

Wind and Solar Curtailment May 19, 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.

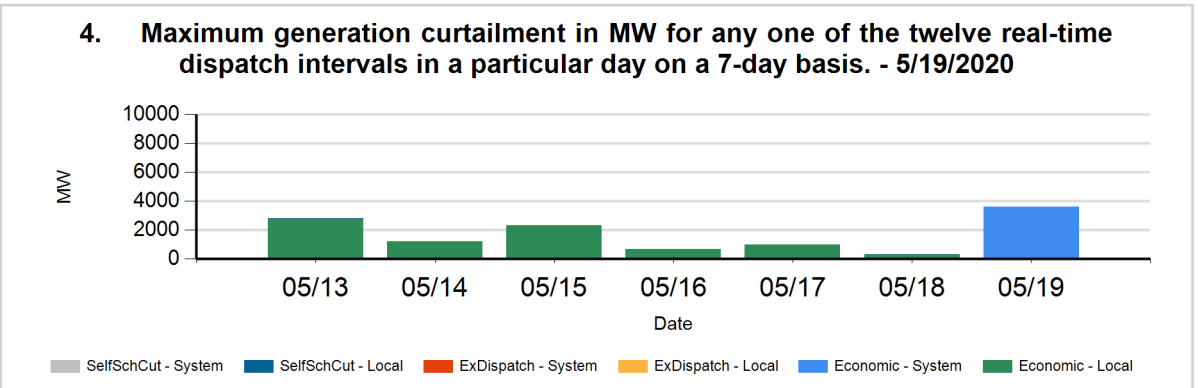
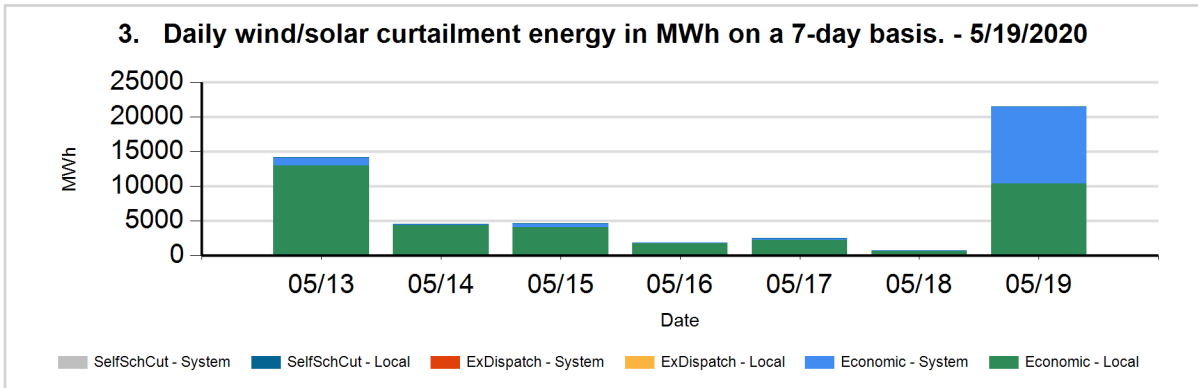
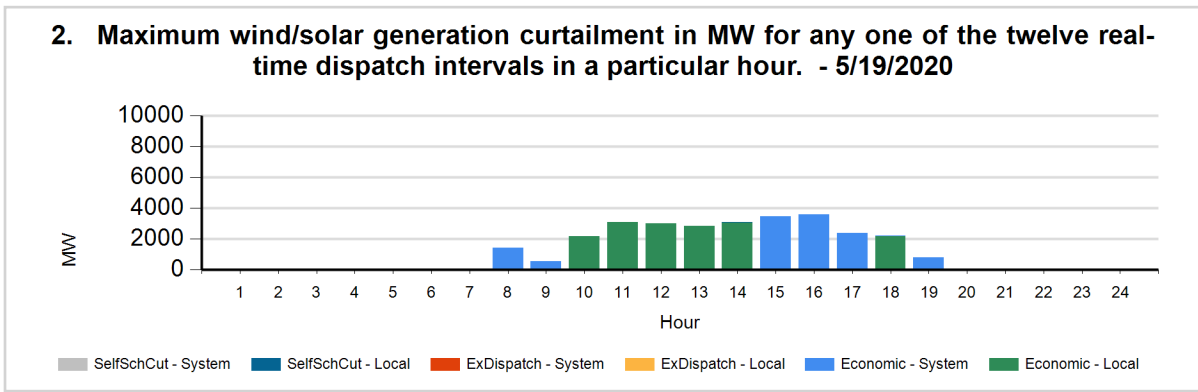
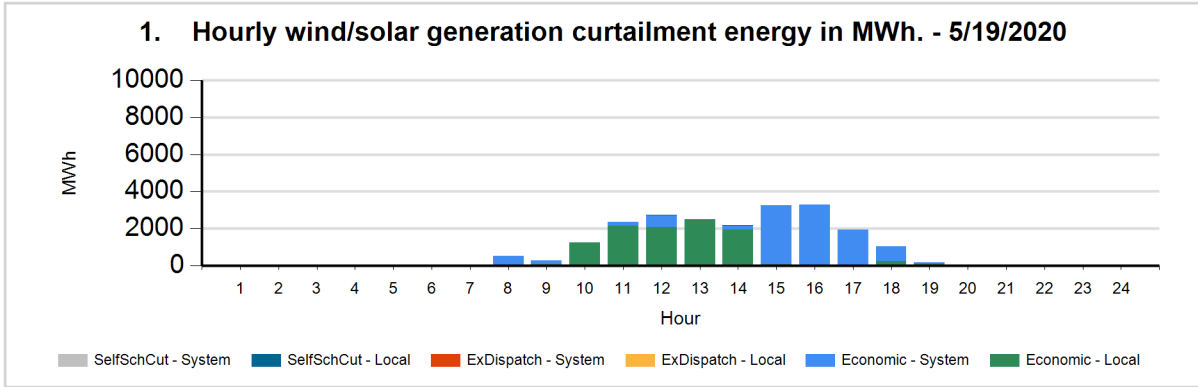
²The Renewables Watch report provides daily actual renewable production within the ISO grid. It is available at: <http://www.caiso.com/green/renewableswatch.html>.

