

Wind and Solar Curtailment March 23, 2023

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:

- 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.

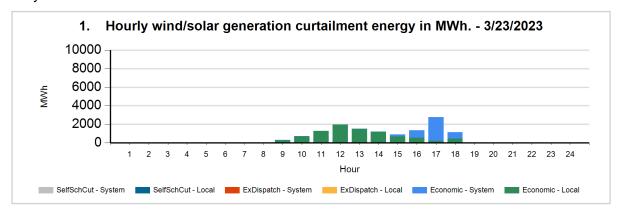
²The Renewables Watch report provides daily actual renewable production within the ISO grid. It is available at: http://www.caiso.com/green/renewableswatch.html.

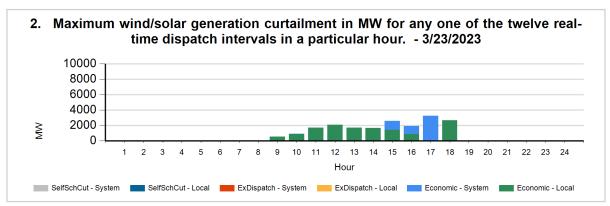
³Congestion occurs when available, least-cost energy cannot be delivered to some loads because transmission facilities do not have sufficient capacity to deliver the energy.

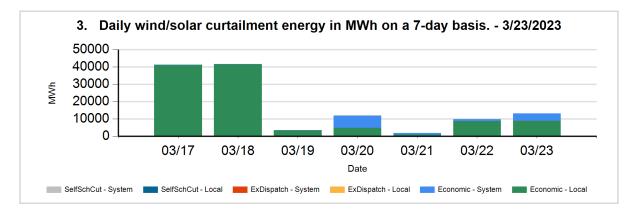
For more information on oversupply conditions, please see: https://www.caiso.com/Documents/FlexibleResourcesHelpRenewables FastFacts.pdf

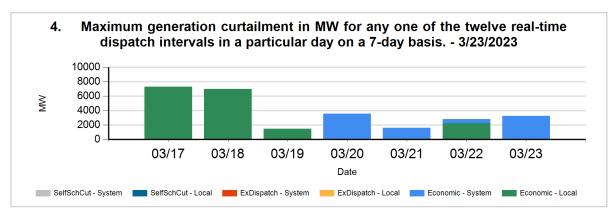


The following charts show the daily and 7-day wind and solar curtailment by category, if any.



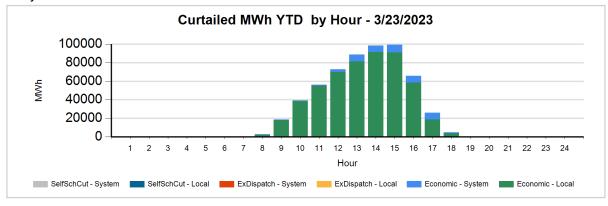




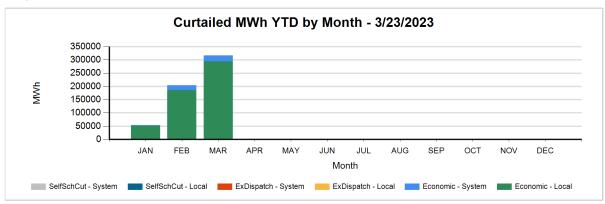




The following charts show hourly year to date wind and solar curtailment by category, if any.



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



TYPE	YTD CURTAILED MWH - 3/23/2023
LocalEconomic	528,569
LocalSelfSchCut	12
SystemEconomic	44,363
TOTAL	572,944



Data used to produce hourly chart



TAILED MW	CURTAILED MWH CUR	FUEL TYPE	REASON	CURT TYPE	HOU R	DATE
32	9	SOLR	System	B Economic	8	03/23
541	316	SOLR	Local	9 Economic	9	03/23
	8	SOLR	System	9 Economic	9	03/23
896	734	SOLR	Local	Economic	10	03/23
7	1	SOLR	System	Economic	10	03/23
1727	1287	SOLR	Local	1 Economic	11	03/23
	0	SOLR	System	1 Economic	11	03/23
2087	1959	SOLR	Local	2 Economic	12	03/23
	0	SOLR	System	2 Economic	12	03/23
	0	WIND	System	2 Economic	12	03/23
1678	1521	SOLR	Local	3 Economic	13	03/23
36	12	WIND	Local	3 Economic	13	03/23
	2	SOLR	System	3 Economic	13	03/23
1651	1198	SOLR	Local	4 Economic	14	03/23
	1	SOLR	System	4 Economic	14	03/23
	1	WIND	System	4 Economic	14	03/23
1344	628	SOLR	Local	5 Economic	15	03/23
79	57	WIND	Local	5 Economic	15	03/23
945	144	SOLR	System	5 Economic	15	03/23
203	75	WIND	System	5 Economic	15	03/23
778	469	SOLR	Local	6 Economic	16	03/23
80	83	WIND	Local	6 Economic	16	03/23
822	559	SOLR	System	6 Economic	16	03/23
229	223	WIND	System	6 Economic	16	03/23
16	162	SOLR	Local	7 Economic	17	03/23
	29	WIND	Local	7 Economic	17	03/23
2637	2221	SOLR	System	7 Economic	17	03/23
594	368	WIND	System	7 Economic	17	03/23
2354	385	SOLR	Local	B Economic	18	03/23
331	73	WIND	Local	B Economic	18	03/23
	537	SOLR	System	B Economic	18	03/23
	128	WIND	System	B Economic	18	03/23
2	0	SOLR	System	9 Economic	19	03/23



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.