

Wind and Solar Curtailment May 03, 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.

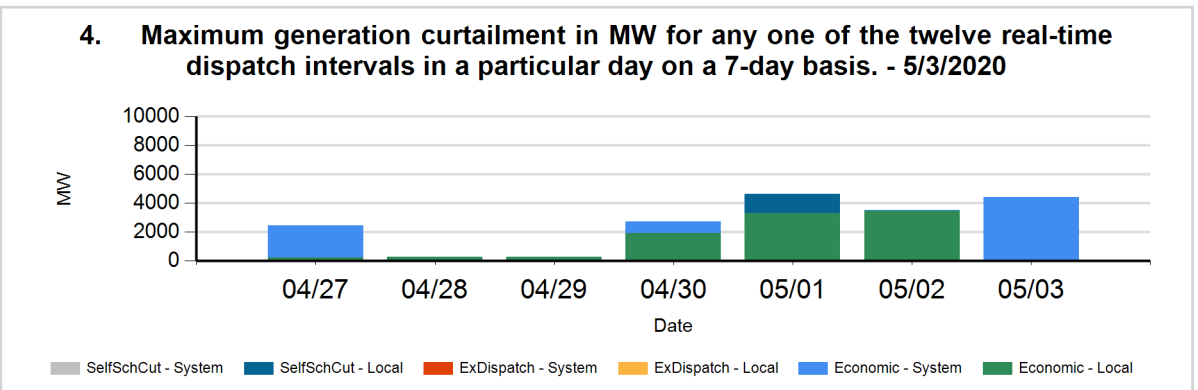
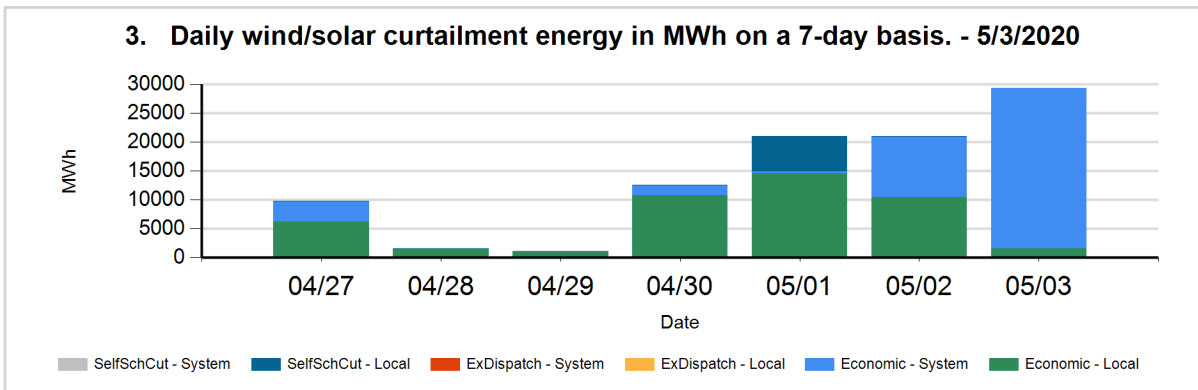
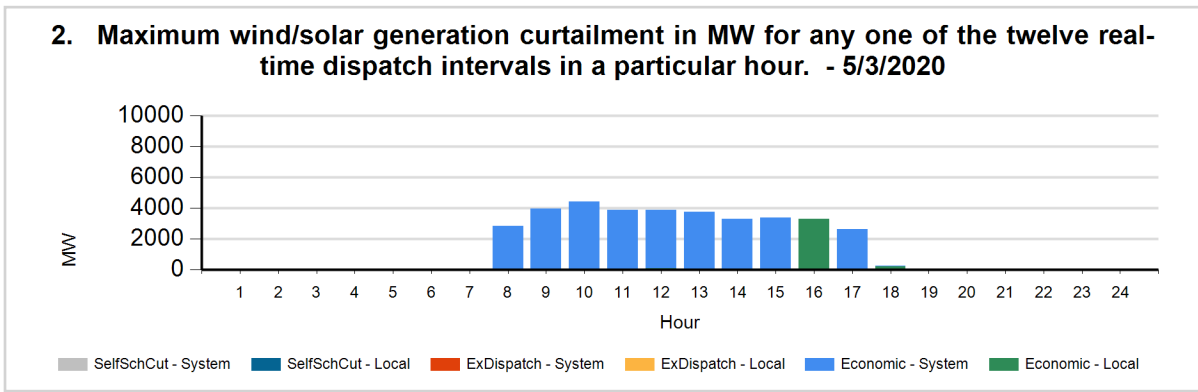
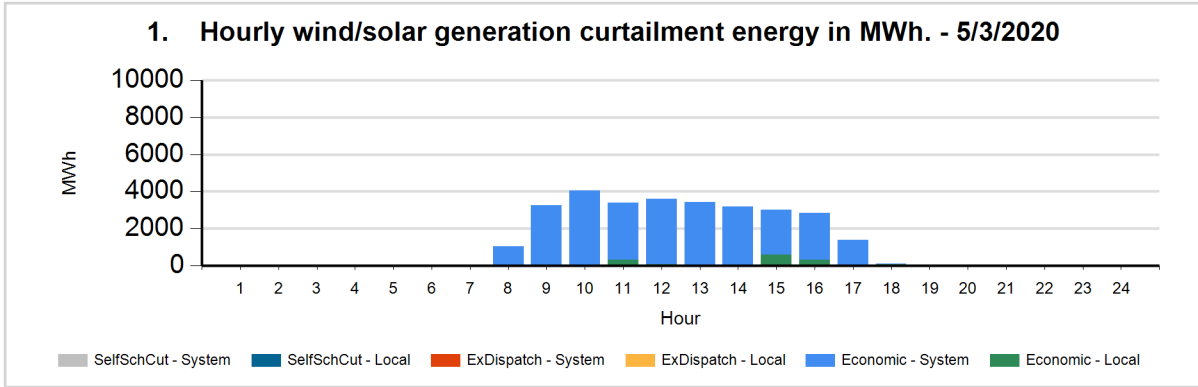
¹Only wind and solar resources can be reported in this manner because these resources have a forecast. Curtailment is defined as the difference between actual production and the forecast when actual production is less than the forecast.

