

Wind and Solar Curtailment January 11, 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.

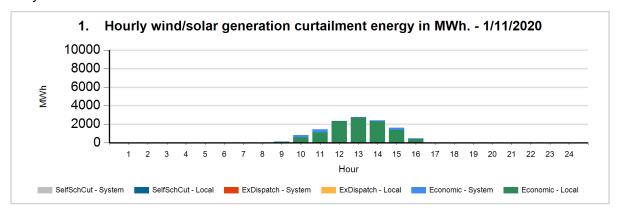
²The Renewables Watch report provides daily actual renewable production within the ISO grid. It is available at: http://www.caiso.com/green/renewableswatch.html.

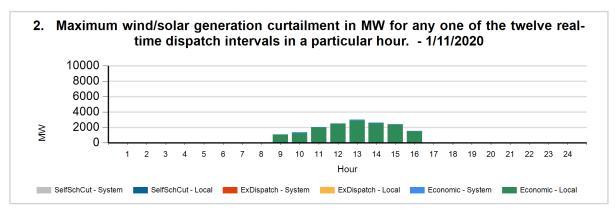
³Congestion occurs when available, least-cost energy cannot be delivered to some loads because transmission facilities do not have sufficient capacity to deliver the energy.

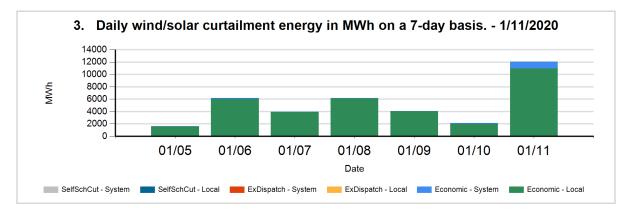
For more information on oversupply conditions, please see: https://www.caiso.com/Documents/FlexibleResourcesHelpRenewables FastFacts.pdf

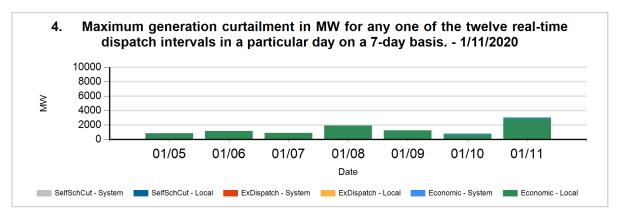


The following charts show the daily and 7-day wind and solar curtailment by category, if any.



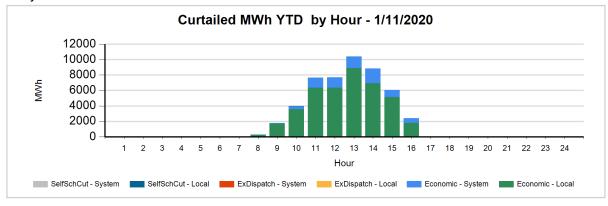




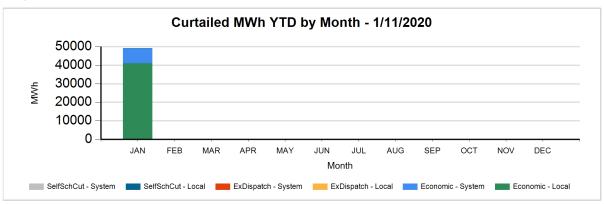




The following charts show hourly year to date wind and solar curtailment by category, if any.



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



TYPE	YTD CURTAILED MWH - 1/11/2020
LocalEconomic	41,000
LocalSelfSchCut	56
SystemEconomic	8,055
TOTAL	49,111



Data used to produce hourly chart

DATE	HOU R	CURT TYPE	REASON	FUEL TYPE	CURTAILED MWH	CURTAILED MW
01/11	8	Economic	System	SOLR	3	22
01/11	9	Economic	Local	SOLR	124	1041
01/11	9	Economic	Local	WIND	5	38
01/11	10	Economic	Local	SOLR	532	1215
01/11	10	Economic	Local	WIND	41	50
01/11	10	Economic	System	SOLR	234	84
01/11	10	Economic	System	WIND	18	19
01/11	11	Economic	Local	SOLR	1037	1700
01/11	11	Economic	Local	WIND	68	318
01/11	11	Economic	System	SOLR	295	11
01/11	12	Economic	Local	SOLR	1971	2118
01/11	12	Economic	Local	WIND	362	363
01/11	12	SelfSchCut	Local	SOLR	4	13
01/11	13	Economic	Local	SOLR	2307	2480
01/11	13	Economic	Local	WIND	372	381
01/11	13	Economic	System	SOLR	73	131
01/11	13	SelfSchCut	Local	SOLR	5	13
01/11	14	Economic	Local	SOLR	2081	2206
01/11	14	Economic	Local	WIND	243	347
01/11	14	Economic	System	SOLR	107	68
01/11	15	Economic	Local	SOLR	1283	2099
01/11	15	Economic	Local	WIND	108	295
01/11	15	Economic	System	SOLR	202	43
01/11	16	Economic	Local	SOLR	409	1489
01/11	16	Economic	Local	WIND	11	24
01/11	16	Economic	System	SOLR	71	14

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.

