

Wind and Solar Curtailment January 27, 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.

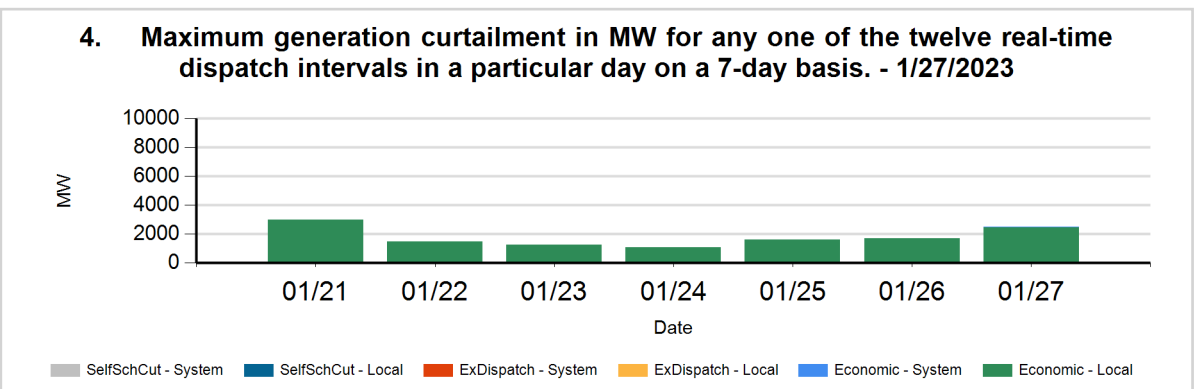
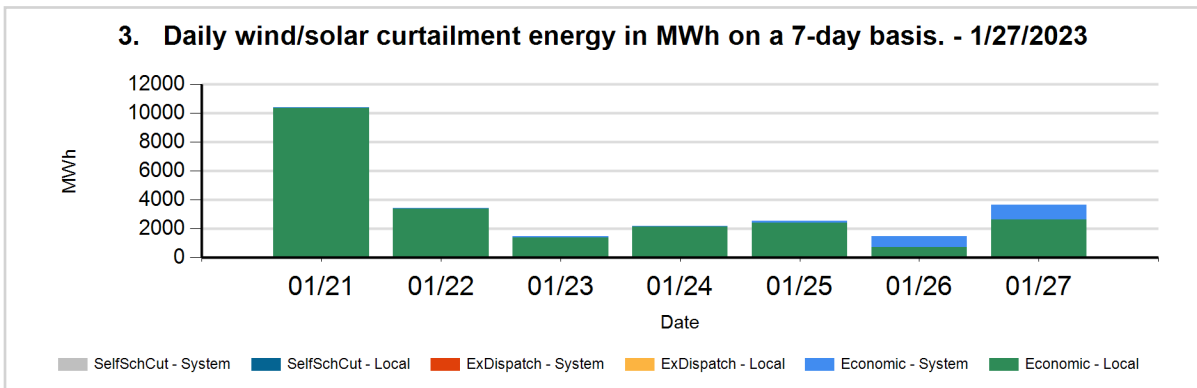
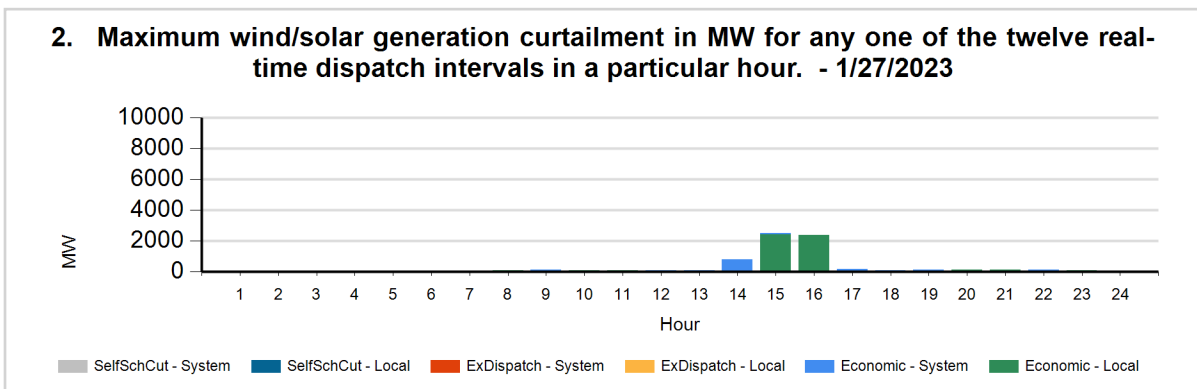
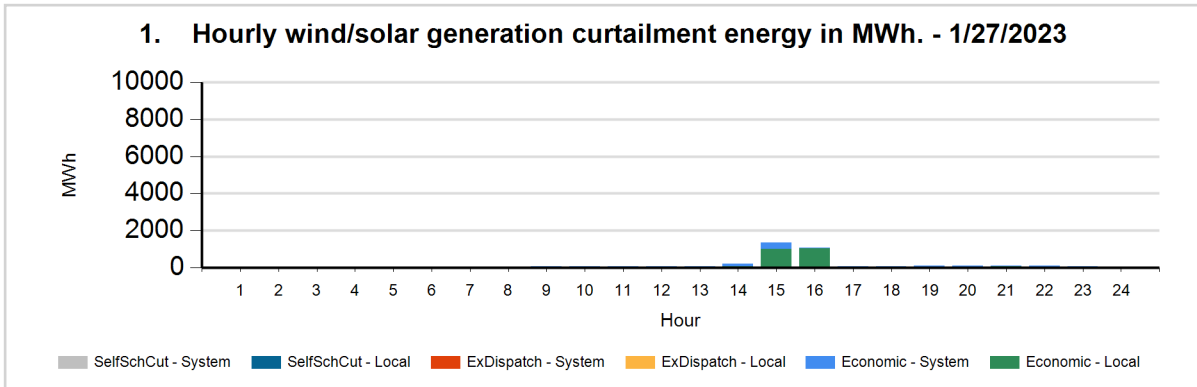
²The Renewables Watch report provides daily actual renewable production within the ISO grid. It is available at: <http://www.caiso.com/green/renewableswatch.html>.