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

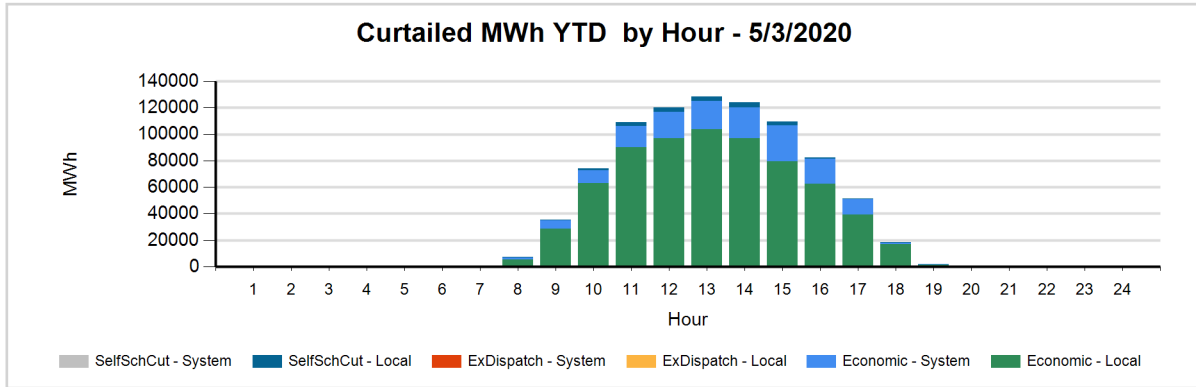
³Congestion occurs when available, least-cost energy cannot be delivered to some loads because transmission facilities do not have sufficient capacity to deliver the energy.

