

Wind and Solar Curtailment May 08, 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.

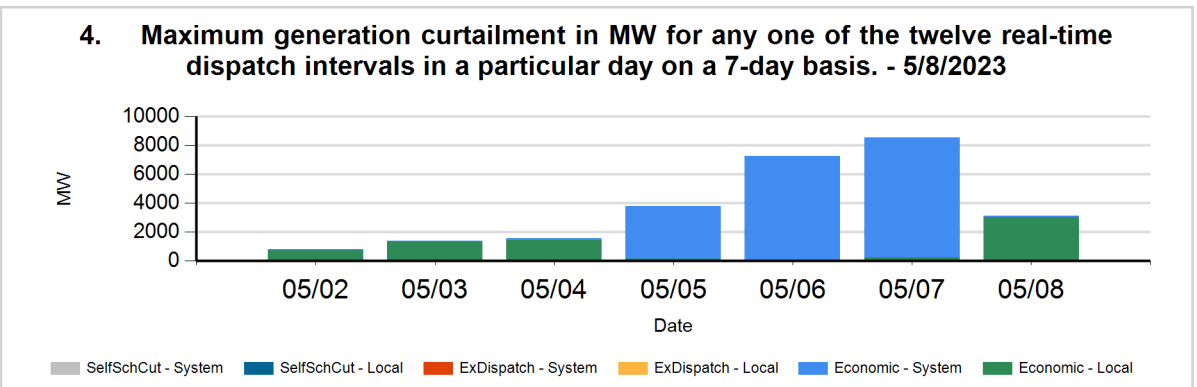
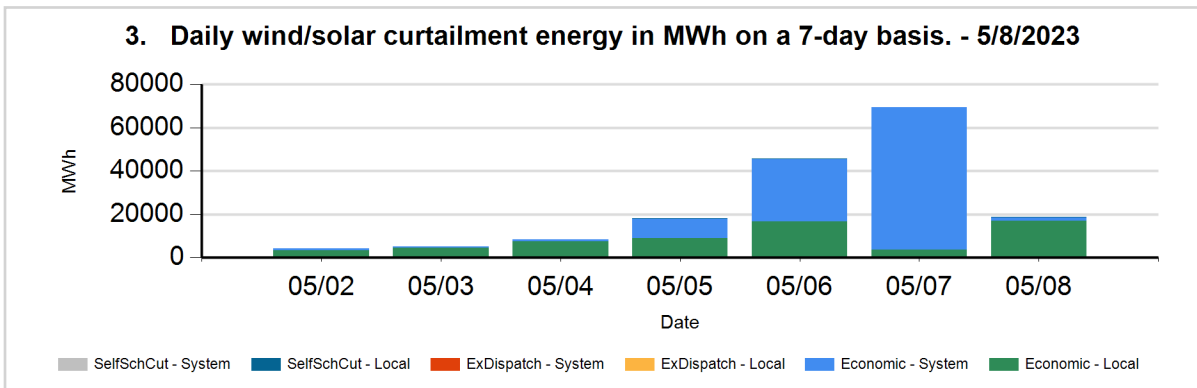
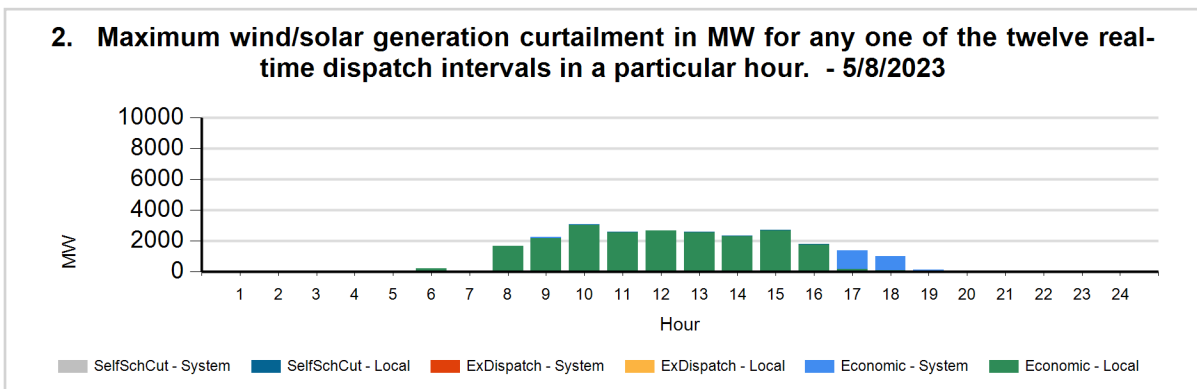
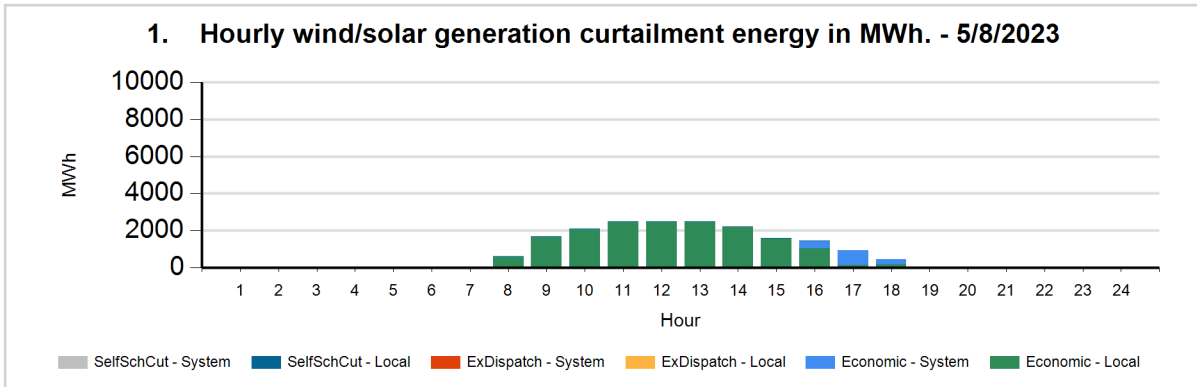
¹Only wind and solar resources can be reported in this manner because these resources have a forecast. Curtailment is defined as the difference between actual production and the forecast when actual production is less than the forecast.

