

Wind and Solar Curtailment May 26, 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.

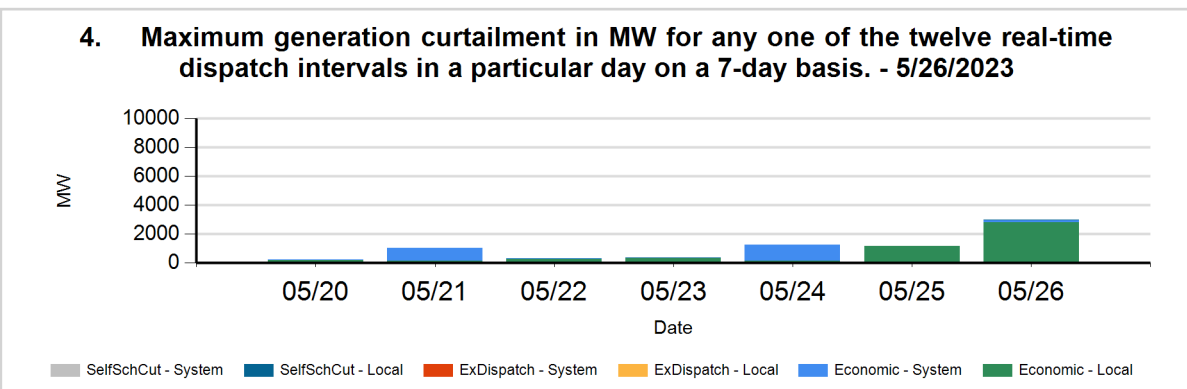
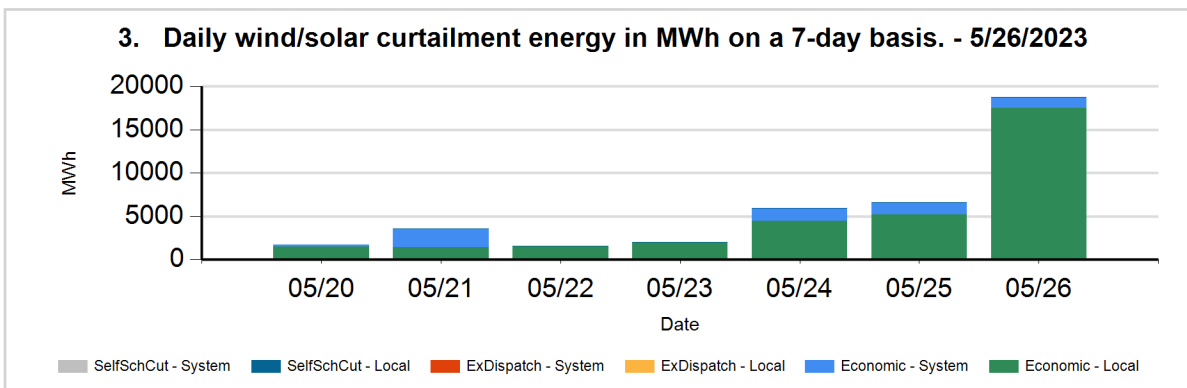
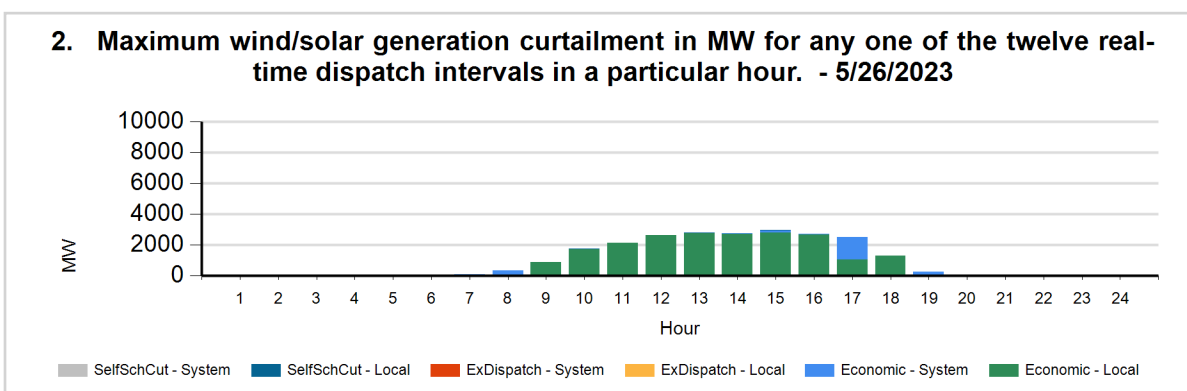
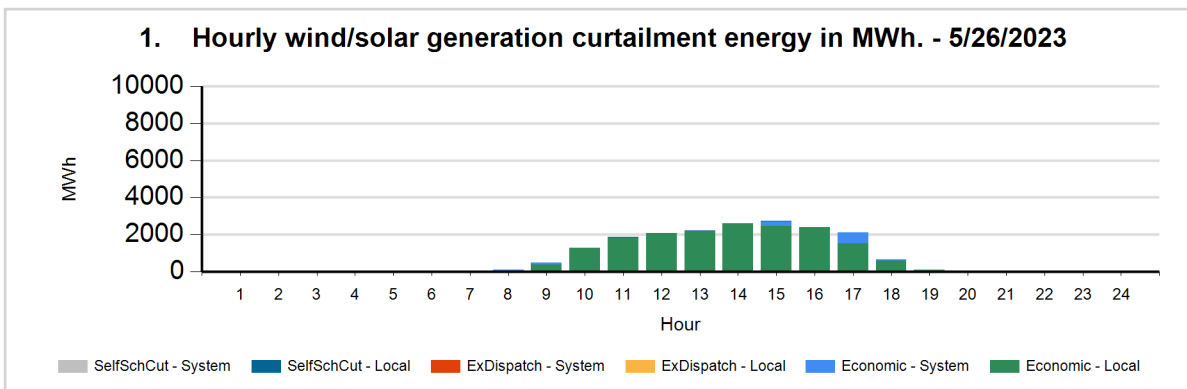
²The Renewables Watch report provides daily actual renewable production within the ISO grid. It is available at: <http://www.caiso.com/green/renewableswatch.html>.