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.

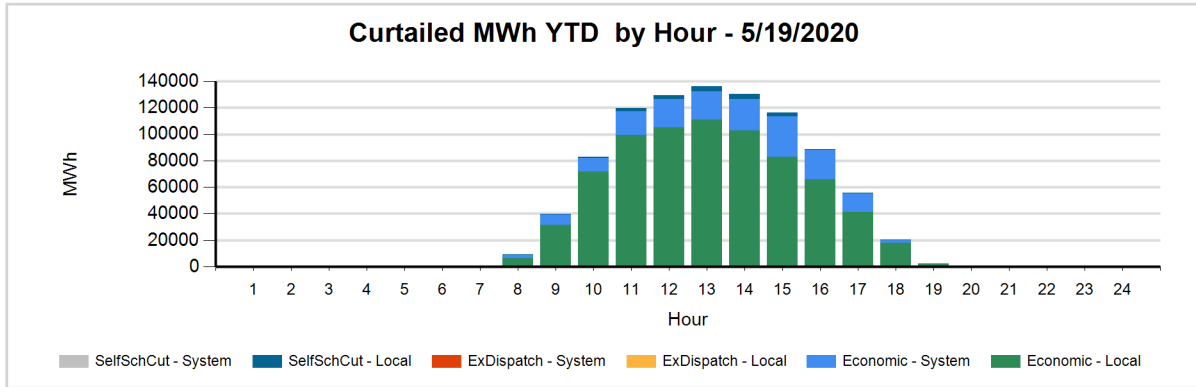
⁴For more information on oversupply conditions, please see:

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

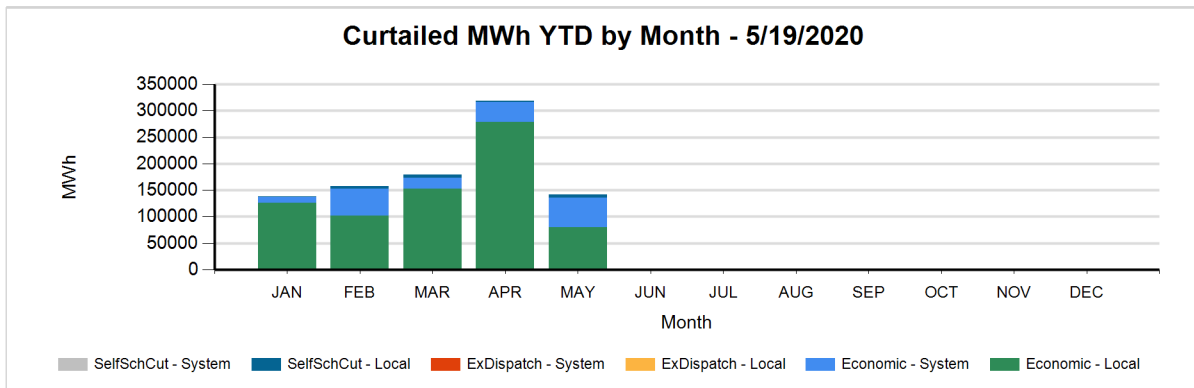
The following charts show the daily and 7-day wind and solar curtailment by category, if any.



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 - 5/19/2020
LocalEconomic	739,485
LocalSelfSchCut	19,472
SystemEconomic	175,107
TOTAL	934,064

Data used to produce hourly chart

DATE	HOUR	CURT TYPE	REASON	FUEL TYPE	CURTAILED MWH	CURTAILED MW
05/19	7	Economic	Local	SOLR	10	12
05/19	7	Economic	System	SOLR	7	36
05/19	8	Economic	Local	SOLR	27	17
05/19	8	Economic	System	SOLR	465	1354
05/19	8	Economic	System	WIND	17	35
05/19	9	Economic	Local	SOLR	68	10
05/19	9	Economic	Local	WIND	0	
05/19	9	Economic	System	SOLR	180	516
05/19	9	Economic	System	WIND	9	10
05/19	10	Economic	Local	SOLR	1247	2148
05/19	10	Economic	Local	WIND	5	19
05/19	10	SelfSchCut	Local	SOLR	0	
05/19	11	Economic	Local	SOLR	2130	3064
05/19	11	Economic	Local	WIND	21	24
05/19	11	Economic	System	SOLR	191	
05/19	11	Economic	System	WIND	4	
05/19	12	Economic	Local	SOLR	2047	2956
05/19	12	Economic	Local	WIND	18	25
05/19	12	Economic	System	SOLR	642	
05/19	12	Economic	System	WIND	9	
05/19	12	SelfSchCut	Local	SOLR	1	
05/19	13	Economic	Local	SOLR	2449	2797
05/19	13	Economic	Local	WIND	23	25
05/19	13	SelfSchCut	Local	SOLR	4	
05/19	14	Economic	Local	SOLR	1912	3058
05/19	14	Economic	Local	WIND	17	23
05/19	14	Economic	System	SOLR	235	
05/19	14	Economic	System	WIND	3	
05/19	14	SelfSchCut	Local	SOLR	3	2
05/19	15	Economic	Local	SOLR	50	35
05/19	15	Economic	System	SOLR	3088	3259

05/19	15	Economic	System	WIND	109	164
05/19	16	Economic	Local	SOLR	20	33
05/19	16	Economic	System	SOLR	3068	3310
05/19	16	Economic	System	WIND	206	237
05/19	17	Economic	Local	SOLR	21	10
05/19	17	Economic	System	SOLR	1868	2242
05/19	17	Economic	System	WIND	57	138
05/19	18	Economic	Local	SOLR	234	2148
05/19	18	Economic	Local	WIND	7	51
05/19	18	Economic	System	SOLR	757	15
05/19	18	Economic	System	WIND	31	
05/19	19	Economic	Local	SOLR	87	
05/19	19	Economic	Local	WIND	7	
05/19	19	Economic	System	SOLR	83	745
05/19	19	Economic	System	WIND	7	40
05/19	20	Economic	Local	SOLR	0	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.