

Wind and Solar Curtailment February 19, 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:

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 oversupply⁴.
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.

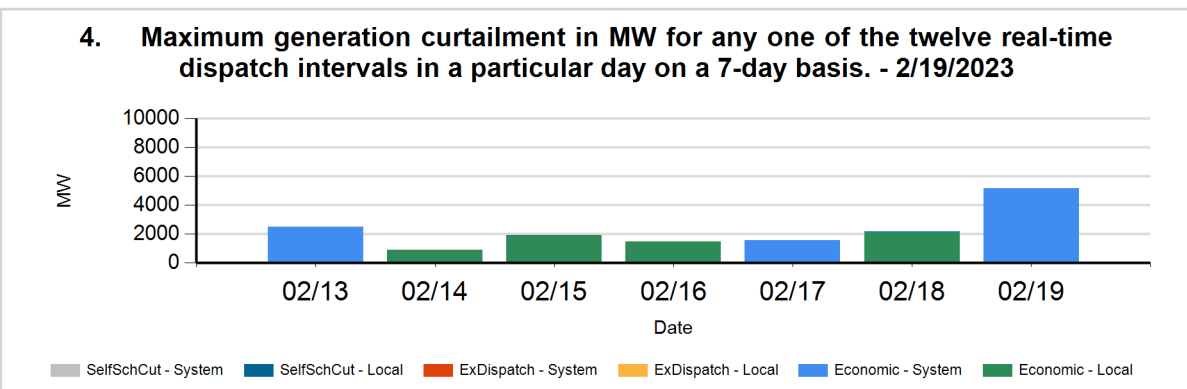
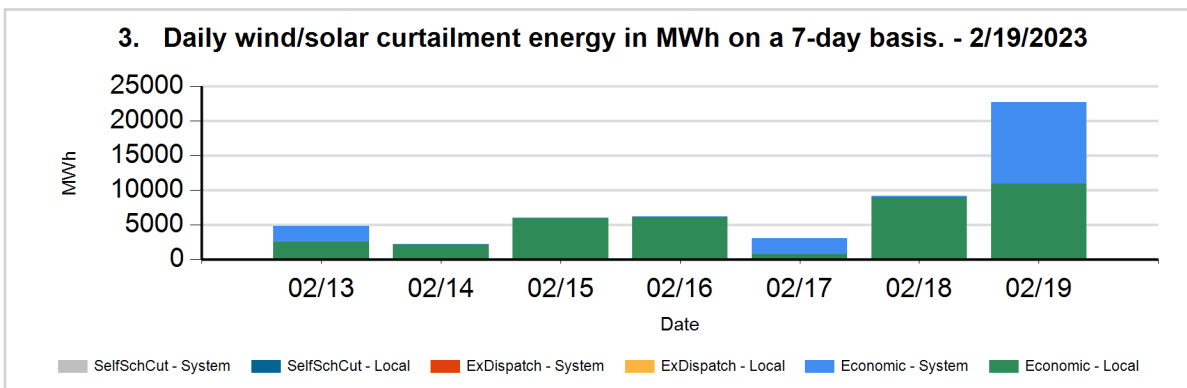
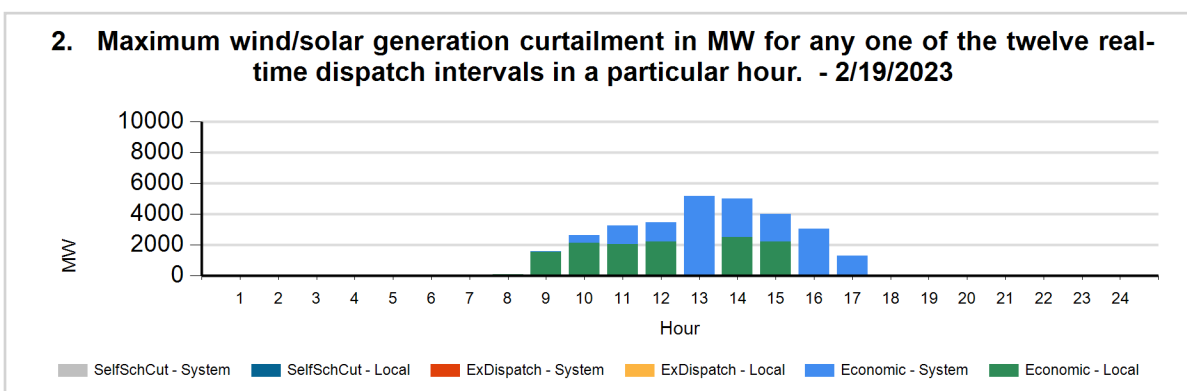
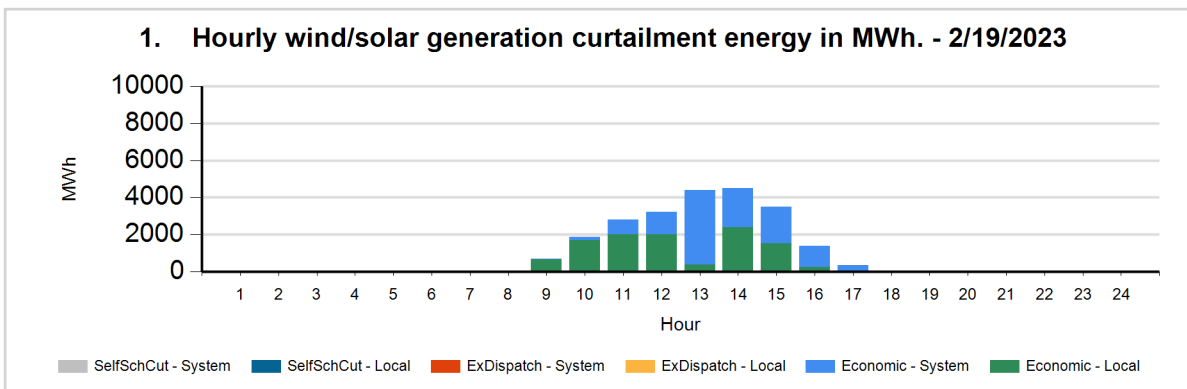
¹Only wind and solar resources can be reported in this manner because these resources have a forecast. Curtailment is defined as the difference between actual production and the forecast when actual production is less than the forecast.

