

Wind and Solar Curtailment May 19, 2024

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.

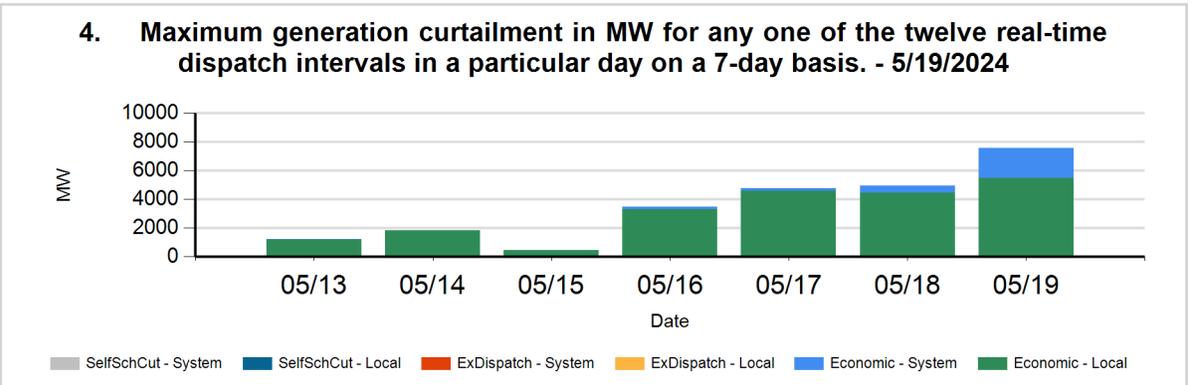
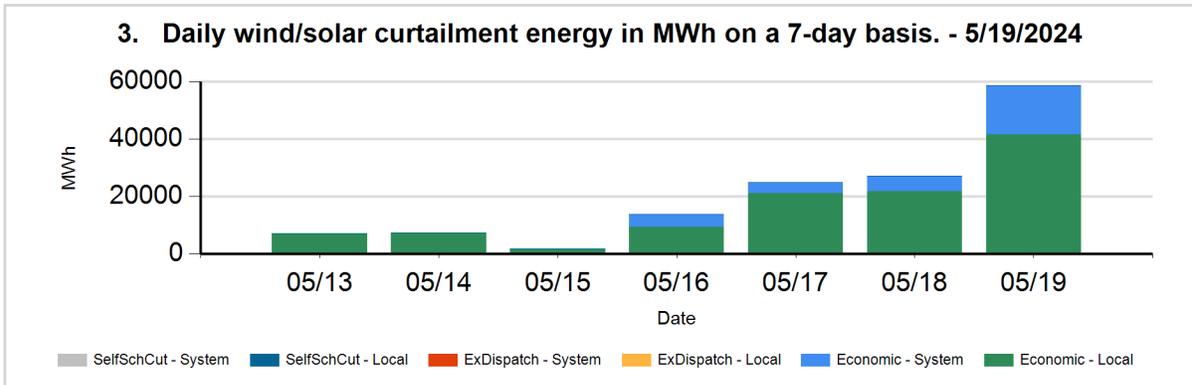
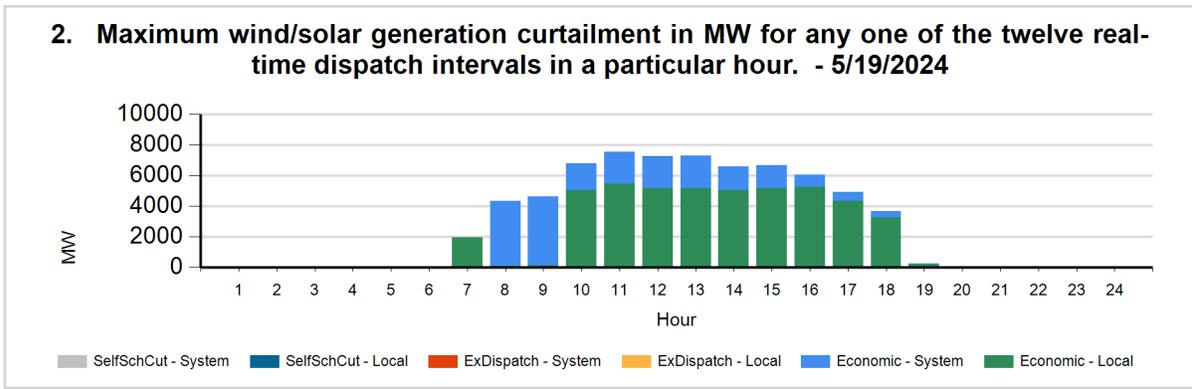
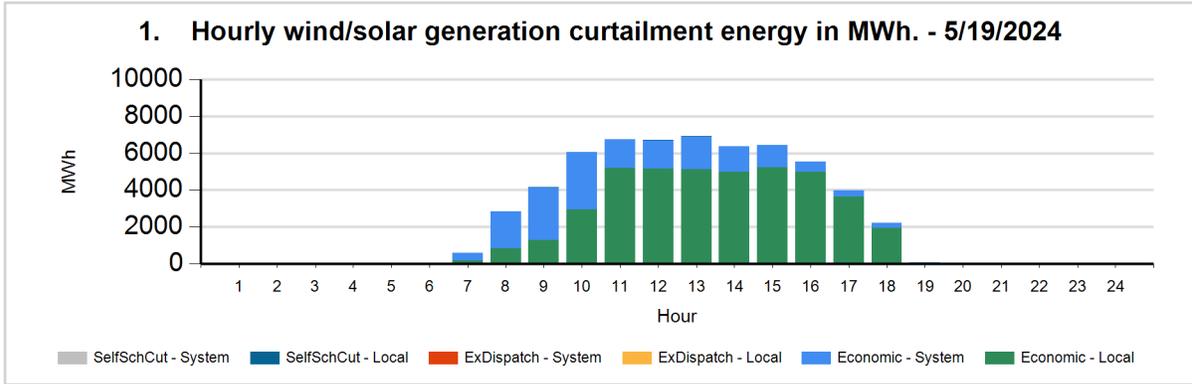
²The Renewables Watch report provides daily actual renewable production within the ISO grid. It is available at: <http://www.caiso.com/green/renewableswatch.html>.

