

Wind and Solar Curtailment May 28, 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.

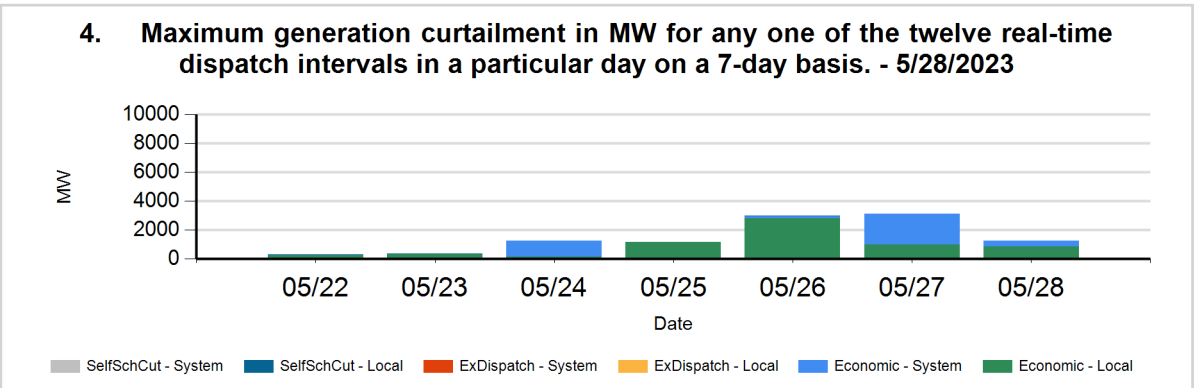
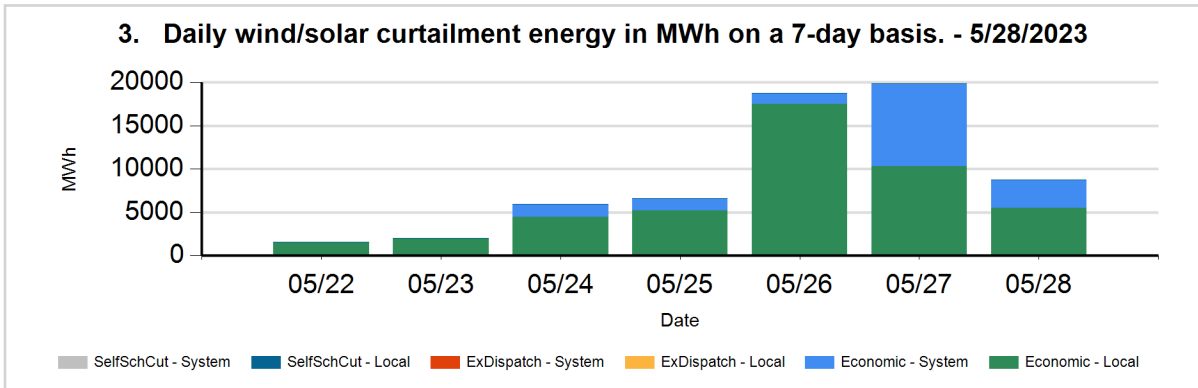
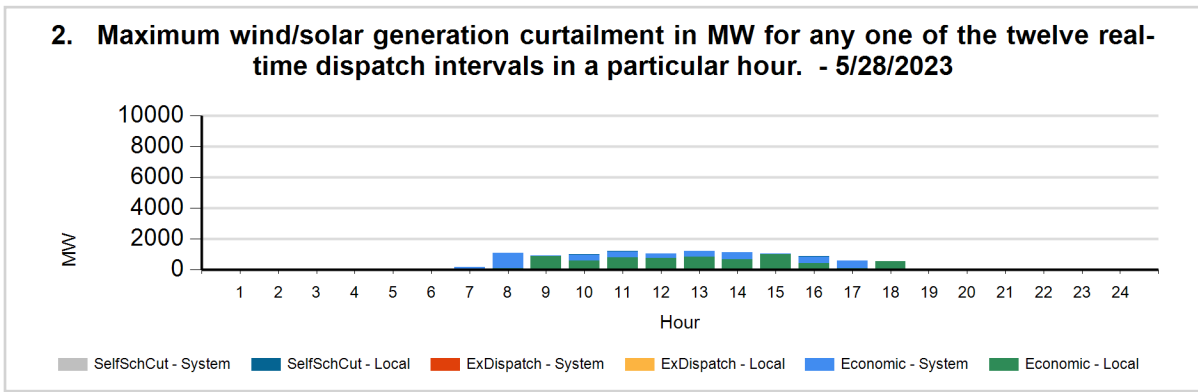
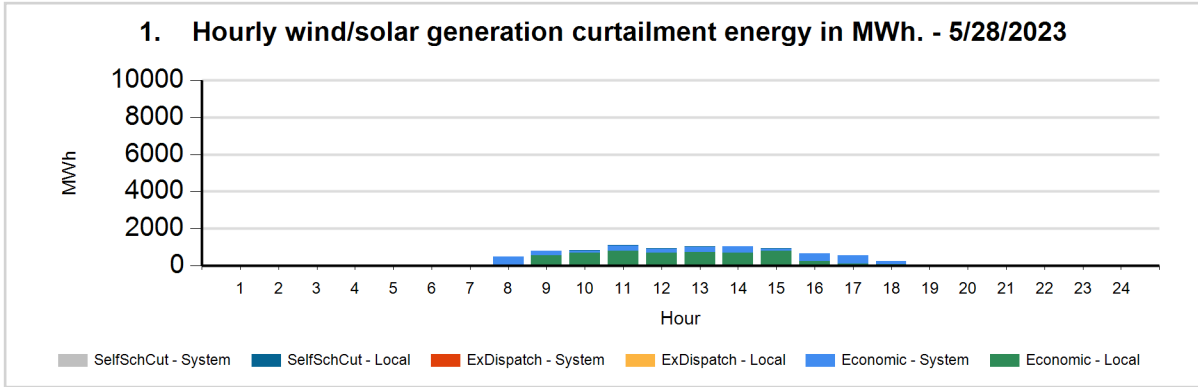
²The Renewables Watch report provides daily actual renewable production within the ISO grid. It is available at: <http://www.caiso.com/green/renewableswatch.html>.

