

Wind and Solar Curtailment December 11, 2021

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.

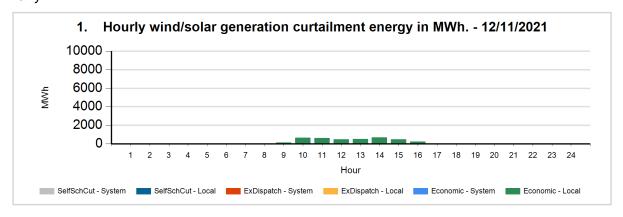
²The Renewables Watch report provides daily actual renewable production within the ISO grid. It is available at: http://www.caiso.com/green/renewableswatch.html.

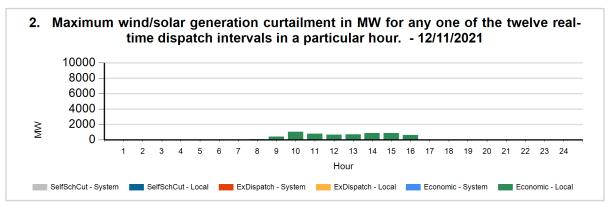
³Congestion occurs when available, least-cost energy cannot be delivered to some loads because transmission facilities do not have sufficient capacity to deliver the energy.

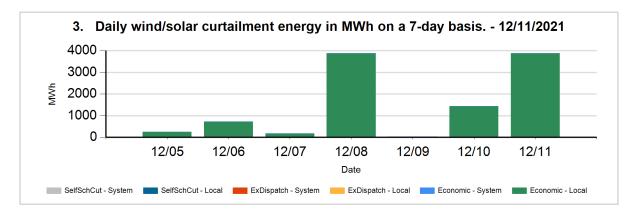
For more information on oversupply conditions, please see: https://www.caiso.com/Documents/FlexibleResourcesHelpRenewables FastFacts.pdf

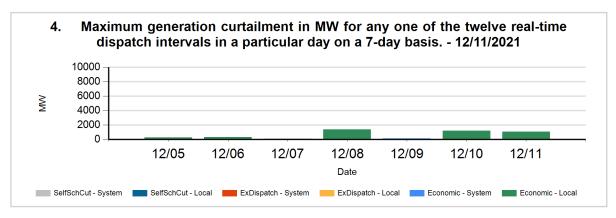


The following charts show the daily and 7-day wind and solar curtailment by category, if any.



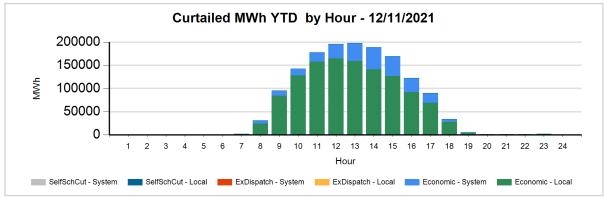




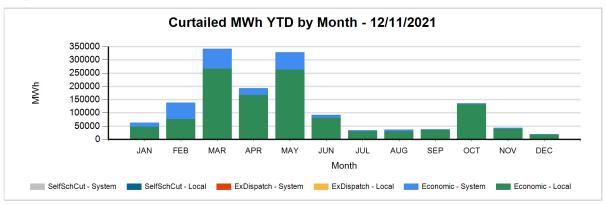




The following charts show hourly year to date wind and solar curtailment by category, if any.



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



TYPE	YTD CURTAILED MWH - 12/11/2021
LocalEconomic	1,185,766
LocalSelfSchCut	6,330
SystemEconomic	268,266
TOTAL	1,460,363



Data used to produce hourly chart

CURTAILED MW	CURTAILED MWH	FUEL TYPE	REASON	CURT TYPE	HOU R	DATE
22	10	WIND	Local	Economic	7	12/11
5	7	SOLR	Local	Economic	8	12/11
	20	WIND	Local	Economic	8	12/11
	3	SOLR	System	Economic	8	12/11
359	93	SOLR	Local	Economic	9	12/11
	44	WIND	Local	Economic	9	12/11
	0	SOLR	System	Economic	9	12/11
	606	SOLR	Local	Economic	10	12/11
	38	WIND	Local	Economic	10	12/11
738	570	SOLR	Local	Economic	11	12/11
48	45	WIND	Local	Economic	11	12/11
611	437	SOLR	Local	Economic	12	12/11
43	46	WIND	Local	Economic	12	12/11
683	491	SOLR	Local	Economic	13	12/11
19	31	WIND	Local	Economic	13	12/11
847	666	SOLR	Local	Economic	14	12/11
45	37	WIND	Local	Economic	14	12/11
830	455	SOLR	Local	Economic	15	12/11
	36	WIND	Local	Economic	15	12/11
	0	SOLR	System	Economic	15	12/11
597	218	SOLR	Local	Economic	16	12/11
	15	WIND	Local	Economic	16	12/11
	0	SOLR	System	Economic	16	12/11
	0	SOLR	Local	Economic	17	12/11
7	1	WIND	Local	Economic	17	12/11
9	4	WIND	Local	Economic	18	12/11
19	6	WIND	Local	Economic	19	12/11

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.

