

Wind and Solar Curtailment February 16, 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.

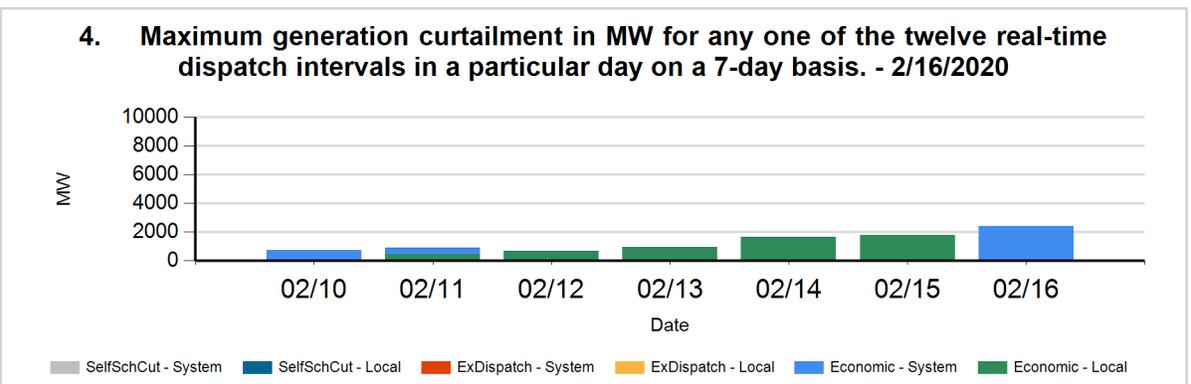
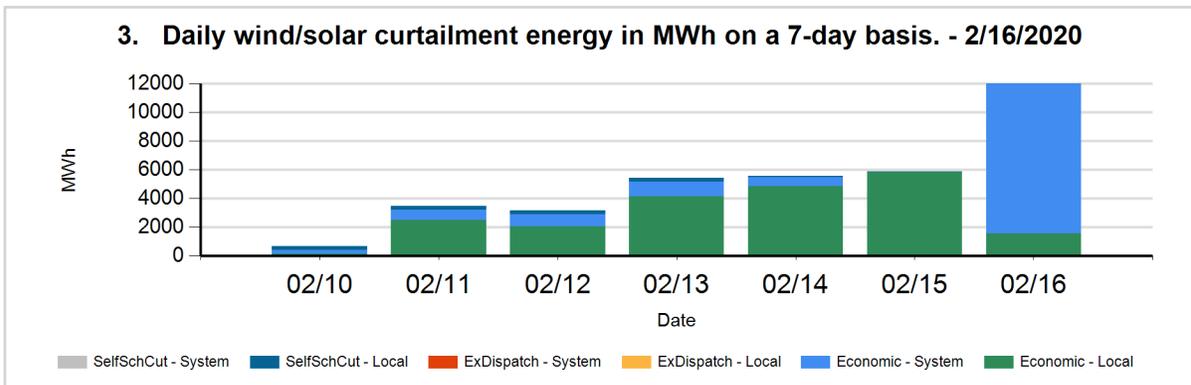
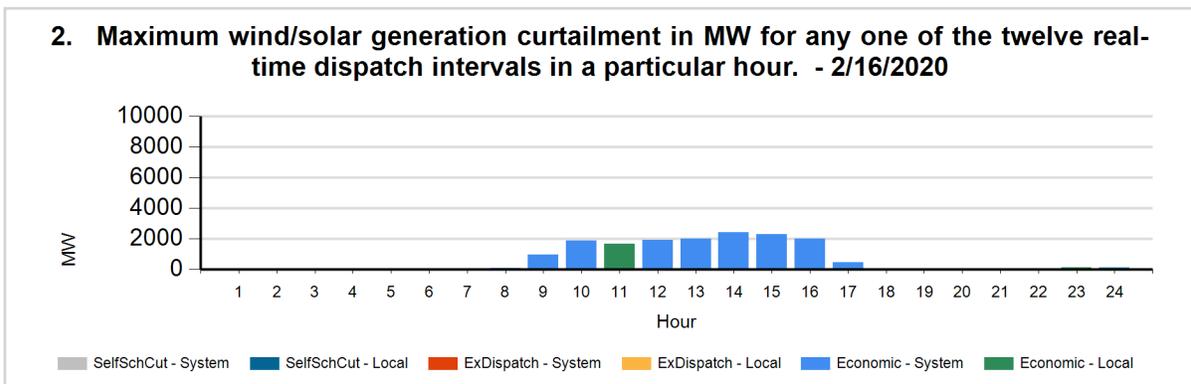
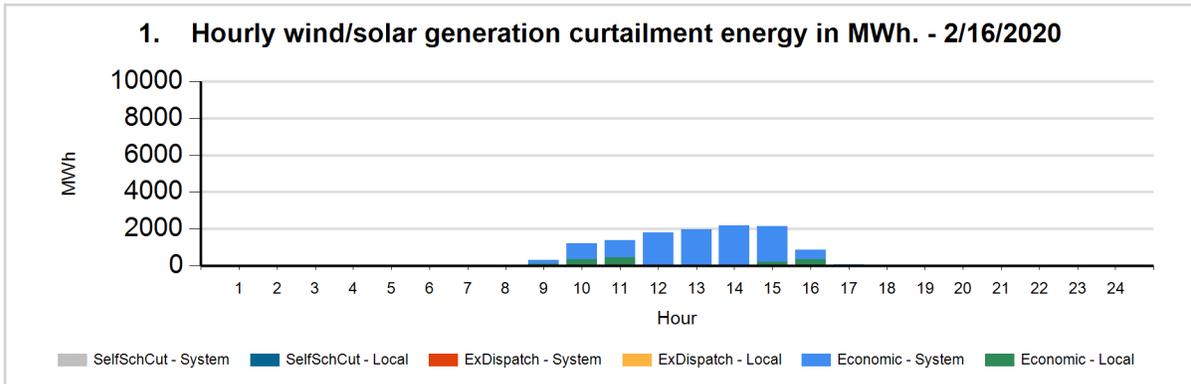
¹Only wind and solar resources can be reported in this manner because these resources have a forecast. Curtailment is defined as the difference between actual production and the forecast when actual production is less than the forecast.

