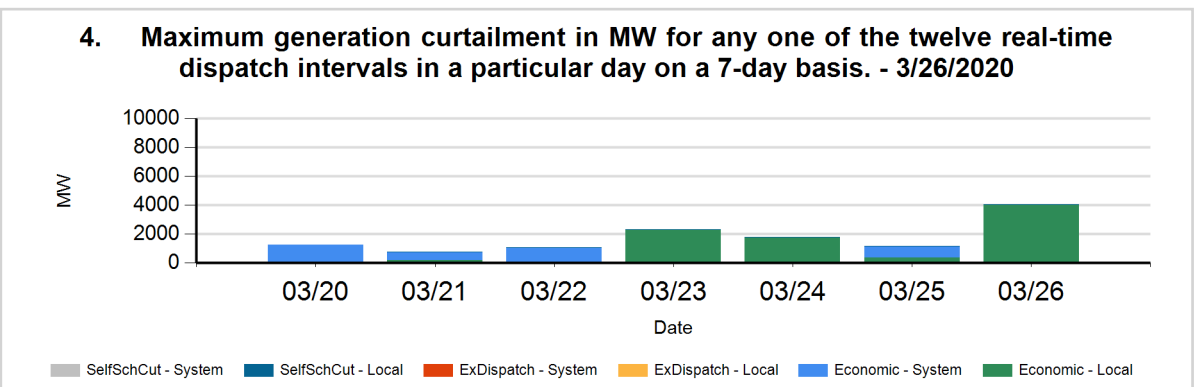
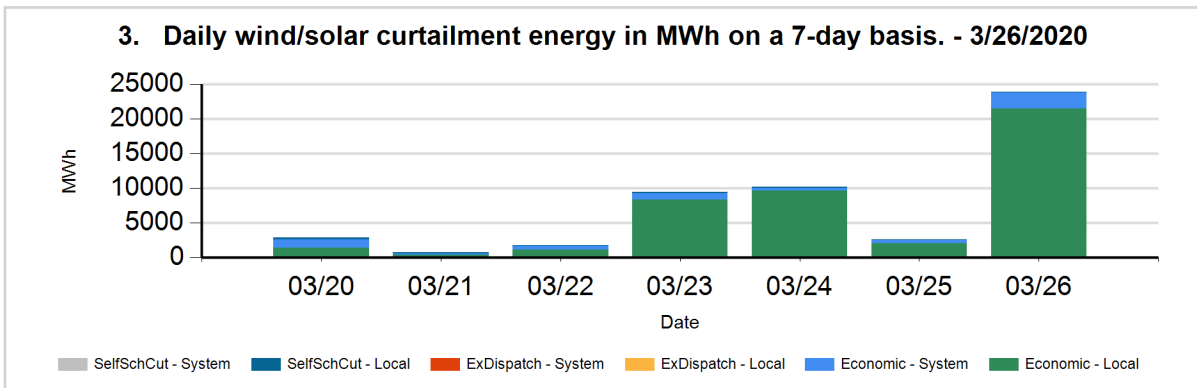
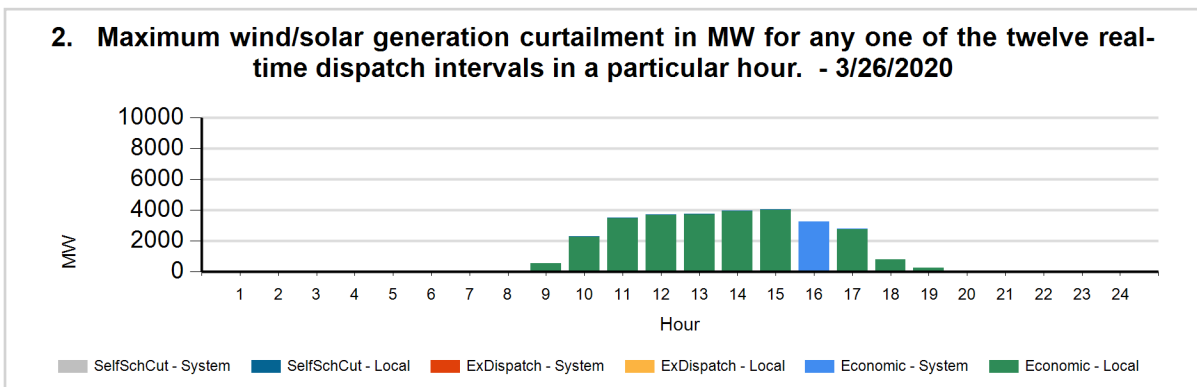
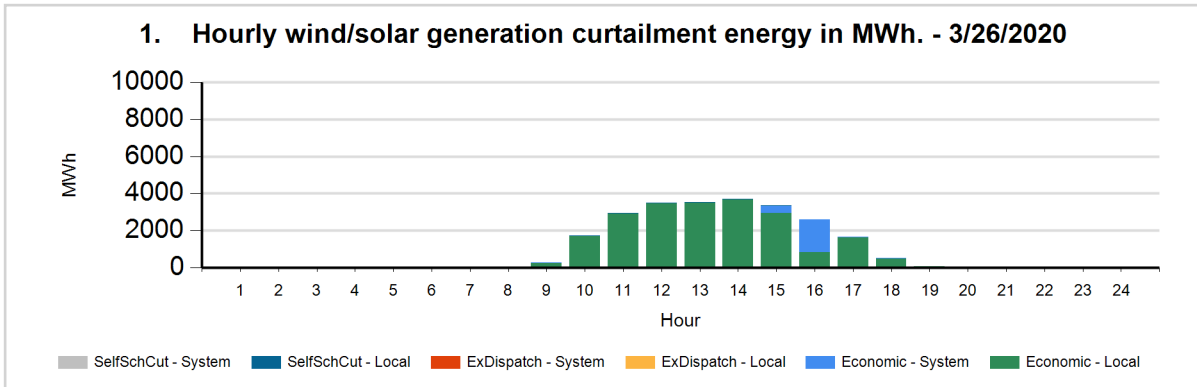
¹Only wind and solar resources can be reported in this manner because these resources have a forecast. Curtailment is defined as the difference between actual production and the forecast when actual production is less than the forecast.