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

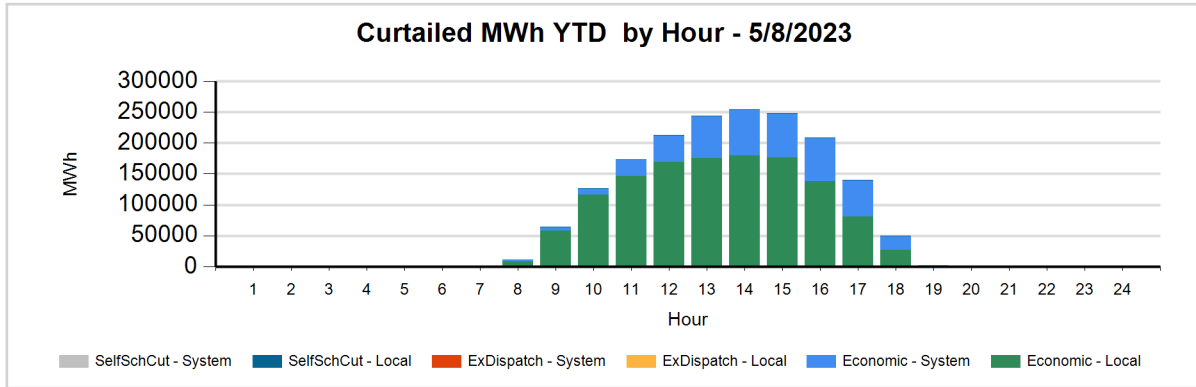
³Congestion occurs when available, least-cost energy cannot be delivered to some loads because transmission facilities do not have sufficient capacity to deliver the energy.

