

Wind and Solar Curtailment February 23, 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 oversupply.
- 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.

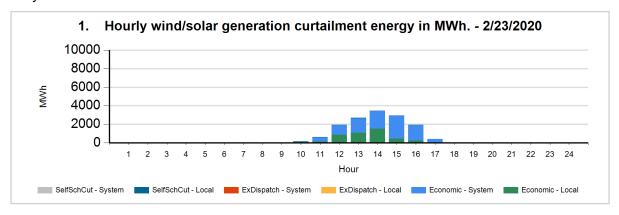
²The Renewables Watch report provides daily actual renewable production within the ISO grid. It is available at: http://www.caiso.com/green/renewableswatch.html.

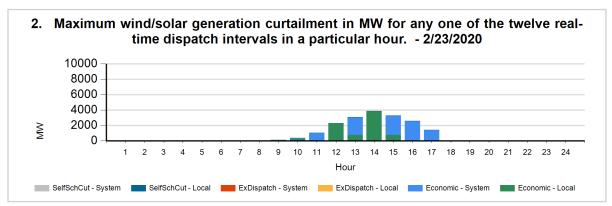
³Congestion occurs when available, least-cost energy cannot be delivered to some loads because transmission facilities do not have sufficient capacity to deliver the energy.

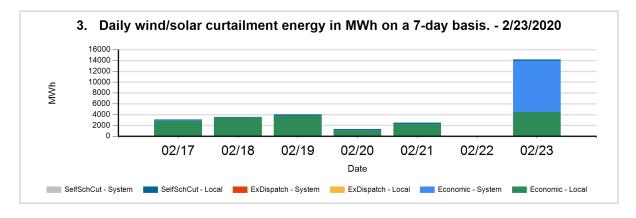
For more information on oversupply conditions, please see: https://www.caiso.com/Documents/FlexibleResourcesHelpRenewables FastFacts.pdf

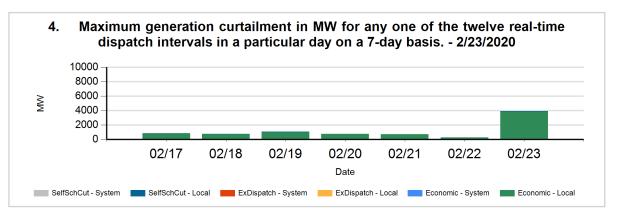


The following charts show the daily and 7-day wind and solar curtailment by category, if any.



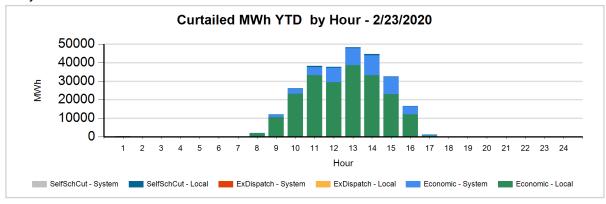




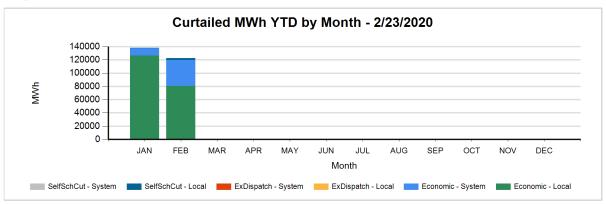




The following charts show hourly year to date wind and solar curtailment by category, if any.



The following charts show monthly year to date wind and solar curtailment by category, if any.



TYPE	YTD CURTAILED MWH - 2/23/2020
LocalEconomic	206,717
LocalSelfSchCut	3,472
SystemEconomic	50,525
TOTAL	260,714



Data used to produce hourly chart

DATE	HOU R	CURT TYPE	REASON	FUEL TYPE	CURTAILED MWH	CURTAILED MW
02/23	7	Economic	System	SOLR	1	8
02/23	9	Economic	Local	SOLR	17	107
02/23	9	Economic	System	SOLR	1	
02/23	10	Economic	Local	SOLR	100	252
02/23	10	Economic	System	SOLR	44	98
02/23	10	Economic	System	WIND	11	
02/23	10	SelfSchCut	Local	SOLR	13	25
02/23	11	Economic	Local	SOLR	147	21
02/23	11	Economic	System	SOLR	402	948
02/23	11	Economic	System	WIND	25	30
02/23	11	SelfSchCut	Local	SOLR	43	56
02/23	12	Economic	Local	SOLR	835	2184
02/23	12	Economic	Local	WIND	31	55
02/23	12	Economic	System	SOLR	988	
02/23	12	Economic	System	WIND	46	
02/23	12	SelfSchCut	Local	SOLR	50	62
02/23	13	Economic	Local	SOLR	1042	681
02/23	13	Economic	Local	WIND	37	59
02/23	13	Economic	System	SOLR	1481	2221
02/23	13	Economic	System	WIND	62	73
02/23	13	SelfSchCut	Local	SOLR	60	59
02/23	14	Economic	Local	SOLR	1445	3722
02/23	14	Economic	Local	WIND	74	99
02/23	14	Economic	System	SOLR	1858	
02/23	14	Economic	System	WIND	54	
02/23	14	SelfSchCut	Local	SOLR	17	62
02/23	15	Economic	Local	SOLR	419	667
02/23	15	Economic	Local	WIND	23	59
02/23	15	Economic	System	SOLR	2390	2417
02/23	15	Economic	System	WIND	79	139
02/23	15	SelfSchCut	Local	SOLR	37	13



02/23	16	Economic	Local	SOLR	244	13
02/23	16	Economic	Local	WIND	3	
02/23	16	Economic	System	SOLR	1628	2461
02/23	16	Economic	System	WIND	38	73
02/23	16	SelfSchCut	Local	SOLR	12	26
02/23	17	Economic	System	SOLR	397	1371
02/23	17	Economic	System	WIND	9	30
02/23	17	SelfSchCut	Local	SOLR	0	3
02/23	20	Economic	System	WIND	0	5

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.