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

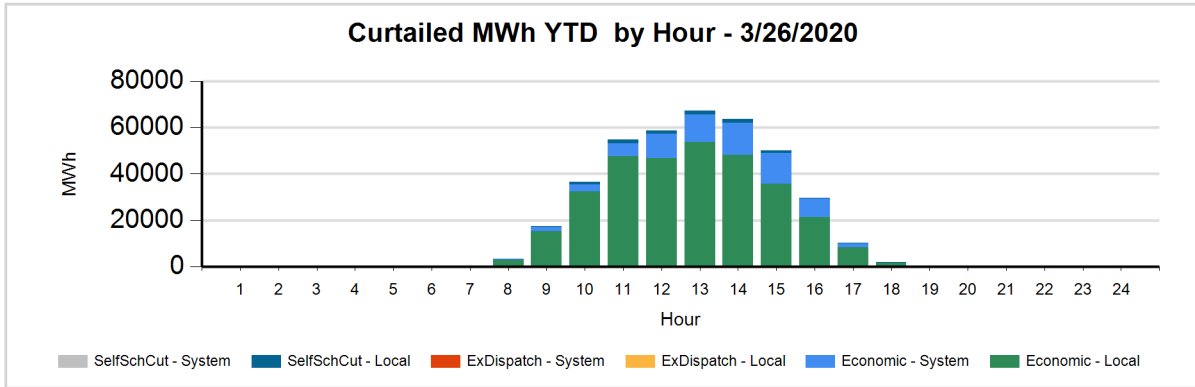
³Congestion occurs when available, least-cost energy cannot be delivered to some loads because transmission facilities do not have sufficient capacity to deliver the energy.

