

Wind and Solar Curtailment May 08, 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.

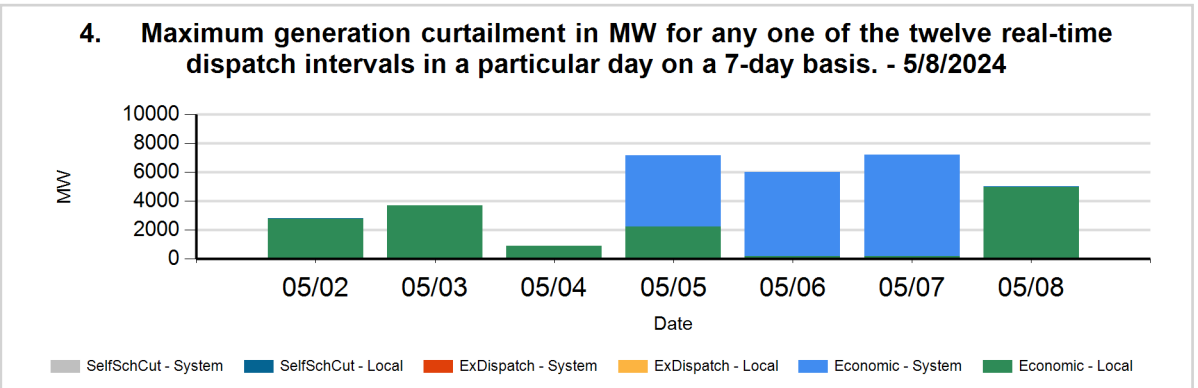
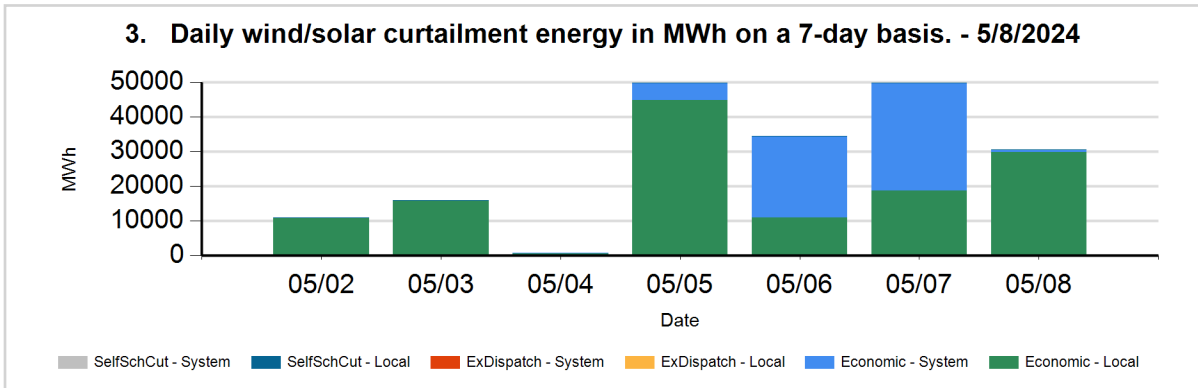
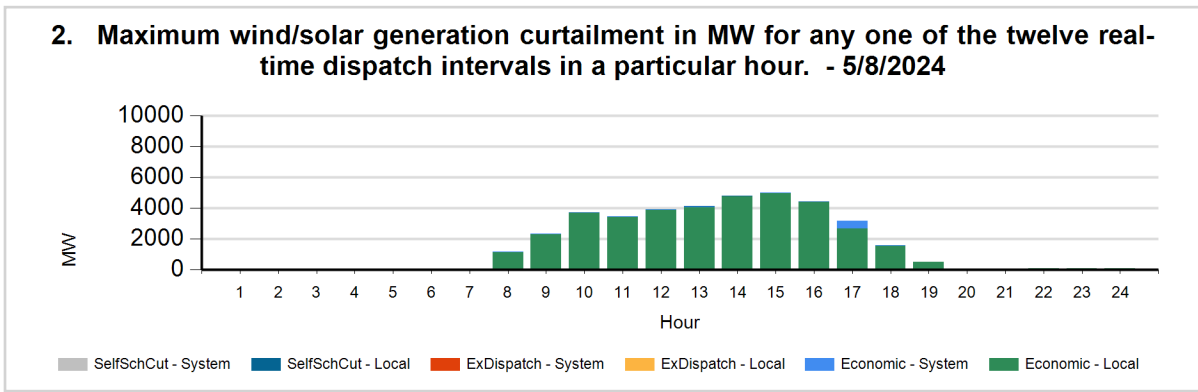
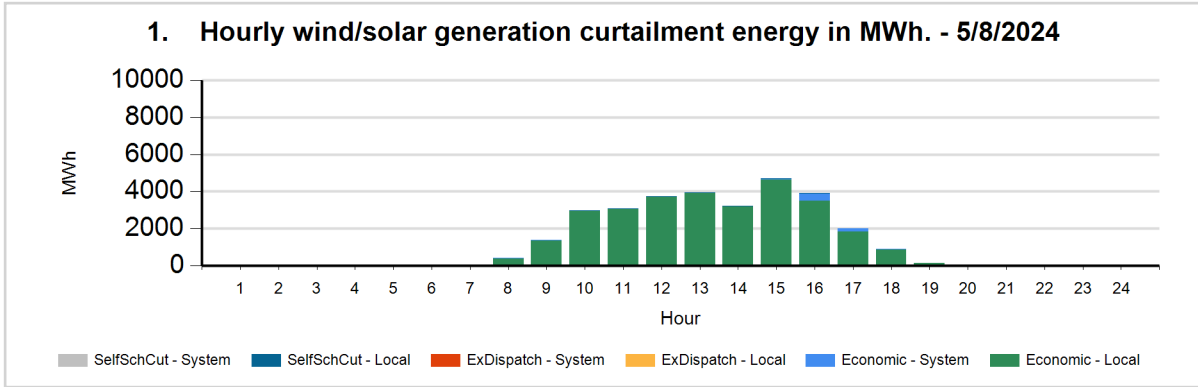
²The Renewables Watch report provides daily actual renewable production within the ISO grid. It is available at: <http://www.caiso.com/green/renewableswatch.html>.

