

Wind and Solar Curtailment May 02, 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.

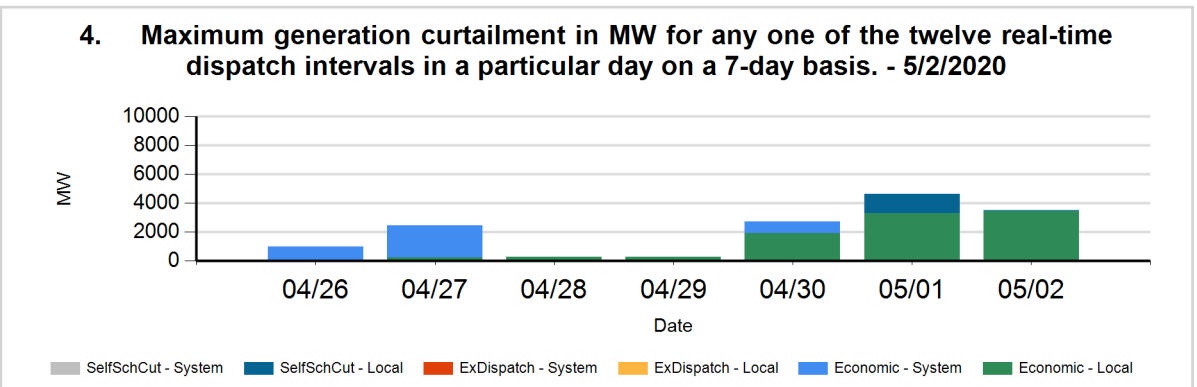
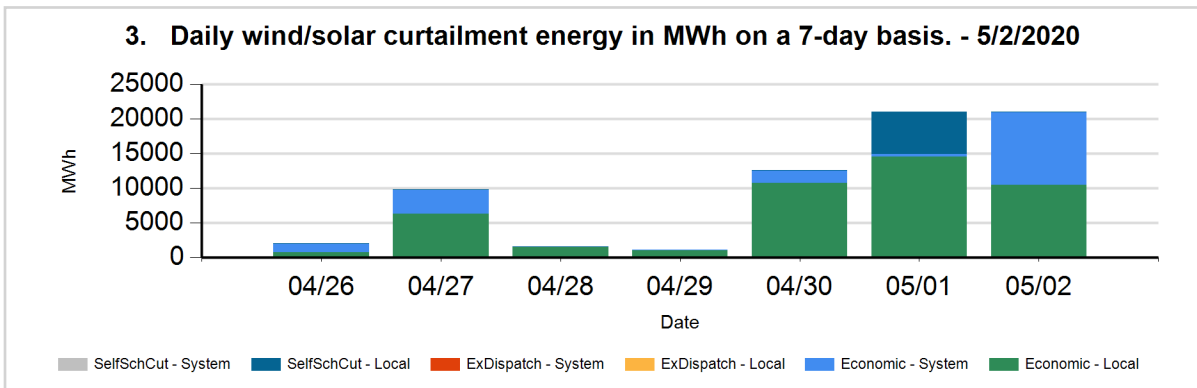
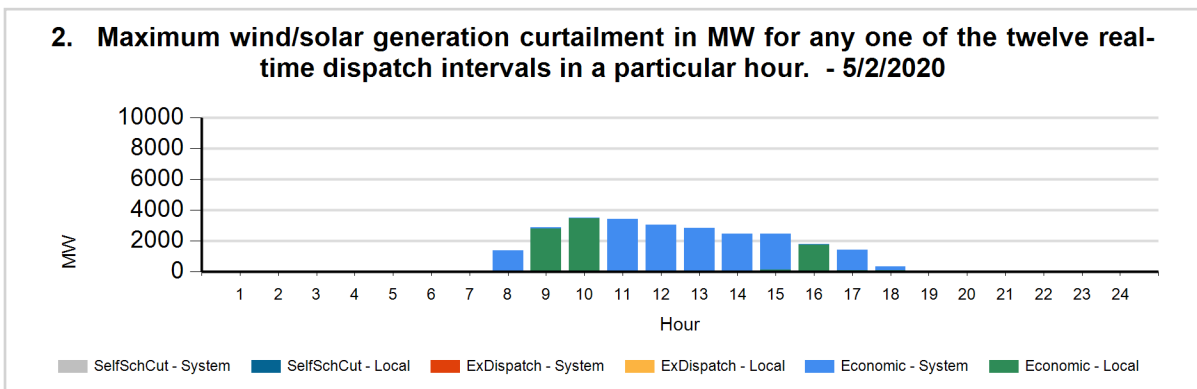
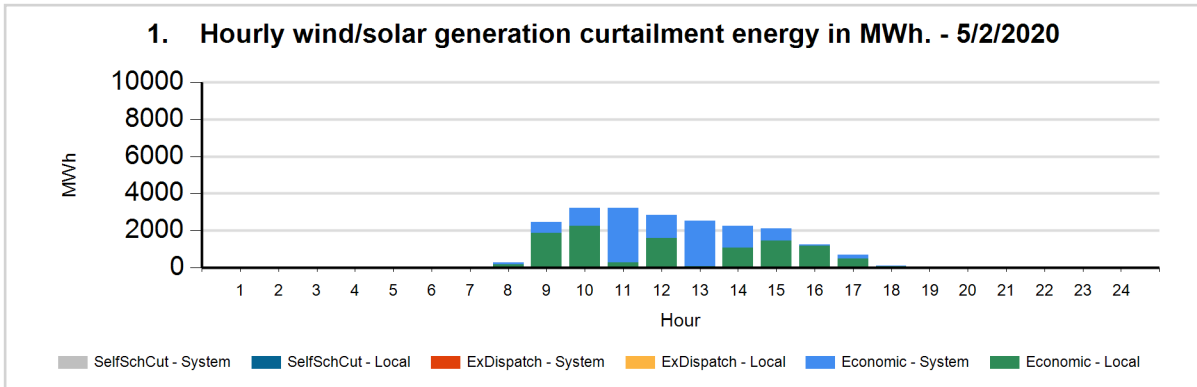
²The Renewables Watch report provides daily actual renewable production within the ISO grid. It is available at: <http://www.caiso.com/green/renewableswatch.html>.