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

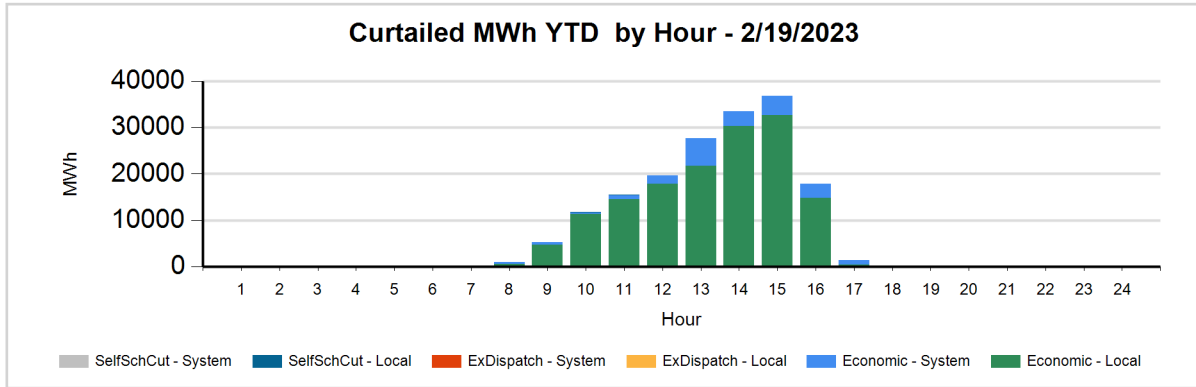
³Congestion occurs when available, least-cost energy cannot be delivered to some loads because transmission facilities do not have sufficient capacity to deliver the energy.

