

Wind and Solar Curtailment May 08, 2022

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.

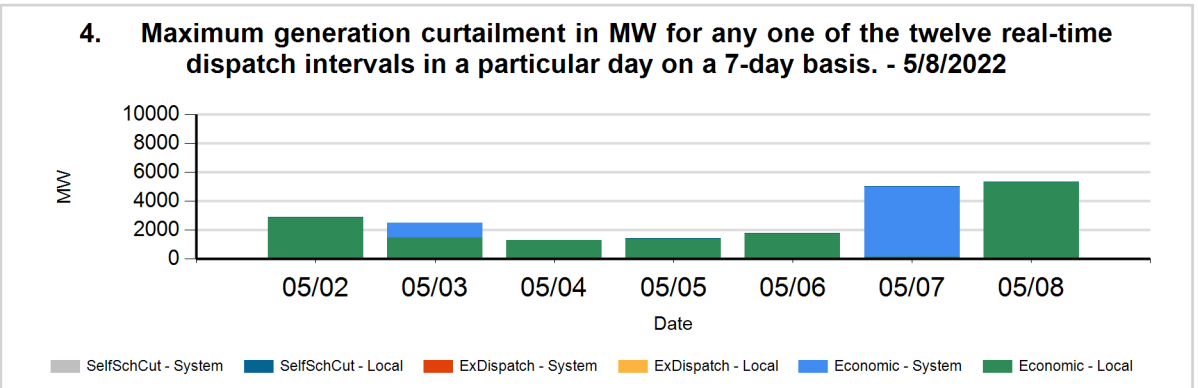
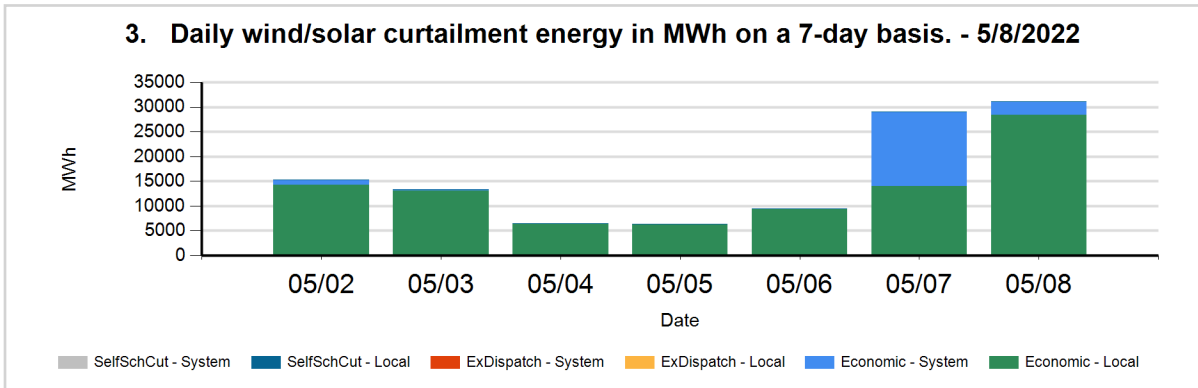
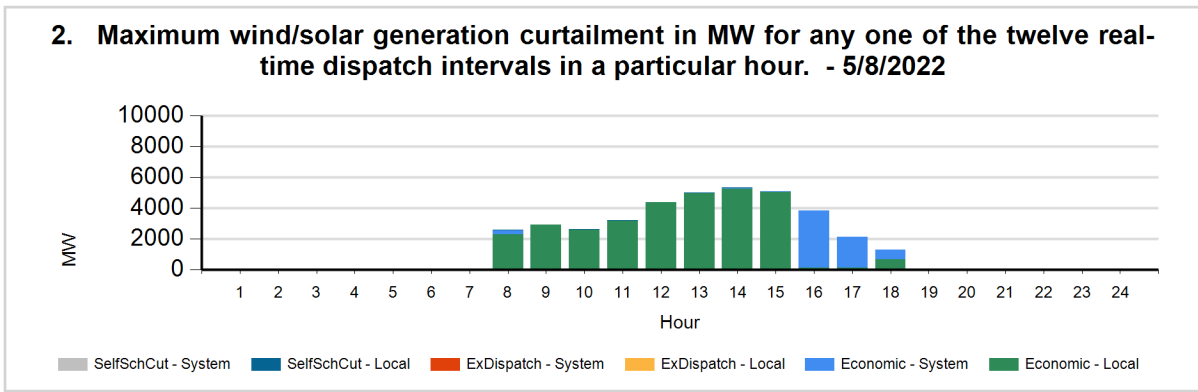
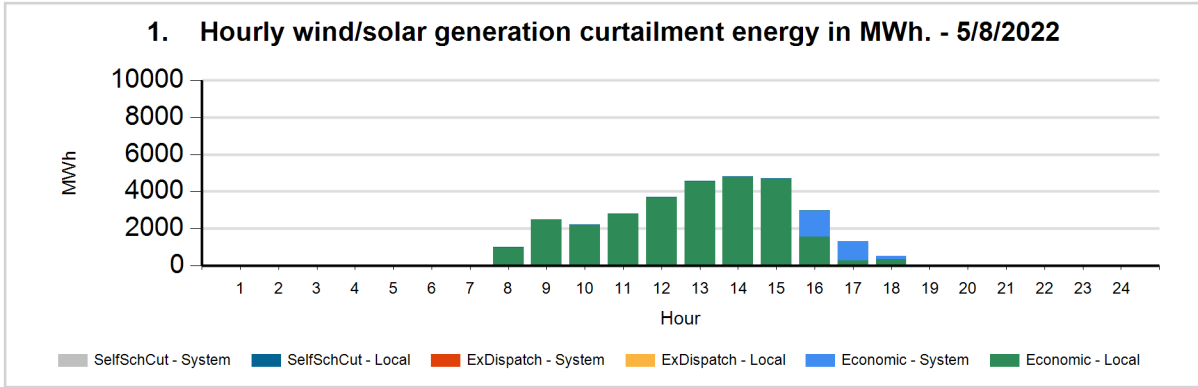
²The Renewables Watch report provides daily actual renewable production within the ISO grid. It is available at: <http://www.caiso.com/green/renewableswatch.html>.