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

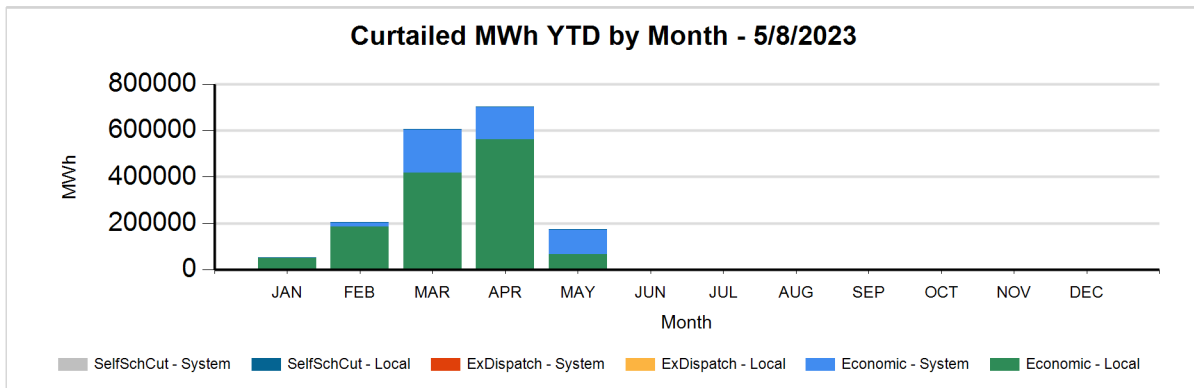
The following charts show the daily and 7-day wind and solar curtailment by category, if any.



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 - 5/8/2023
LocalEconomic	1,277,961
LocalSelfSchCut	420
SystemEconomic	461,136
TOTAL	1,739,516

Data used to produce hourly chart

DATE	HOUR	CURT TYPE	REASON	FUEL TYPE	CURTAILED MWH	CURTAILED MW
05/08	3	Economic	Local	WIND	4	40
05/08	3	Economic	System	WIND	5	
05/08	6	Economic	Local	WIND	44	210
05/08	8	Economic	Local	SOLR	503	1407
05/08	8	Economic	Local	WIND	113	249
05/08	8	Economic	System	WIND	5	
05/08	9	Economic	Local	SOLR	1385	1907
05/08	9	Economic	Local	WIND	303	277
05/08	9	Economic	System	SOLR	20	84
05/08	10	Economic	Local	SOLR	1779	2768
05/08	10	Economic	Local	WIND	302	253
05/08	10	Economic	System	SOLR	20	79
05/08	11	Economic	Local	SOLR	2209	2339
05/08	11	Economic	Local	WIND	260	262
05/08	11	Economic	System	SOLR	22	
05/08	11	SelfSchCut	Local	SOLR	1	2
05/08	12	Economic	Local	SOLR	2235	2434
05/08	12	Economic	Local	WIND	256	250
05/08	12	SelfSchCut	Local	SOLR	9	
05/08	13	Economic	Local	SOLR	2237	2326
05/08	13	Economic	Local	WIND	244	247
05/08	13	SelfSchCut	Local	SOLR	4	7
05/08	14	Economic	Local	SOLR	1960	2051
05/08	14	Economic	Local	WIND	239	240
05/08	14	Economic	System	SOLR	3	23
05/08	14	SelfSchCut	Local	SOLR	7	11
05/08	15	Economic	Local	SOLR	1438	2444
05/08	15	Economic	Local	WIND	159	242
05/08	15	SelfSchCut	Local	SOLR	5	5
05/08	16	Economic	Local	SOLR	914	1568
05/08	16	Economic	Local	WIND	119	237

05/08	16	Economic	System	SOLR	269	
05/08	16	Economic	System	WIND	153	
05/08	16	SelfSchCut	Local	SOLR	3	5
05/08	17	Economic	Local	SOLR	123	181
05/08	17	Economic	System	SOLR	543	849
05/08	17	Economic	System	WIND	260	342
05/08	18	Economic	Local	SOLR	129	87
05/08	18	Economic	Local	WIND	39	
05/08	18	Economic	System	SOLR	178	684
05/08	18	Economic	System	WIND	83	212
05/08	19	Economic	Local	SOLR	3	18
05/08	19	Economic	System	SOLR	3	17
05/08	19	Economic	System	WIND	8	99

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.