⁴For more information on oversupply conditions, please see: https://www.caiso.com/Documents/FlexibleResourcesHelpRenewables_FastFacts.pdf

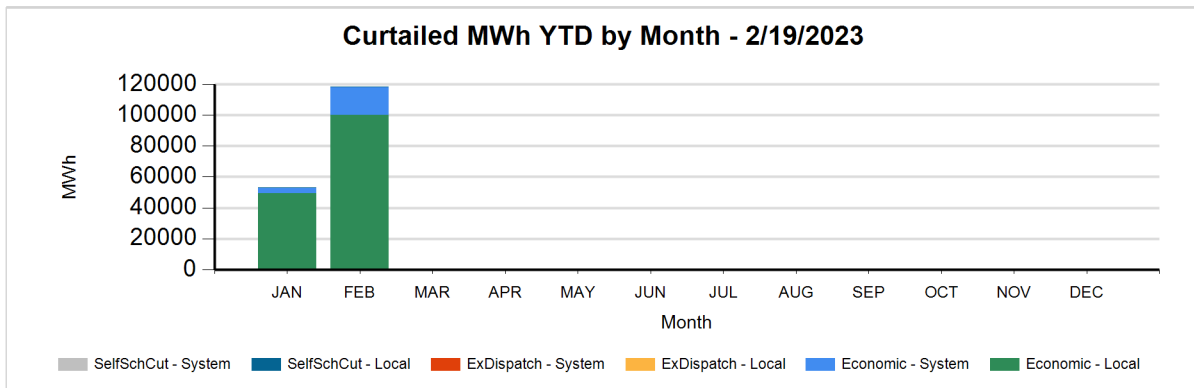
The following charts show the daily and 7-day wind and solar curtailment by category, if any.



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 - 2/19/2023
LocalEconomic	149,384
LocalSelfSchCut	7
SystemEconomic	21,953
TOTAL	171,343

Data used to produce hourly chart

DATE	HOUR	CURT TYPE	REASON	FUEL TYPE	CURTAILED MWH	CURTAILED MW
02/19	8	Economic	Local	SOLR	12	91
02/19	8	Economic	System	SOLR	0	
02/19	9	Economic	Local	SOLR	671	1558
02/19	9	Economic	Local	WIND	2	6
02/19	9	Economic	System	SOLR	1	11
02/19	10	Economic	Local	SOLR	1681	2105
02/19	10	Economic	Local	WIND	20	18
02/19	10	Economic	System	SOLR	148	489
02/19	10	Economic	System	WIND	2	5
02/19	11	Economic	Local	SOLR	1993	2005
02/19	11	Economic	Local	WIND	14	18
02/19	11	Economic	System	SOLR	784	1216
02/19	11	Economic	System	WIND	18	31
02/19	12	Economic	Local	SOLR	2003	2172
02/19	12	Economic	Local	WIND	18	35
02/19	12	Economic	System	SOLR	1166	1203
02/19	12	Economic	System	WIND	31	39
02/19	13	Economic	Local	SOLR	382	40
02/19	13	Economic	Local	WIND	12	
02/19	13	Economic	System	SOLR	3860	4966
02/19	13	Economic	System	WIND	134	163
02/19	14	Economic	Local	SOLR	2340	2463
02/19	14	Economic	Local	WIND	30	32
02/19	14	Economic	System	SOLR	2007	2334
02/19	14	Economic	System	WIND	136	163
02/19	15	Economic	Local	SOLR	1508	2174
02/19	15	Economic	Local	WIND	15	23
02/19	15	Economic	System	SOLR	1849	1684
02/19	15	Economic	System	WIND	112	128
02/19	16	Economic	Local	SOLR	229	18
02/19	16	Economic	Local	WIND	3	

02/19	16	Economic	System	SOLR	1103	2927
02/19	16	Economic	System	WIND	34	87
02/19	17	Economic	System	SOLR	313	1251
02/19	17	Economic	System	WIND	14	36

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.