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.

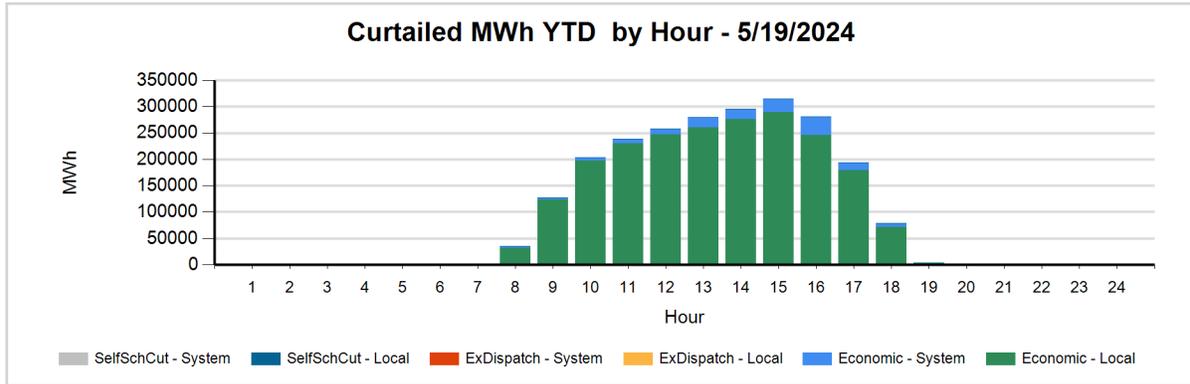
⁴For more information on oversupply conditions, please see:

