

Wind and Solar Curtailment February 26, 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.

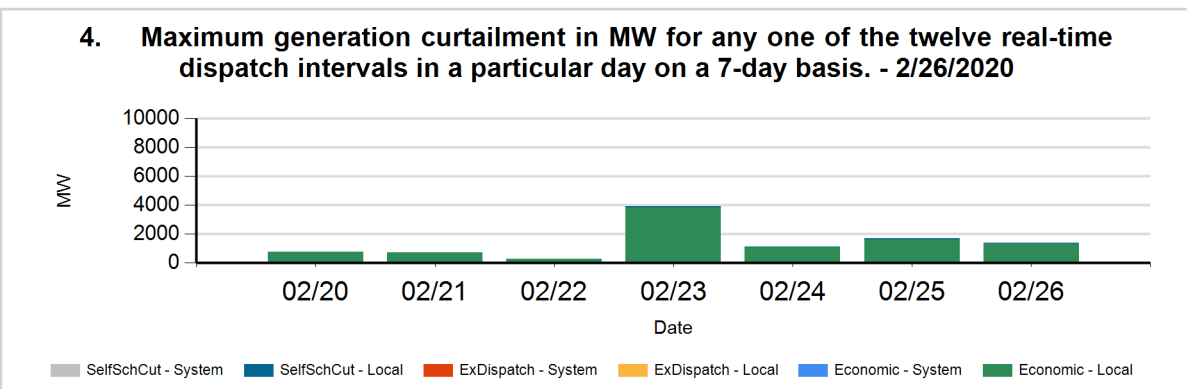
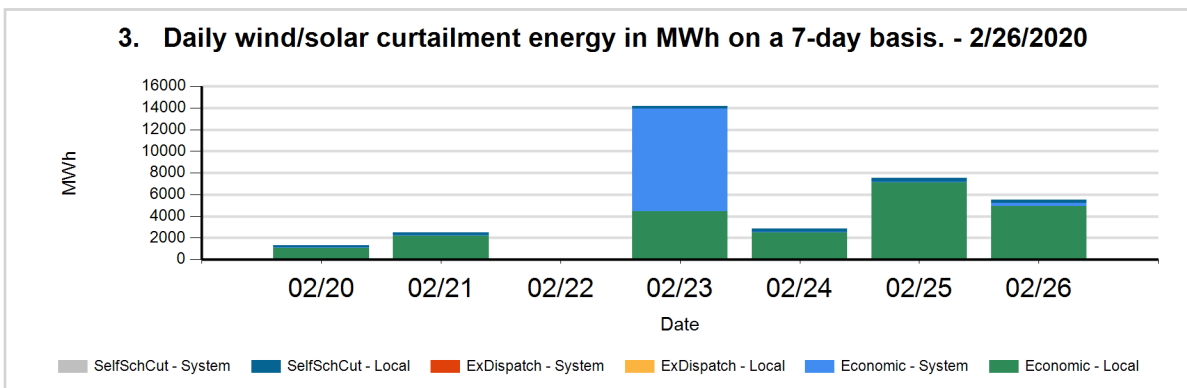
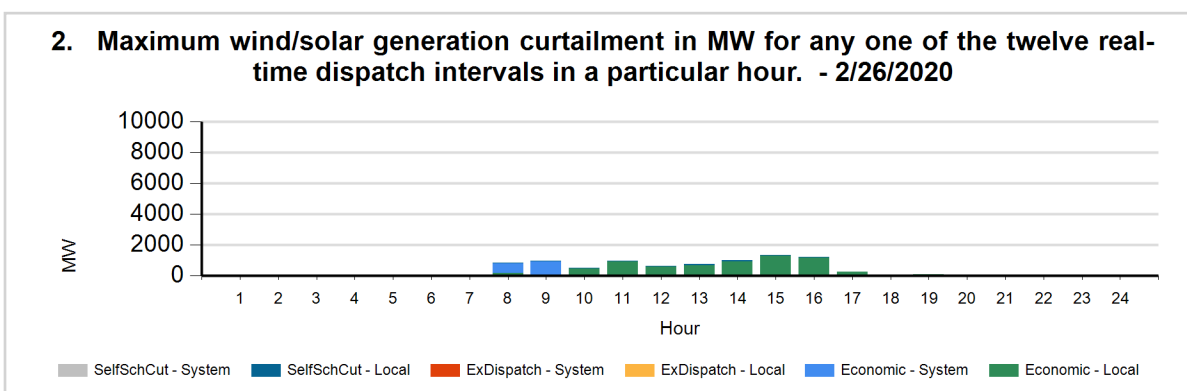
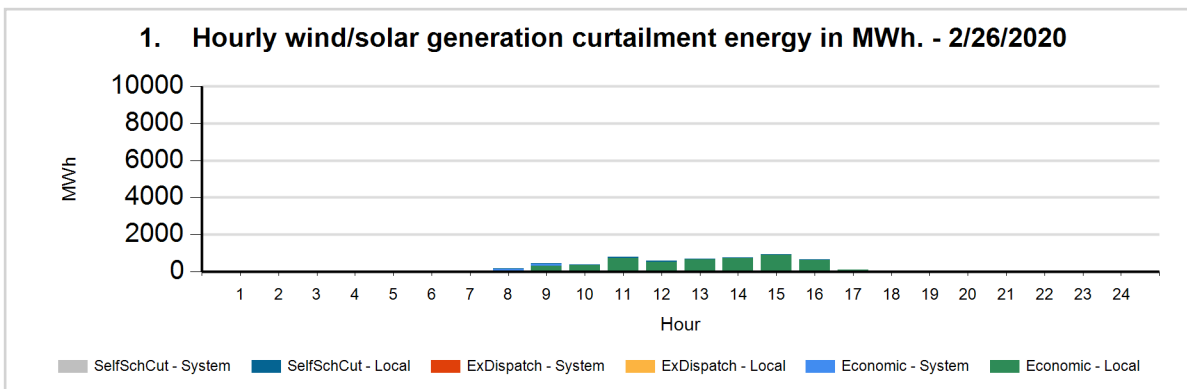
¹Only wind and solar resources can be reported in this manner because these resources have a forecast. Curtailment is defined as the difference between actual production and the forecast when actual production is less than the forecast.