⁴For more information on oversupply conditions, please see: https://www.caiso.com/Documents/FlexibleResourcesHelpRenewables_FastFacts.pdf

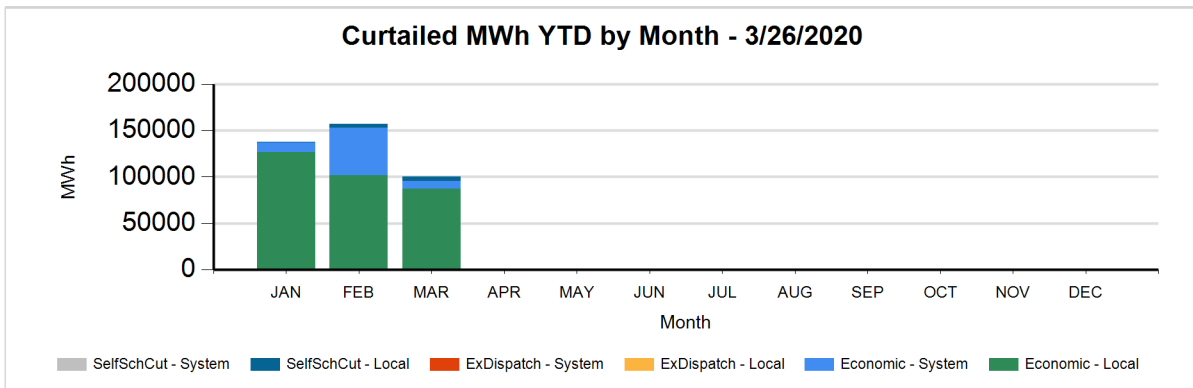
The following charts show the daily and 7-day wind and solar curtailment by category, if any.



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 - 3/26/2020
LocalEconomic	315,567
LocalSelfSchCut	9,738
SystemEconomic	70,358
TOTAL	395,662

Data used to produce hourly chart

DATE	HOUR	CURT TYPE	REASON	FUEL TYPE	CURTAILED MWH	CURTAILED MW
03/26	8	Economic	Local	SOLR	10	27
03/26	8	Economic	System	SOLR	3	
03/26	9	Economic	Local	SOLR	229	500
03/26	9	Economic	Local	WIND	40	44
03/26	9	Economic	System	SOLR	5	
03/26	10	Economic	Local	SOLR	1620	2227
03/26	10	Economic	Local	WIND	99	51
03/26	10	SelfSchCut	Local	SOLR	17	25
03/26	11	Economic	Local	SOLR	2787	3242
03/26	11	Economic	Local	WIND	124	220
03/26	11	SelfSchCut	Local	SOLR	19	31
03/26	12	Economic	Local	SOLR	3293	3482
03/26	12	Economic	Local	WIND	193	217
03/26	12	SelfSchCut	Local	SOLR	20	13
03/26	13	Economic	Local	SOLR	3326	3495
03/26	13	Economic	Local	WIND	170	244
03/26	13	SelfSchCut	Local	SOLR	30	32
03/26	14	Economic	Local	SOLR	3423	3691
03/26	14	Economic	Local	WIND	236	236
03/26	14	Economic	System	WIND	0	
03/26	14	SelfSchCut	Local	SOLR	33	33
03/26	15	Economic	Local	SOLR	2719	3750
03/26	15	Economic	Local	WIND	217	249
03/26	15	Economic	System	SOLR	383	
03/26	15	Economic	System	WIND	26	
03/26	15	SelfSchCut	Local	SOLR	15	29
03/26	16	Economic	Local	SOLR	793	
03/26	16	Economic	Local	WIND	28	
03/26	16	Economic	System	SOLR	1670	2999
03/26	16	Economic	System	WIND	109	235
03/26	17	Economic	Local	SOLR	1499	2533

03/26	17	Economic	Local	WIND	114	216
03/26	17	Economic	System	SOLR	43	25
03/26	17	Economic	System	WIND	1	2
03/26	18	Economic	Local	SOLR	367	615
03/26	18	Economic	Local	WIND	139	185
03/26	18	Economic	System	SOLR	5	
03/26	19	Economic	Local	SOLR	48	209
03/26	19	Economic	Local	WIND	13	31
03/26	22	Economic	Local	WIND	7	30
03/26	23	Economic	Local	WIND	23	31
03/26	24	Economic	Local	WIND	11	35

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.