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

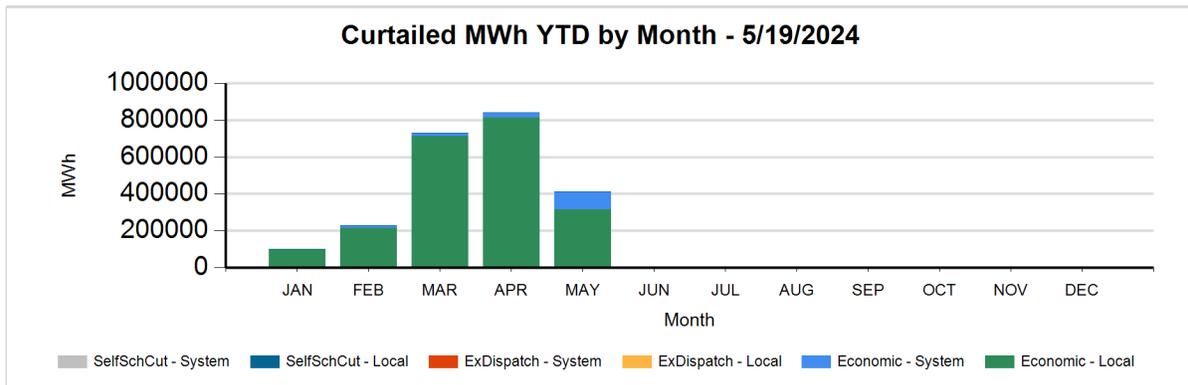
The following charts show the daily and 7-day wind and solar curtailment by category, if any.



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 - 5/19/2024
LocalEconomic	2,155,835
LocalSelfSchCut	1,473
SystemEconomic	154,664
TOTAL	2,311,971

Data used to produce hourly chart

DATE	HOUR	CURT TYPE	REASON	FUEL TYPE	CURTAILED MWH	CURTAILED MW
05/19	7	Economic	Local	SOLR	116	1388
05/19	7	Economic	Local	WIND	47	561
05/19	7	Economic	System	SOLR	302	
05/19	7	Economic	System	WIND	124	
05/19	8	Economic	Local	SOLR	709	82
05/19	8	Economic	Local	WIND	129	
05/19	8	Economic	System	SOLR	1618	3384
05/19	8	Economic	System	WIND	367	881
05/19	9	Economic	Local	SOLR	1052	137
05/19	9	Economic	Local	WIND	230	
05/19	9	Economic	System	SOLR	2339	3715
05/19	9	Economic	System	WIND	534	773
05/19	9	SelfSchCut	Local	SOLR	1	
05/19	10	Economic	Local	SOLR	2518	4316
05/19	10	Economic	Local	WIND	416	712
05/19	10	Economic	System	SOLR	2744	1651
05/19	10	Economic	System	WIND	370	110
05/19	11	Economic	Local	SOLR	4425	4664
05/19	11	Economic	Local	WIND	777	792
05/19	11	Economic	System	SOLR	1431	1960
05/19	11	Economic	System	WIND	111	120
05/19	11	SelfSchCut	Local	SOLR	0	
05/19	12	Economic	Local	SOLR	4312	4328
05/19	12	Economic	Local	WIND	846	863
05/19	12	Economic	System	SOLR	1465	1950
05/19	12	Economic	System	WIND	102	106
05/19	12	SelfSchCut	Local	SOLR	1	2
05/19	13	Economic	Local	SOLR	4256	4285
05/19	13	Economic	Local	WIND	875	885
05/19	13	Economic	System	SOLR	1679	1971
05/19	13	Economic	System	WIND	107	144

05/19	13	SelfSchCut	Local	SOLR	1	
05/19	14	Economic	Local	SOLR	4118	4160
05/19	14	Economic	Local	WIND	859	878
05/19	14	Economic	System	SOLR	1291	1451
05/19	14	Economic	System	WIND	89	98
05/19	15	Economic	Local	SOLR	4360	4341
05/19	15	Economic	Local	WIND	860	842
05/19	15	Economic	System	SOLR	1141	1426
05/19	15	Economic	System	WIND	80	77
05/19	16	Economic	Local	SOLR	4154	4418
05/19	16	Economic	Local	WIND	844	836
05/19	16	Economic	System	SOLR	508	746
05/19	16	Economic	System	WIND	39	54
05/19	17	Economic	Local	SOLR	2836	3538
05/19	17	Economic	Local	WIND	790	805
05/19	17	Economic	System	SOLR	319	523
05/19	17	Economic	System	WIND	22	73
05/19	18	Economic	Local	SOLR	1560	2515
05/19	18	Economic	Local	WIND	376	717
05/19	18	Economic	System	SOLR	257	422
05/19	18	Economic	System	WIND	8	12
05/19	19	Economic	Local	SOLR	51	221
05/19	19	Economic	System	SOLR	16	
05/19	19	Economic	System	WIND	6	13

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