

Wind and Solar Curtailment May 28, 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.

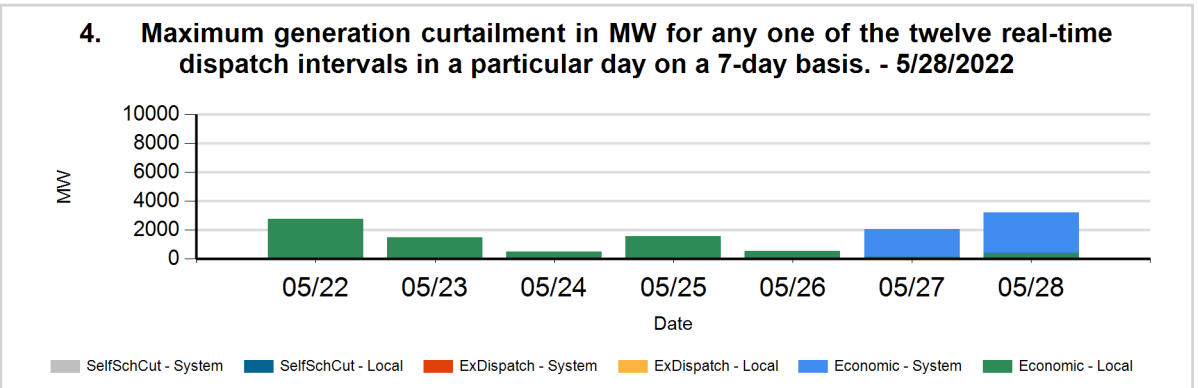
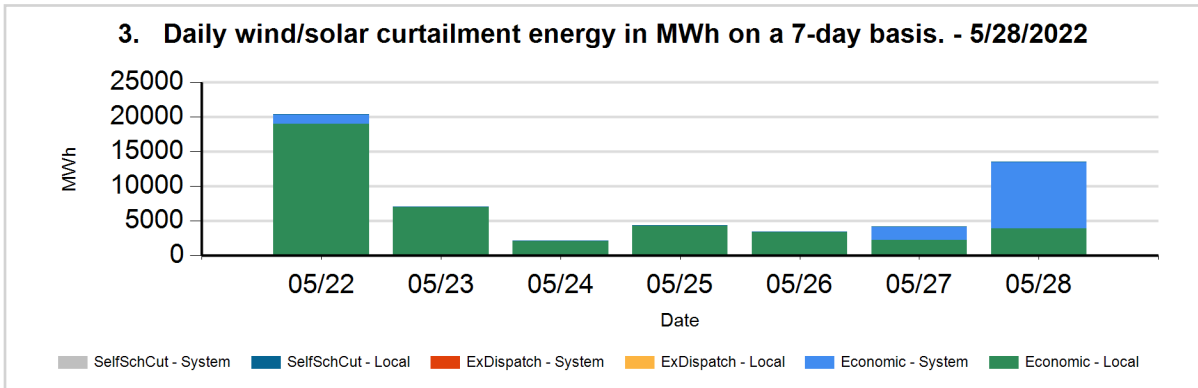
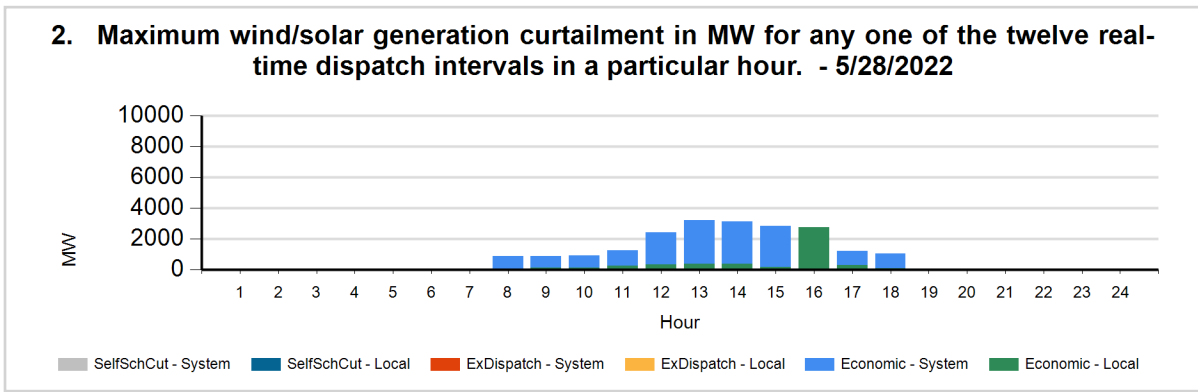
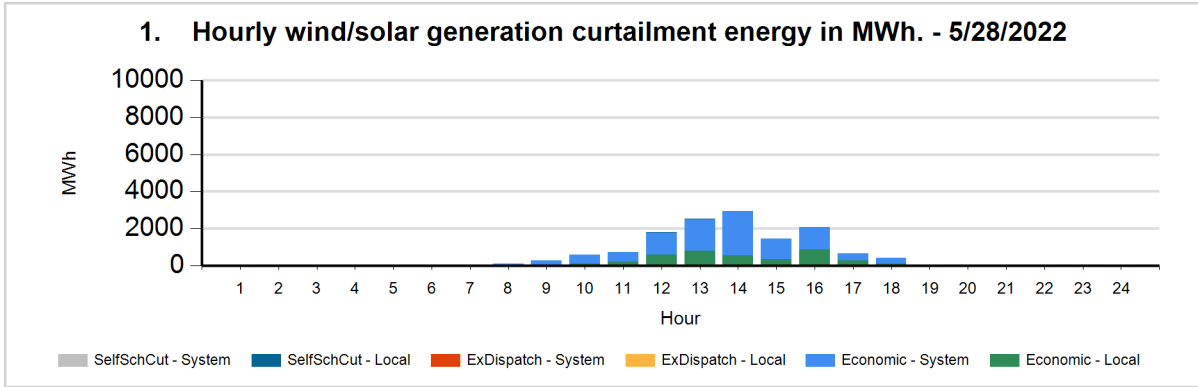
²The Renewables Watch report provides daily actual renewable production within the ISO grid. It is available at: <http://www.caiso.com/green/renewableswatch.html>.