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

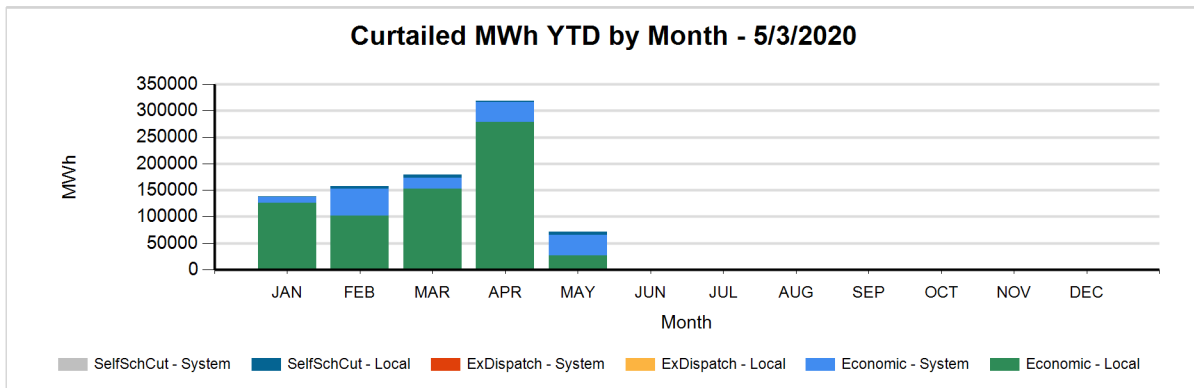
The following charts show the daily and 7-day wind and solar curtailment by category, if any.



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 - 5/3/2020
LocalEconomic	686,037
LocalSelfSchCut	19,405
SystemEconomic	158,465
TOTAL	863,907

Data used to produce hourly chart

DATE	HOUR	CURT TYPE	REASON	FUEL TYPE	CURTAILED MWH	CURTAILED MW
05/03	7	Economic	Local	SOLR	14	40
05/03	7	Economic	System	SOLR	1	
05/03	8	Economic	Local	SOLR	26	5
05/03	8	Economic	System	SOLR	971	2698
05/03	8	Economic	System	WIND	39	121
05/03	9	Economic	Local	SOLR	2	5
05/03	9	Economic	System	SOLR	3086	3787
05/03	9	Economic	System	WIND	157	189
05/03	10	Economic	Local	SOLR	17	18
05/03	10	Economic	System	SOLR	3833	4228
05/03	10	Economic	System	WIND	184	156
05/03	11	Economic	Local	SOLR	296	26
05/03	11	Economic	Local	WIND	4	
05/03	11	Economic	System	SOLR	2990	3715
05/03	11	Economic	System	WIND	97	144
05/03	12	Economic	Local	SOLR	51	67
05/03	12	Economic	System	SOLR	3424	3631
05/03	12	Economic	System	WIND	132	176
05/03	13	Economic	Local	SOLR	46	46
05/03	13	Economic	System	SOLR	3255	3551
05/03	13	Economic	System	WIND	106	160
05/03	14	Economic	Local	SOLR	46	46
05/03	14	Economic	System	SOLR	3082	3191
05/03	14	Economic	System	WIND	43	47
05/03	15	Economic	Local	SOLR	567	45
05/03	15	Economic	Local	WIND	10	
05/03	15	Economic	System	SOLR	2392	3268
05/03	15	Economic	System	WIND	52	78
05/03	16	Economic	Local	SOLR	298	3138
05/03	16	Economic	Local	WIND	14	164
05/03	16	Economic	System	SOLR	2450	

05/03	16	Economic	System	WIND	89	
05/03	17	Economic	Local	SOLR	44	26
05/03	17	Economic	System	SOLR	1281	2499
05/03	17	Economic	System	WIND	66	81
05/03	18	Economic	Local	SOLR	82	243
05/03	18	Economic	Local	WIND	1	
05/03	18	Economic	System	SOLR	29	11
05/03	19	Economic	Local	SOLR	18	45
05/03	19	Economic	Local	WIND	1	

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.