

Wind and Solar Curtailment October 24, 2019

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.

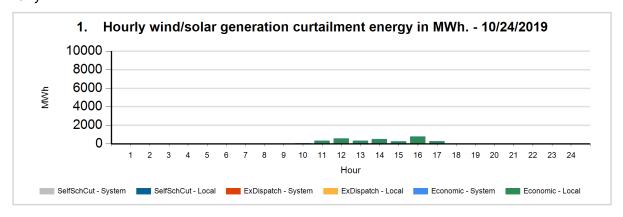
²The Renewables Watch report provides daily actual renewable production within the ISO grid. It is available at: http://www.caiso.com/green/renewableswatch.html.

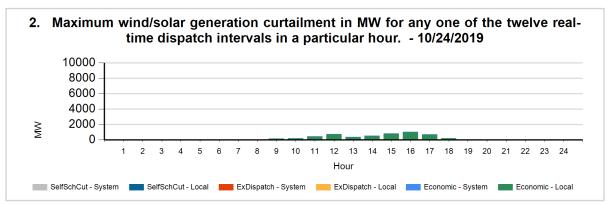
³Congestion occurs when available, least-cost energy cannot be delivered to some loads because transmission facilities do not have sufficient capacity to deliver the energy.

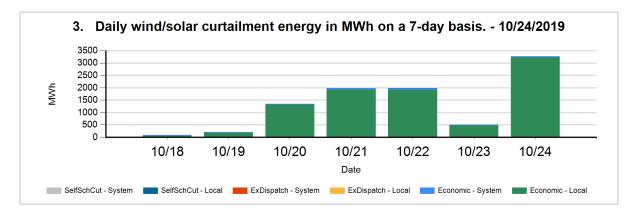
For more information on oversupply conditions, please see: https://www.caiso.com/Documents/FlexibleResourcesHelpRenewables FastFacts.pdf

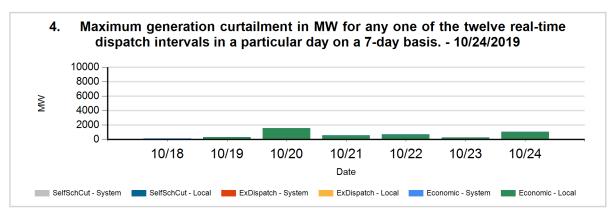


The following charts show the daily and 7-day wind and solar curtailment by category, if any.



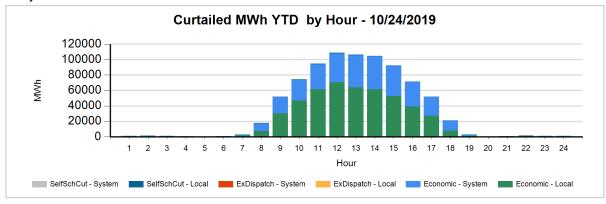




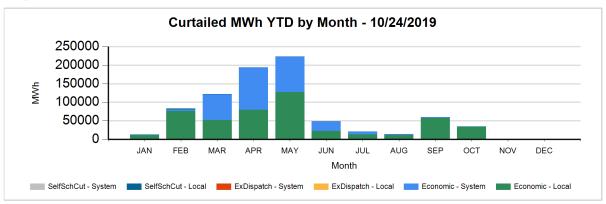




The following charts show hourly year to date wind and solar curtailment by category, if any.



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



TYPE	YTD CURTAILED MWH - 10/24/2019
LocalEconomic	482,327
LocalSelfSchCut	6,169
SystemEconomic	324,178
TOTAL	812,674



Data used to produce hourly chart

RTAILED MW	CURTAILED MWH	FUEL TYPE	REASON	CURT TYPE	HOU R	DATE
20	4	SOLR	Local	Economic	8	10/24
158	28	SOLR	Local	Economic	9	10/24
210	58	SOLR	Local	Economic	10	10/24
Ę	3	SOLR	System	Economic	10	10/24
444	344	SOLR	Local	Economic	11	10/24
8	4	WIND	Local	Economic	11	10/24
3	4	SOLR	System	Economic	11	10/24
757	585	SOLR	Local	Economic	12	10/24
Ę	7	WIND	Local	Economic	12	10/24
3	3	SOLR	System	Economic	12	10/24
352	333	SOLR	Local	Economic	13	10/24
10	3	WIND	Local	Economic	13	10/24
4	3	SOLR	System	Economic	13	10/24
540	503	SOLR	Local	Economic	14	10/24
4	3	WIND	Local	Economic	14	10/24
;	3	SOLR	System	Economic	14	10/24
784	245	SOLR	Local	Economic	15	10/24
48	15	WIND	Local	Economic	15	10/24
4	2	SOLR	System	Economic	15	10/24
1042	761	SOLR	Local	Economic	16	10/24
4	32	WIND	Local	Economic	16	10/24
4	4	SOLR	System	Economic	16	10/24
657	267	SOLR	Local	Economic	17	10/24
4	2	WIND	Local	Economic	17	10/24
3	2	SOLR	System	Economic	17	10/24
30	3	SOLR	Local	SelfSchCut	17	10/24
195	36	SOLR	Local	Economic	18	10/24

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.