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

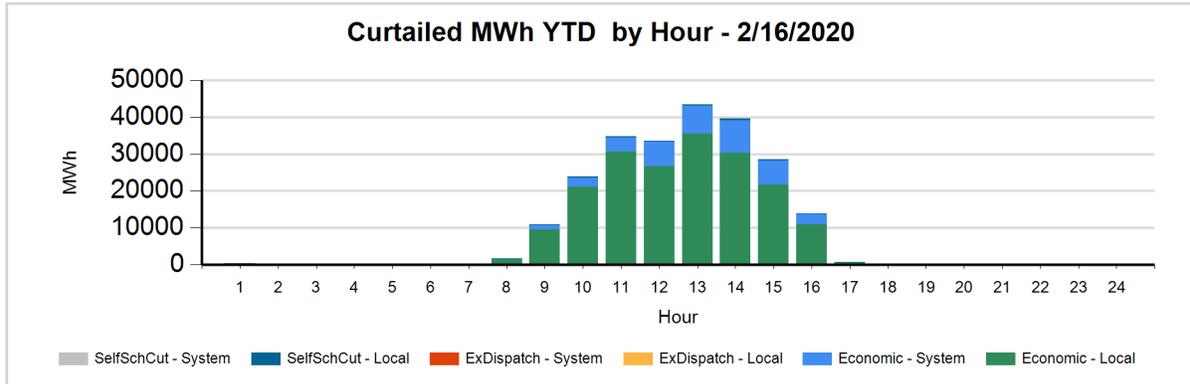
³Congestion occurs when available, least-cost energy cannot be delivered to some loads because transmission facilities do not have sufficient capacity to deliver the energy.