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.

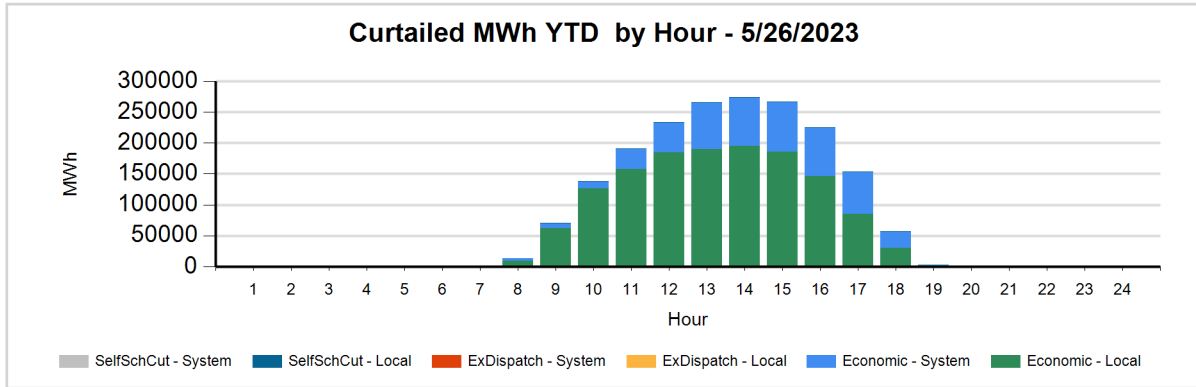
⁴For more information on oversupply conditions, please see:

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

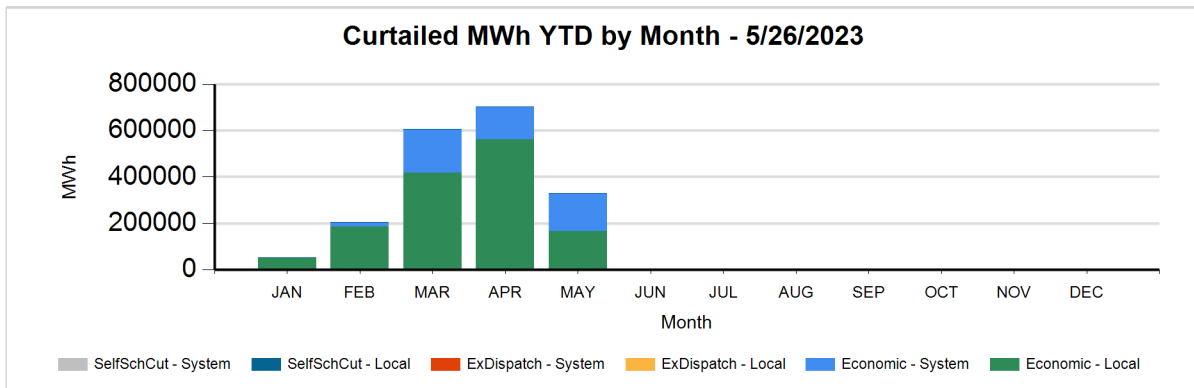
The following charts show the daily and 7-day wind and solar curtailment by category, if any.