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.

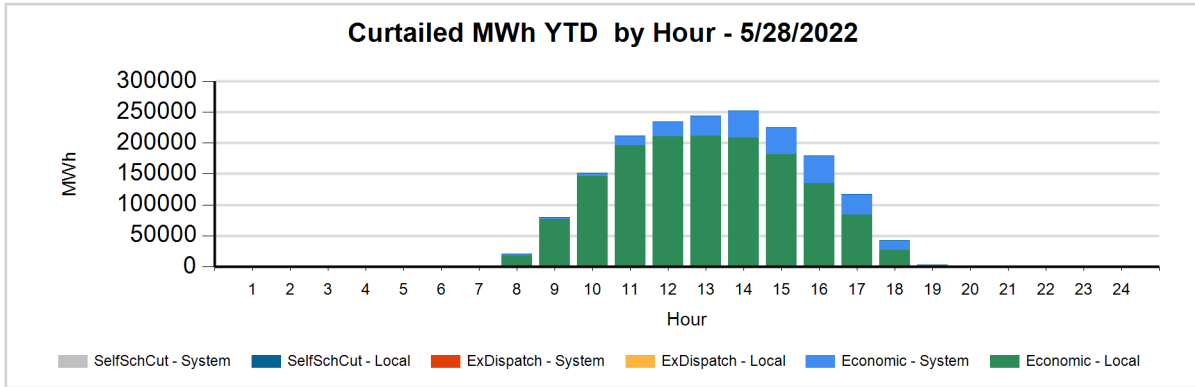
⁴For more information on oversupply conditions, please see:

