

Wind and Solar Curtailment April 04, 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.

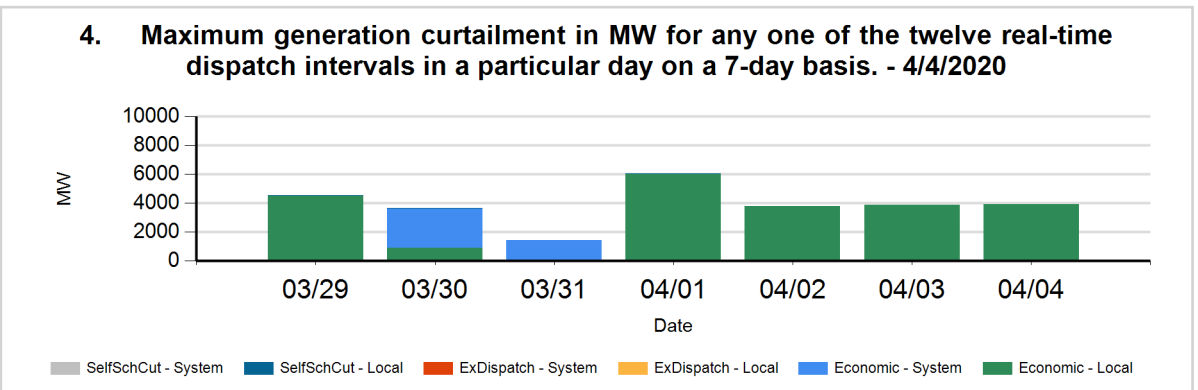
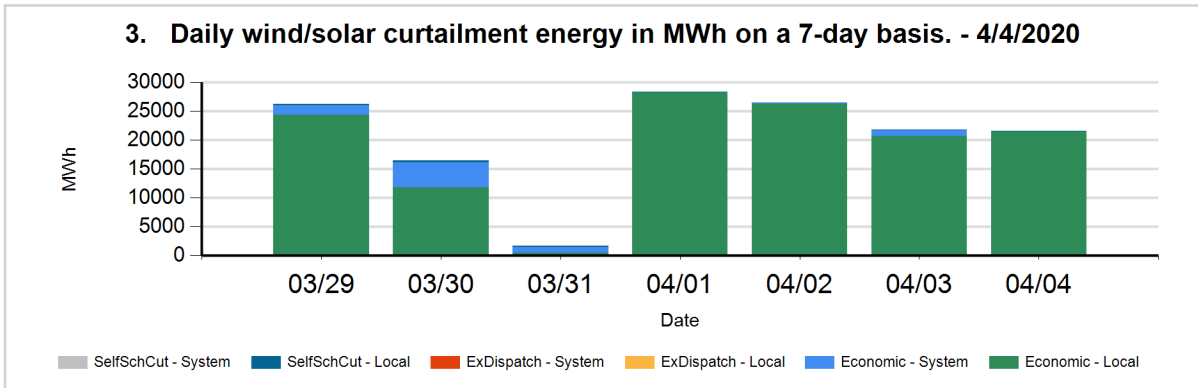
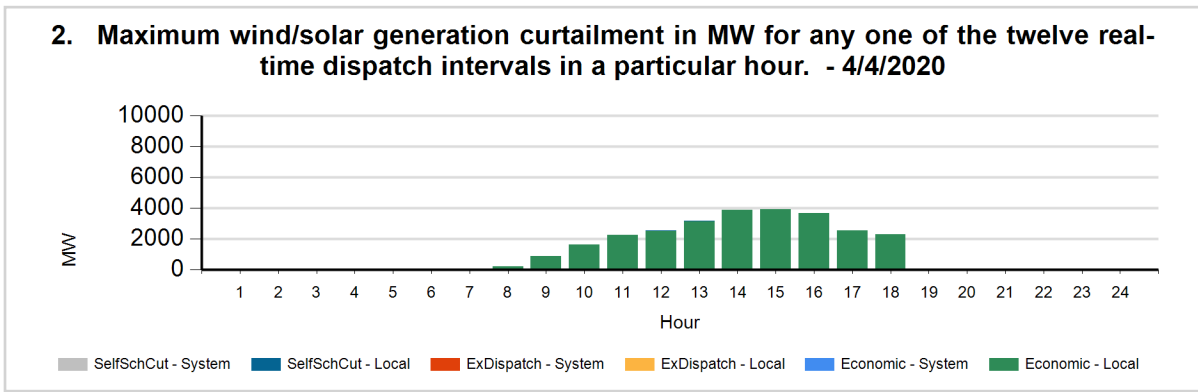
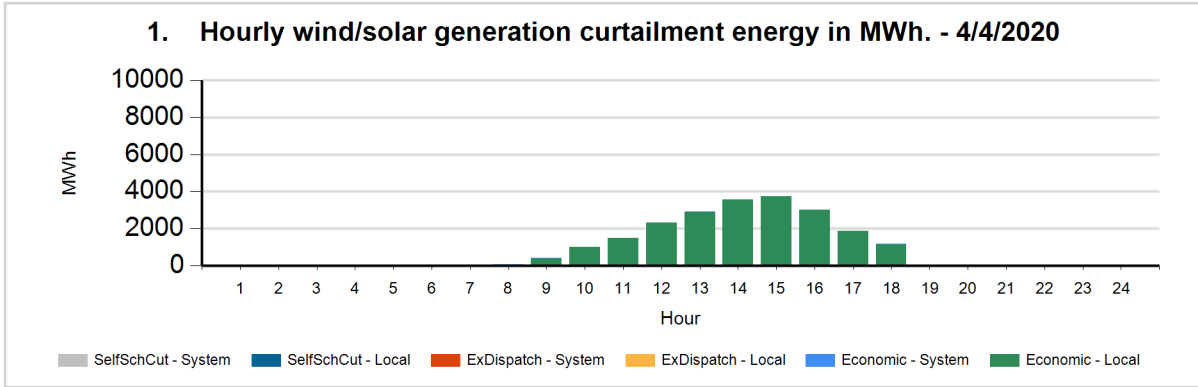
²The Renewables Watch report provides daily actual renewable production within the ISO grid. It is available at: <http://www.caiso.com/green/renewableswatch.html>.