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.

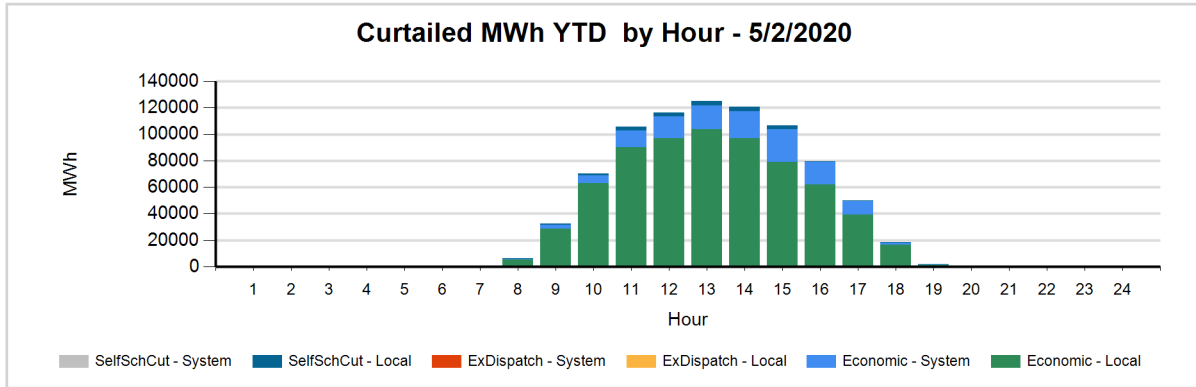
⁴For more information on oversupply conditions, please see:

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

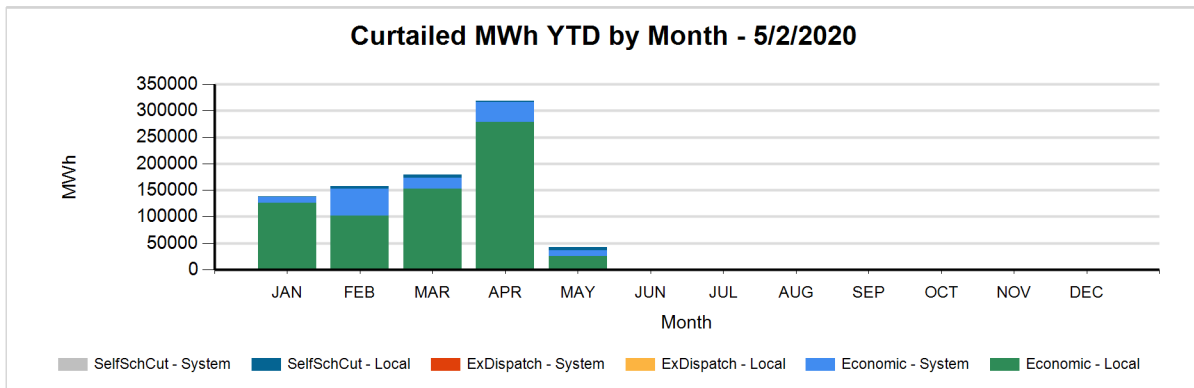
The following charts show the daily and 7-day wind and solar curtailment by category, if any.



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 - 5/2/2020
LocalEconomic	684,501
LocalSelfSchCut	19,405
SystemEconomic	130,705
TOTAL	834,611

Data used to produce hourly chart

DATE	HOUR	CURT TYPE	REASON	FUEL TYPE	CURTAILED MWH	CURTAILED MW
05/02	7	Economic	Local	SOLR	3	4
05/02	7	Economic	System	SOLR	5	24
05/02	8	Economic	Local	SOLR	155	44
05/02	8	Economic	Local	WIND	2	
05/02	8	Economic	System	SOLR	127	1273
05/02	8	Economic	System	WIND	6	46
05/02	9	Economic	Local	SOLR	1823	2648
05/02	9	Economic	Local	WIND	59	129
05/02	9	Economic	System	SOLR	550	99
05/02	9	Economic	System	WIND	25	
05/02	10	Economic	Local	SOLR	2177	3323
05/02	10	Economic	Local	WIND	80	159
05/02	10	Economic	System	SOLR	903	1
05/02	10	Economic	System	WIND	57	26
05/02	11	Economic	Local	SOLR	267	22
05/02	11	Economic	Local	WIND	2	
05/02	11	Economic	System	SOLR	2870	3245
05/02	11	Economic	System	WIND	89	161
05/02	11	SelfSchCut	Local	SOLR	0	
05/02	12	Economic	Local	SOLR	1559	39
05/02	12	Economic	Local	WIND	16	
05/02	12	Economic	System	SOLR	1223	2927
05/02	12	Economic	System	WIND	33	67
05/02	12	SelfSchCut	Local	SOLR	0	
05/02	13	Economic	Local	SOLR	53	38
05/02	13	Economic	System	SOLR	2395	2714
05/02	13	Economic	System	WIND	75	72
05/02	14	Economic	Local	SOLR	1026	44
05/02	14	Economic	Local	WIND	28	
05/02	14	Economic	System	SOLR	1165	2343
05/02	14	Economic	System	WIND	44	75

05/02	14	SelfSchCut	Local	SOLR	0	
05/02	15	Economic	Local	SOLR	1404	140
05/02	15	Economic	Local	WIND	36	
05/02	15	Economic	System	SOLR	642	2226
05/02	15	Economic	System	WIND	41	80
05/02	15	SelfSchCut	Local	SOLR	0	
05/02	16	Economic	Local	SOLR	1135	1763
05/02	16	Economic	Local	WIND	23	30
05/02	16	Economic	System	SOLR	73	
05/02	16	Economic	System	WIND	7	10
05/02	17	Economic	Local	SOLR	487	81
05/02	17	Economic	Local	WIND	9	
05/02	17	Economic	System	SOLR	190	1271
05/02	17	Economic	System	WIND	17	76
05/02	18	Economic	Local	SOLR	90	74
05/02	18	Economic	System	SOLR	21	228
05/02	18	Economic	System	WIND	3	26
05/02	19	Economic	Local	SOLR	18	43
05/02	19	Economic	Local	WIND	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.