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

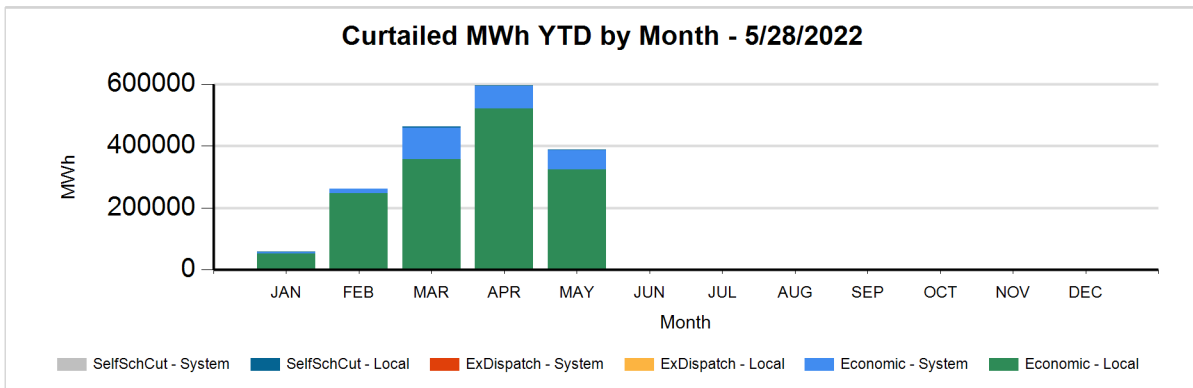
The following charts show the daily and 7-day wind and solar curtailment by category, if any.



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 - 5/28/2022
LocalEconomic	1,498,095
LocalSelfSchCut	4,878
SystemEconomic	263,309
TOTAL	1,766,283

Data used to produce hourly chart

DATE	HOUR	CURT TYPE	REASON	FUEL TYPE	CURTAILED MWH	CURTAILED MW
05/28	8	Economic	Local	SOLR	2	4
05/28	8	Economic	System	SOLR	95	810
05/28	8	Economic	System	WIND	6	48
05/28	9	Economic	Local	SOLR	31	135
05/28	9	Economic	Local	WIND	0	
05/28	9	Economic	System	SOLR	210	652
05/28	9	Economic	System	WIND	22	75
05/28	10	Economic	Local	SOLR	114	101
05/28	10	Economic	System	SOLR	384	720
05/28	10	Economic	System	WIND	75	79
05/28	11	Economic	Local	SOLR	215	238
05/28	11	Economic	Local	WIND	3	3
05/28	11	Economic	System	SOLR	457	928
05/28	11	Economic	System	WIND	47	59
05/28	12	Economic	Local	SOLR	560	333
05/28	12	Economic	Local	WIND	12	5
05/28	12	Economic	System	SOLR	1178	2016
05/28	12	Economic	System	WIND	44	52
05/28	12	SelfSchCut	Local	SOLR	1	
05/28	13	Economic	Local	SOLR	789	362
05/28	13	Economic	Local	WIND	14	5
05/28	13	Economic	System	SOLR	1662	2784
05/28	13	Economic	System	WIND	44	53
05/28	13	SelfSchCut	Local	SOLR	1	
05/28	14	Economic	Local	SOLR	532	381
05/28	14	Economic	Local	WIND	9	4
05/28	14	Economic	System	SOLR	2335	2702
05/28	14	Economic	System	WIND	47	51
05/28	15	Economic	Local	SOLR	333	170
05/28	15	Economic	Local	WIND	8	5
05/28	15	Economic	System	SOLR	1094	2618

05/28	15	Economic	System	WIND	27	55
05/28	16	Economic	Local	SOLR	842	2681
05/28	16	Economic	Local	WIND	21	76
05/28	16	Economic	System	SOLR	1172	
05/28	16	Economic	System	WIND	49	
05/28	17	Economic	Local	SOLR	255	296
05/28	17	Economic	Local	WIND	5	5
05/28	17	Economic	System	SOLR	381	819
05/28	17	Economic	System	WIND	31	67
05/28	18	Economic	Local	SOLR	74	63
05/28	18	Economic	Local	WIND	9	5
05/28	18	Economic	System	SOLR	306	897
05/28	18	Economic	System	WIND	25	62
05/28	19	Economic	Local	SOLR	1	5
05/28	19	Economic	Local	WIND	4	5
05/28	19	Economic	System	SOLR	1	2
05/28	19	Economic	System	WIND	2	27
05/28	20	Economic	Local	WIND	2	3
05/28	21	Economic	Local	WIND	2	2
05/28	22	Economic	Local	WIND	3	4
05/28	23	Economic	Local	WIND	6	20
05/28	24	Economic	Local	WIND	4	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.