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

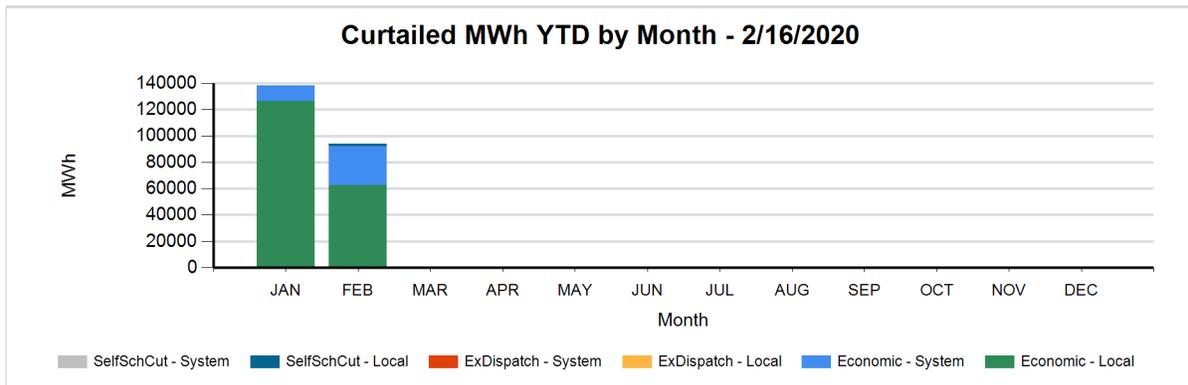
The following charts show the daily and 7-day wind and solar curtailment by category, if any.



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 - 2/16/2020
LocalEconomic	188,869
LocalSelfSchCut	2,261
SystemEconomic	40,829
TOTAL	231,959

Data used to produce hourly chart

DATE	HOUR	CURT TYPE	REASON	FUEL TYPE	CURTAILED MWH	CURTAILED MW
02/16	7	Economic	System	SOLR	1	9
02/16	8	Economic	Local	SOLR	8	30
02/16	8	Economic	System	SOLR	11	61
02/16	9	Economic	Local	SOLR	108	
02/16	9	Economic	System	SOLR	182	904
02/16	9	Economic	System	WIND	10	52
02/16	10	Economic	Local	SOLR	335	
02/16	10	Economic	Local	WIND	11	
02/16	10	Economic	System	SOLR	834	1838
02/16	10	Economic	System	WIND	40	50
02/16	11	Economic	Local	SOLR	448	1608
02/16	11	Economic	Local	WIND	13	46
02/16	11	Economic	System	SOLR	888	
02/16	11	Economic	System	WIND	34	
02/16	12	Economic	Local	SOLR	0	
02/16	12	Economic	System	SOLR	1765	1869
02/16	12	Economic	System	WIND	45	45
02/16	13	Economic	Local	SOLR	8	22
02/16	13	Economic	System	SOLR	1902	1915
02/16	13	Economic	System	WIND	46	46
02/16	14	Economic	Local	SOLR	20	22
02/16	14	Economic	System	SOLR	2059	2218
02/16	14	Economic	System	WIND	85	156
02/16	15	Economic	Local	SOLR	185	14
02/16	15	Economic	Local	WIND	4	
02/16	15	Economic	System	SOLR	1910	2230
02/16	15	Economic	System	WIND	42	47
02/16	16	Economic	Local	SOLR	321	
02/16	16	Economic	Local	WIND	16	
02/16	16	Economic	System	SOLR	511	1950
02/16	16	Economic	System	WIND	14	47

02/16	17	Economic	System	SOLR	62	436
02/16	17	Economic	System	WIND	2	7
02/16	23	Economic	Local	WIND	31	116
02/16	24	Economic	Local	WIND	46	102
02/16	24	Economic	System	WIND	0	4

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.