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.

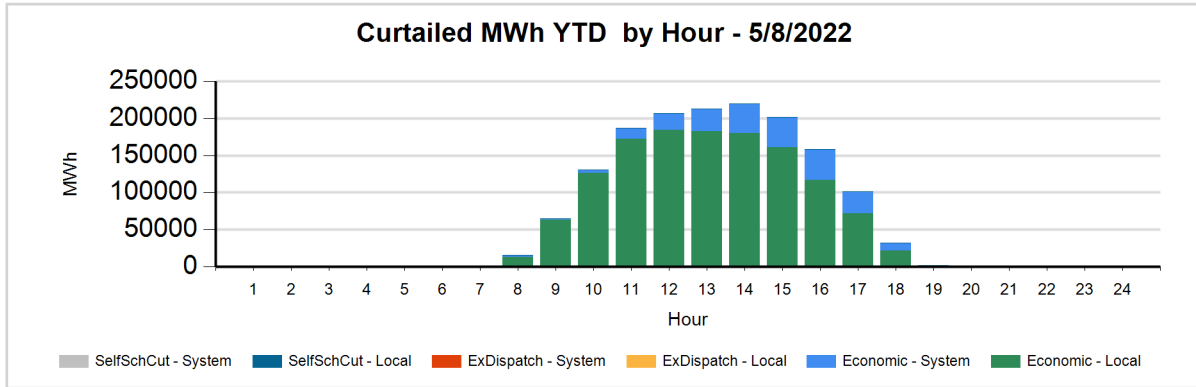
⁴For more information on oversupply conditions, please see:

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

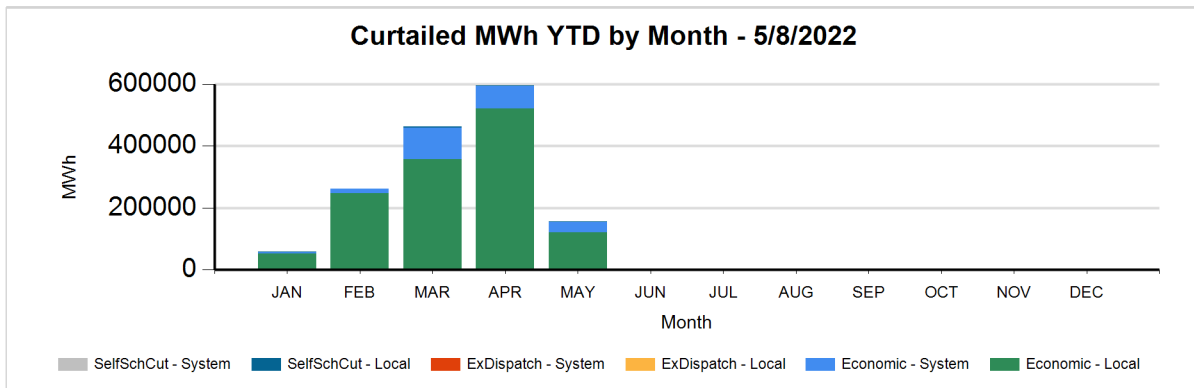
The following charts show the daily and 7-day wind and solar curtailment by category, if any.



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 - 5/8/2022
LocalEconomic	1,295,251
LocalSelfSchCut	4,509
SystemEconomic	235,326
TOTAL	1,535,086

Data used to produce hourly chart

DATE	HOUR	CURT TYPE	REASON	FUEL TYPE	CURTAILED MWH	CURTAILED MW
05/08	1	Economic	Local	WIND	4	4
05/08	2	Economic	Local	WIND	3	3
05/08	3	Economic	Local	WIND	3	3
05/08	4	Economic	Local	WIND	3	3
05/08	5	Economic	Local	WIND	3	3
05/08	6	Economic	Local	WIND	3	3
05/08	7	Economic	Local	WIND	2	3
05/08	8	Economic	Local	SOLR	942	2212
05/08	8	Economic	Local	WIND	19	84
05/08	8	Economic	System	SOLR	47	282
05/08	8	Economic	System	WIND	1	4
05/08	8	SelfSchCut	Local	SOLR	5	12
05/08	9	Economic	Local	SOLR	2468	2806
05/08	9	Economic	Local	WIND	34	103
05/08	10	Economic	Local	SOLR	2180	2595
05/08	10	Economic	Local	WIND	17	22
05/08	10	SelfSchCut	Local	SOLR	1	6
05/08	11	Economic	Local	SOLR	2756	3116
05/08	11	Economic	Local	WIND	46	66
05/08	11	SelfSchCut	Local	SOLR	4	11
05/08	12	Economic	Local	SOLR	3638	4331
05/08	12	Economic	Local	WIND	61	60
05/08	12	SelfSchCut	Local	SOLR	3	
05/08	13	Economic	Local	SOLR	4485	4869
05/08	13	Economic	Local	WIND	79	105
05/08	13	SelfSchCut	Local	SOLR	6	10
05/08	14	Economic	Local	SOLR	4621	4936
05/08	14	Economic	Local	WIND	172	339
05/08	14	Economic	System	WIND	10	31
05/08	14	SelfSchCut	Local	SOLR	6	14
05/08	15	Economic	Local	SOLR	4244	4546

05/08	15	Economic	Local	WIND	421	484
05/08	15	Economic	System	SOLR	1	
05/08	15	Economic	System	WIND	41	47
05/08	15	SelfSchCut	Local	SOLR	4	
05/08	16	Economic	Local	SOLR	1550	117
05/08	16	Economic	Local	WIND	18	11
05/08	16	Economic	System	SOLR	1336	3360
05/08	16	Economic	System	WIND	75	332
05/08	16	SelfSchCut	Local	SOLR	1	
05/08	17	Economic	Local	SOLR	256	104
05/08	17	Economic	Local	WIND	7	
05/08	17	Economic	System	SOLR	962	1951
05/08	17	Economic	System	WIND	75	79
05/08	18	Economic	Local	SOLR	333	647
05/08	18	Economic	Local	WIND	4	
05/08	18	Economic	System	SOLR	136	544
05/08	18	Economic	System	WIND	35	86
05/08	19	Economic	Local	SOLR	20	30
05/08	19	Economic	Local	WIND	5	4
05/08	19	Economic	System	SOLR	1	17
05/08	19	Economic	System	WIND	0	
05/08	20	Economic	Local	WIND	4	11
05/08	20	Economic	System	WIND	1	
05/08	24	Economic	Local	WIND	1	
05/08	24	Economic	System	WIND	1	5

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.