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.

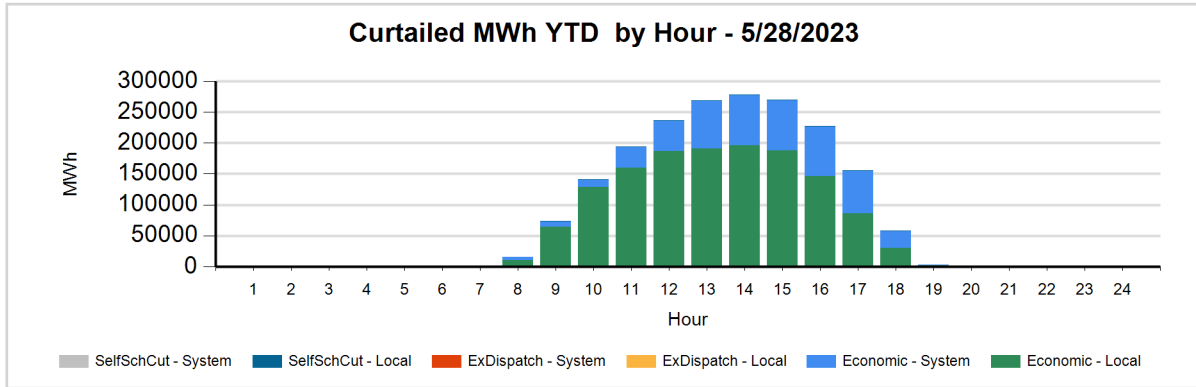
⁴For more information on oversupply conditions, please see:

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

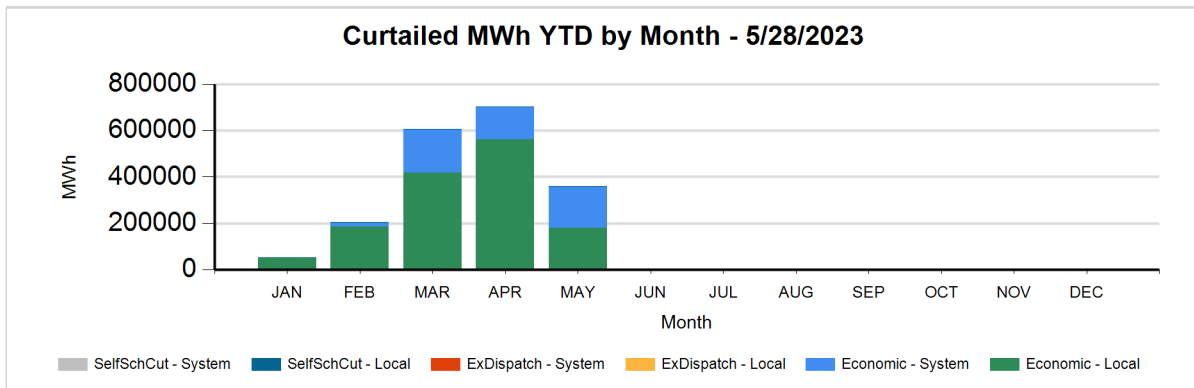
The following charts show the daily and 7-day wind and solar curtailment by category, if any.