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

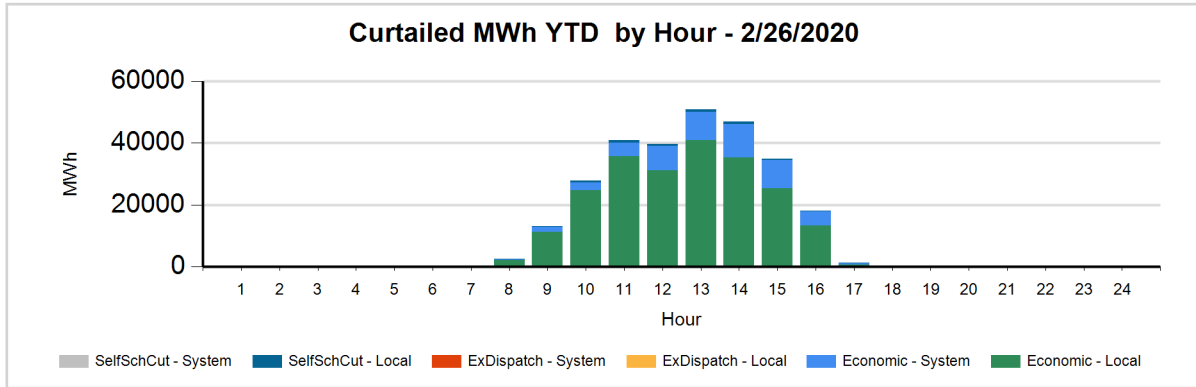
³Congestion occurs when available, least-cost energy cannot be delivered to some loads because transmission facilities do not have sufficient capacity to deliver the energy.