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 - 5/26/2023
LocalEconomic	1,377,407
LocalSelfSchCut	531
SystemEconomic	518,707
TOTAL	1,896,645

Data used to produce hourly chart

DATE	HOUR	CURT TYPE	REASON	FUEL TYPE	CURTAILED MWH	CURTAILED MW
05/26	1	Economic	Local	WIND	13	13
05/26	2	Economic	Local	WIND	13	13
05/26	3	Economic	Local	WIND	13	13
05/26	3	Economic	System	WIND	1	12
05/26	4	Economic	Local	WIND	13	13
05/26	5	Economic	Local	WIND	13	13
05/26	5	Economic	System	WIND	5	36
05/26	6	Economic	Local	WIND	12	12
05/26	7	Economic	Local	WIND	11	13
05/26	7	Economic	System	SOLR	16	57
05/26	7	Economic	System	WIND	1	
05/26	8	Economic	Local	SOLR	33	32
05/26	8	Economic	Local	WIND	13	14
05/26	8	Economic	System	SOLR	50	212
05/26	8	Economic	System	WIND	13	56
05/26	9	Economic	Local	SOLR	284	643
05/26	9	Economic	Local	WIND	80	210
05/26	9	Economic	System	SOLR	54	
05/26	9	Economic	System	WIND	46	
05/26	10	Economic	Local	SOLR	1202	1659
05/26	10	Economic	Local	WIND	93	88
05/26	10	SelfSchCut	Local	SOLR	0	2
05/26	11	Economic	Local	SOLR	1779	2024
05/26	11	Economic	Local	WIND	84	87
05/26	11	SelfSchCut	Local	SOLR	3	
05/26	12	Economic	Local	SOLR	1977	2551
05/26	12	Economic	Local	WIND	86	86
05/26	12	SelfSchCut	Local	SOLR	0	
05/26	13	Economic	Local	SOLR	2113	2697
05/26	13	Economic	Local	WIND	85	88
05/26	13	SelfSchCut	Local	SOLR	4	5

05/26	14	Economic	Local	SOLR	2497	2641
05/26	14	Economic	Local	WIND	92	88
05/26	14	Economic	System	WIND	17	24
05/26	14	SelfSchCut	Local	SOLR	2	
05/26	15	Economic	Local	SOLR	2364	2674
05/26	15	Economic	Local	WIND	84	118
05/26	15	Economic	System	SOLR	219	
05/26	15	Economic	System	WIND	74	169
05/26	15	SelfSchCut	Local	SOLR	1	5
05/26	16	Economic	Local	SOLR	2259	2507
05/26	16	Economic	Local	WIND	95	167
05/26	16	Economic	System	WIND	36	35
05/26	16	SelfSchCut	Local	SOLR	1	
05/26	17	Economic	Local	SOLR	1418	1008
05/26	17	Economic	Local	WIND	90	15
05/26	17	Economic	System	SOLR	556	1344
05/26	17	Economic	System	WIND	54	128
05/26	18	Economic	Local	SOLR	551	1150
05/26	18	Economic	Local	WIND	44	149
05/26	18	Economic	System	SOLR	35	
05/26	18	Economic	System	WIND	21	
05/26	19	Economic	Local	SOLR	48	26
05/26	19	Economic	Local	WIND	14	17
05/26	19	Economic	System	SOLR	38	154
05/26	19	Economic	System	WIND	4	36
05/26	20	Economic	Local	WIND	12	13
05/26	21	Economic	Local	WIND	10	10
05/26	22	Economic	Local	WIND	9	9
05/26	23	Economic	Local	WIND	9	9
05/26	24	Economic	Local	WIND	7	8

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.



California ISO