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 - 5/28/2023
LocalEconomic	1,393,171
LocalSelfSchCut	545
SystemEconomic	531,500
TOTAL	1,925,216

Data used to produce hourly chart

DATE	HOUR	CURT TYPE	REASON	FUEL TYPE	CURTAILED MWH	CURTAILED MW
05/28	1	Economic	Local	WIND	13	13
05/28	2	Economic	Local	WIND	13	13
05/28	3	Economic	Local	WIND	12	13
05/28	4	Economic	Local	WIND	12	13
05/28	5	Economic	Local	WIND	13	13
05/28	6	Economic	Local	WIND	13	13
05/28	7	Economic	Local	WIND	8	
05/28	7	Economic	System	SOLR	13	82
05/28	7	Economic	System	WIND	20	93
05/28	8	Economic	Local	SOLR	32	62
05/28	8	Economic	System	SOLR	327	884
05/28	8	Economic	System	WIND	109	118
05/28	9	Economic	Local	SOLR	497	813
05/28	9	Economic	Local	WIND	39	67
05/28	9	Economic	System	SOLR	162	
05/28	9	Economic	System	WIND	79	52
05/28	10	Economic	Local	SOLR	634	587
05/28	10	Economic	Local	WIND	44	
05/28	10	Economic	System	SOLR	78	279
05/28	10	Economic	System	WIND	71	115
05/28	10	SelfSchCut	Local	SOLR	1	6
05/28	11	Economic	Local	SOLR	768	796
05/28	11	Economic	Local	WIND	25	12
05/28	11	Economic	System	SOLR	230	267
05/28	11	Economic	System	WIND	89	102
05/28	11	SelfSchCut	Local	SOLR	1	10
05/28	12	Economic	Local	SOLR	655	715
05/28	12	Economic	Local	WIND	21	13
05/28	12	Economic	System	SOLR	160	189
05/28	12	Economic	System	WIND	94	102
05/28	12	SelfSchCut	Local	SOLR	1	

05/28	13	Economic	Local	SOLR	706	841
05/28	13	Economic	System	SOLR	229	268
05/28	13	Economic	System	WIND	115	114
05/28	13	SelfSchCut	Local	SOLR	1	
05/28	14	Economic	Local	SOLR	681	669
05/28	14	Economic	Local	WIND	22	13
05/28	14	Economic	System	SOLR	239	357
05/28	14	Economic	System	WIND	94	102
05/28	15	Economic	Local	SOLR	731	903
05/28	15	Economic	Local	WIND	55	80
05/28	15	Economic	System	SOLR	75	
05/28	15	Economic	System	WIND	63	39
05/28	15	SelfSchCut	Local	SOLR	2	
05/28	16	Economic	Local	SOLR	219	405
05/28	16	Economic	Local	WIND	20	14
05/28	16	Economic	System	SOLR	309	321
05/28	16	Economic	System	WIND	101	110
05/28	16	SelfSchCut	Local	SOLR	0	1
05/28	17	Economic	Local	SOLR	59	43
05/28	17	Economic	Local	WIND	24	15
05/28	17	Economic	System	SOLR	352	403
05/28	17	Economic	System	WIND	99	111
05/28	18	Economic	Local	SOLR	49	432
05/28	18	Economic	Local	WIND	26	120
05/28	18	Economic	System	SOLR	116	
05/28	18	Economic	System	WIND	39	
05/28	19	Economic	Local	WIND	16	17
05/28	20	Economic	Local	WIND	14	14
05/28	20	Economic	System	SOLR	4	26
05/28	21	Economic	Local	WIND	13	13
05/28	22	Economic	Local	WIND	13	13
05/28	23	Economic	Local	WIND	13	13
05/28	24	Economic	Local	WIND	12	16

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.