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

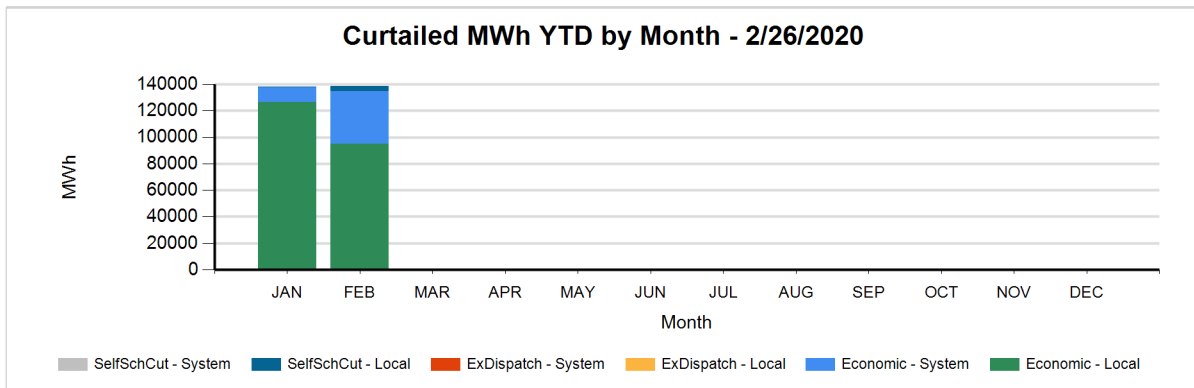
The following charts show the daily and 7-day wind and solar curtailment by category, if any.



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 - 2/26/2020
LocalEconomic	221,343
LocalSelfSchCut	4,484
SystemEconomic	50,822
TOTAL	276,648

Data used to produce hourly chart

DATE	HOUR	CURT TYPE	REASON	FUEL TYPE	CURTAILED MWH	CURTAILED MW
02/26	7	Economic	System	SOLR	4	14
02/26	8	Economic	Local	SOLR	30	158
02/26	8	Economic	Local	WIND	4	
02/26	8	Economic	System	SOLR	141	655
02/26	8	SelfSchCut	Local	SOLR	1	7
02/26	9	Economic	Local	SOLR	247	
02/26	9	Economic	Local	WIND	61	
02/26	9	Economic	System	SOLR	118	906
02/26	9	SelfSchCut	Local	SOLR	21	32
02/26	10	Economic	Local	SOLR	265	319
02/26	10	Economic	Local	WIND	70	128
02/26	10	SelfSchCut	Local	SOLR	25	50
02/26	11	Economic	Local	SOLR	610	784
02/26	11	Economic	Local	WIND	129	132
02/26	11	SelfSchCut	Local	SOLR	55	53
02/26	12	Economic	Local	SOLR	397	455
02/26	12	Economic	Local	WIND	122	120
02/26	12	Economic	System	SOLR	0	
02/26	12	SelfSchCut	Local	SOLR	50	51
02/26	13	Economic	Local	SOLR	531	558
02/26	13	Economic	Local	WIND	110	116
02/26	13	SelfSchCut	Local	SOLR	55	56
02/26	14	Economic	Local	SOLR	621	872
02/26	14	Economic	Local	WIND	100	61
02/26	14	SelfSchCut	Local	SOLR	54	53
02/26	15	Economic	Local	SOLR	818	1244
02/26	15	Economic	Local	WIND	73	63
02/26	15	SelfSchCut	Local	SOLR	41	42
02/26	16	Economic	Local	SOLR	535	1134
02/26	16	Economic	Local	WIND	103	60
02/26	16	Economic	System	SOLR	1	

02/26	16	SelfSchCut	Local	SOLR	16	15
02/26	17	Economic	Local	SOLR	78	165
02/26	17	Economic	Local	WIND	11	77
02/26	18	Economic	Local	WIND	1	6
02/26	19	Economic	Local	WIND	12	65
02/26	23	Economic	Local	WIND	5	27
02/26	24	Economic	Local	WIND	15	50

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.