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.

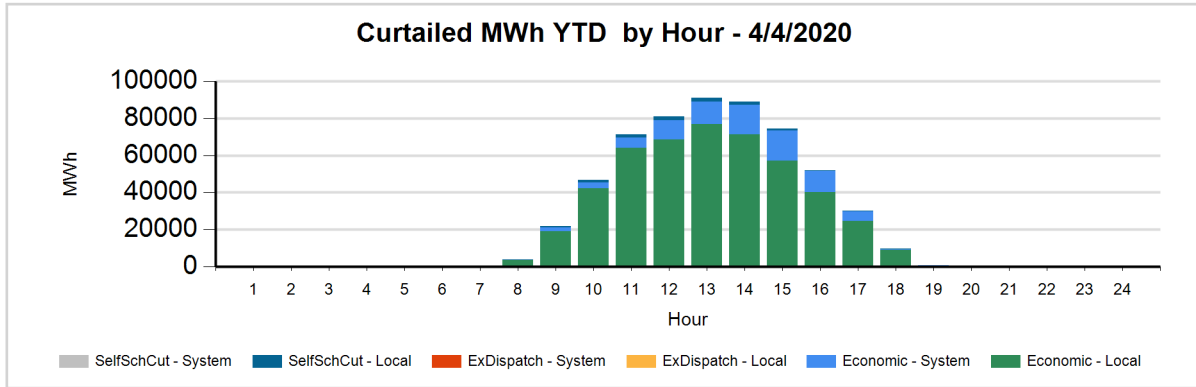
⁴For more information on oversupply conditions, please see:

https://www.caiso.com/Documents/FlexibleResourcesHelpRenewables_FastFacts.pdf

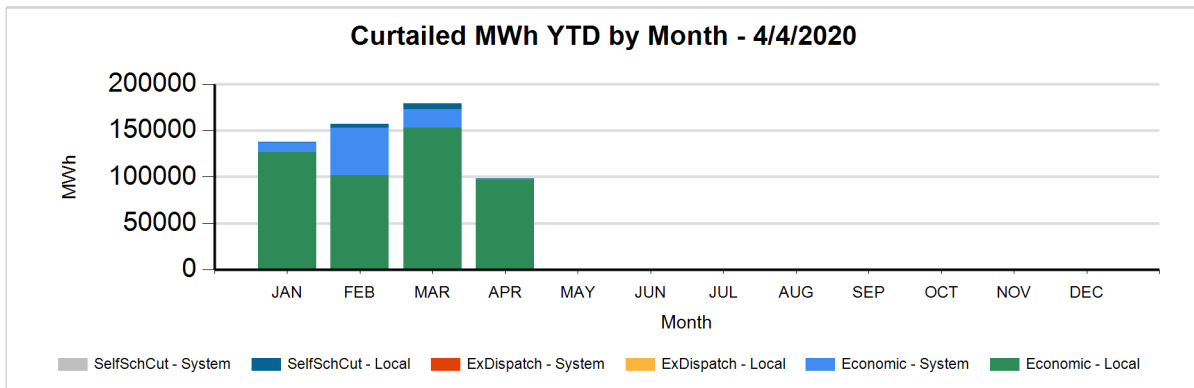
The following charts show the daily and 7-day wind and solar curtailment by category, if any.



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 - 4/4/2020
LocalEconomic	477,607
LocalSelfSchCut	10,910
SystemEconomic	83,694
TOTAL	572,211

Data used to produce hourly chart

DATE	HOUR	CURT TYPE	REASON	FUEL TYPE	CURTAILED MWH	CURTAILED MW
04/04	7	Economic	System	SOLR	1	18
04/04	8	Economic	Local	SOLR	39	220
04/04	8	Economic	System	SOLR	14	
04/04	9	Economic	Local	SOLR	399	864
04/04	9	Economic	Local	WIND	0	
04/04	9	Economic	System	SOLR	3	
04/04	10	Economic	Local	SOLR	973	1547
04/04	10	Economic	Local	WIND	37	57
04/04	11	Economic	Local	SOLR	1424	2214
04/04	11	Economic	Local	WIND	55	52
04/04	12	Economic	Local	SOLR	2272	2482
04/04	12	Economic	Local	WIND	59	66
04/04	12	SelfSchCut	Local	SOLR	0	2
04/04	13	Economic	Local	SOLR	2847	3109
04/04	13	Economic	Local	WIND	61	65
04/04	13	SelfSchCut	Local	SOLR	2	4
04/04	14	Economic	Local	SOLR	3495	3815
04/04	14	Economic	Local	WIND	57	53
04/04	14	SelfSchCut	Local	SOLR	0	
04/04	15	Economic	Local	SOLR	3682	3836
04/04	15	Economic	Local	WIND	60	62
04/04	15	SelfSchCut	Local	SOLR	0	
04/04	16	Economic	Local	SOLR	2963	3603
04/04	16	Economic	Local	WIND	54	49
04/04	17	Economic	Local	SOLR	1804	2484
04/04	17	Economic	Local	WIND	59	60
04/04	18	Economic	Local	SOLR	1146	2246
04/04	18	Economic	Local	WIND	15	30
04/04	18	Economic	System	SOLR	4	
04/04	19	Economic	Local	SOLR	5	32
04/04	19	Economic	System	SOLR	2	

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.