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.

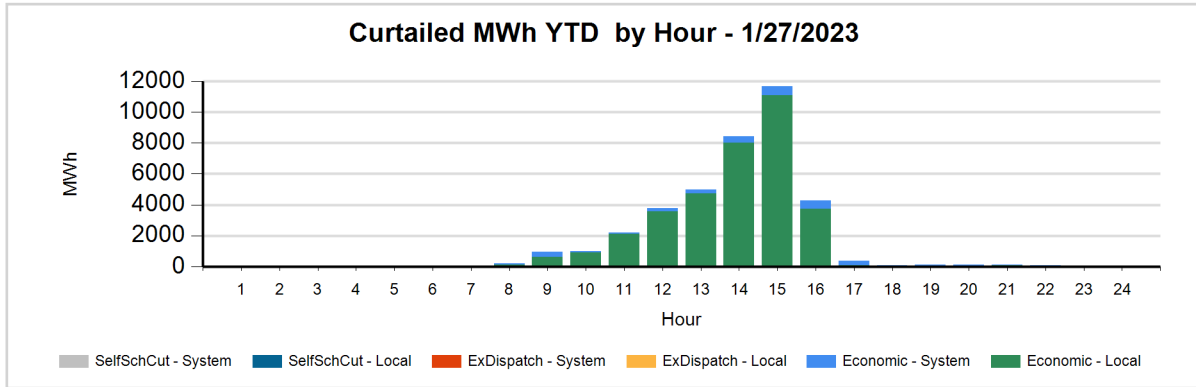
⁴For more information on oversupply conditions, please see:

https://www.caiso.com/Documents/FlexibleResourcesHelpRenewables_FastFacts.pdf

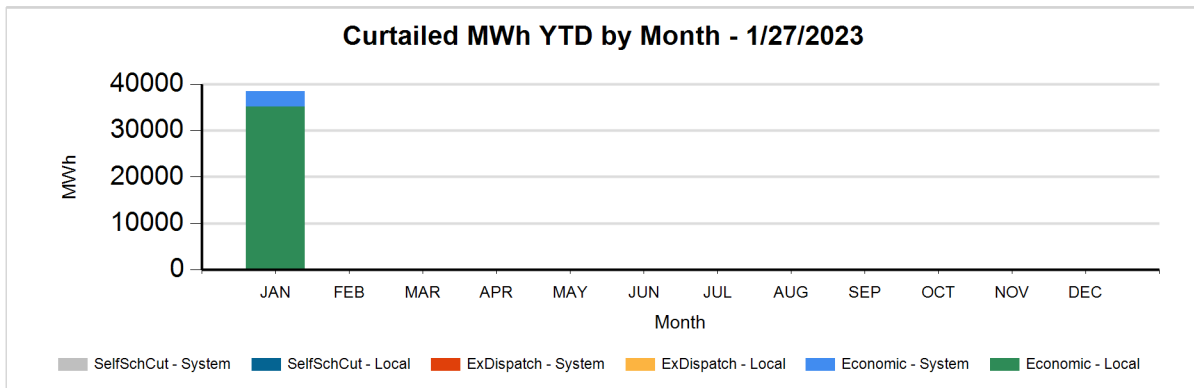
The following charts show the daily and 7-day wind and solar curtailment by category, if any.



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 - 1/27/2023
LocalEconomic	35,197
LocalSelfSchCut	0
SystemEconomic	3,259
TOTAL	38,457

Data used to produce hourly chart

DATE	HOUR	CURT TYPE	REASON	FUEL TYPE	CURTAILED MWH	CURTAILED MW
01/27	5	Economic	Local	WIND	0	
01/27	5	Economic	System	WIND	2	8
01/27	6	Economic	System	WIND	4	9
01/27	8	Economic	Local	SOLR	19	53
01/27	8	Economic	Local	WIND	2	6
01/27	8	Economic	System	SOLR	9	
01/27	8	Economic	System	WIND	1	
01/27	9	Economic	Local	SOLR	28	
01/27	9	Economic	Local	WIND	6	
01/27	9	Economic	System	SOLR	33	89
01/27	9	Economic	System	WIND	7	19
01/27	10	Economic	Local	SOLR	41	48
01/27	10	Economic	Local	WIND	6	22
01/27	10	Economic	System	SOLR	1	
01/27	10	Economic	System	WIND	7	
01/27	11	Economic	Local	SOLR	47	51
01/27	11	Economic	Local	WIND	3	8
01/27	11	Economic	System	SOLR	0	
01/27	11	Economic	System	WIND	3	
01/27	12	Economic	Local	SOLR	47	48
01/27	12	Economic	Local	WIND	3	
01/27	12	Economic	System	SOLR	0	
01/27	12	Economic	System	WIND	6	11
01/27	13	Economic	Local	SOLR	49	54
01/27	13	Economic	Local	WIND	6	
01/27	13	Economic	System	WIND	5	14
01/27	14	Economic	Local	SOLR	74	46
01/27	14	Economic	Local	WIND	8	
01/27	14	Economic	System	SOLR	127	705
01/27	14	Economic	System	WIND	7	24
01/27	15	Economic	Local	SOLR	963	2335

01/27	15	Economic	Local	WIND	35	80
01/27	15	Economic	System	SOLR	306	85
01/27	15	Economic	System	WIND	27	
01/27	16	Economic	Local	SOLR	986	2299
01/27	16	Economic	Local	WIND	70	79
01/27	16	Economic	System	SOLR	28	
01/27	17	Economic	Local	SOLR	6	
01/27	17	Economic	Local	WIND	22	
01/27	17	Economic	System	SOLR	21	80
01/27	17	Economic	System	WIND	32	63
01/27	18	Economic	Local	WIND	46	
01/27	18	Economic	System	WIND	23	90
01/27	19	Economic	Local	WIND	28	
01/27	19	Economic	System	WIND	82	114
01/27	20	Economic	Local	WIND	19	117
01/27	20	Economic	System	WIND	93	
01/27	21	Economic	Local	WIND	77	127
01/27	21	Economic	System	WIND	38	
01/27	22	Economic	Local	WIND	30	
01/27	22	Economic	System	WIND	58	111
01/27	23	Economic	Local	WIND	12	72
01/27	23	Economic	System	WIND	43	
01/27	24	Economic	Local	WIND	13	
01/27	24	Economic	System	WIND	24	51

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.