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.

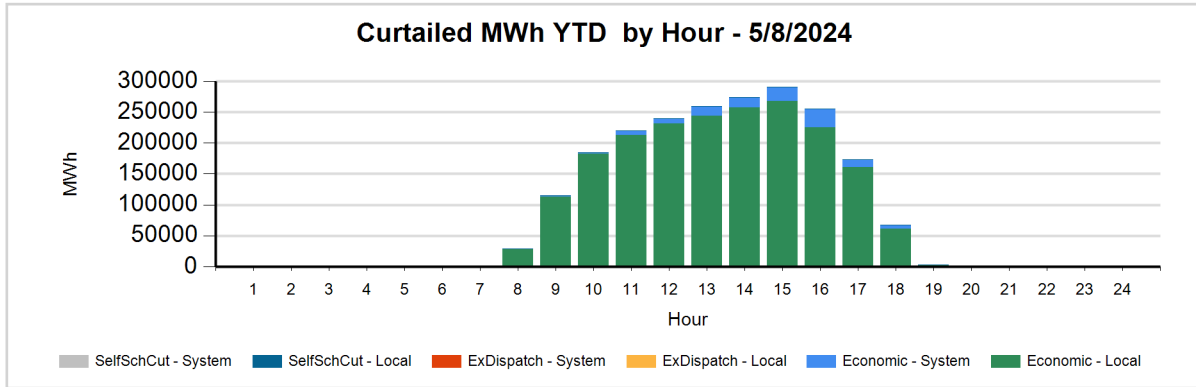
⁴For more information on oversupply conditions, please see:

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

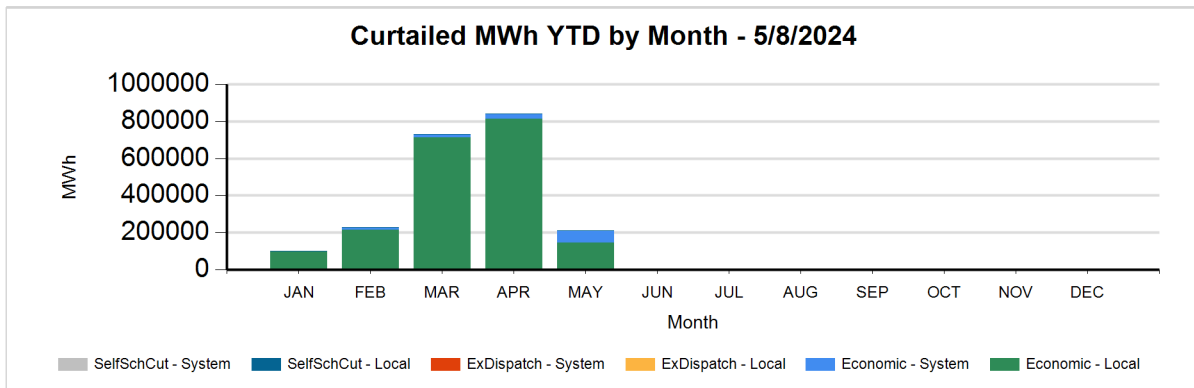
The following charts show the daily and 7-day wind and solar curtailment by category, if any.



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 - 5/8/2024
LocalEconomic	1,987,033
LocalSelfSchCut	1,327
SystemEconomic	123,596
TOTAL	2,111,956

Data used to produce hourly chart

DATE	HOUR	CURT TYPE	REASON	FUEL TYPE	CURTAILED MWH	CURTAILED MW
05/08	4	Economic	System	WIND	0	1
05/08	7	Economic	Local	WIND	0	
05/08	7	Economic	System	WIND	0	2
05/08	8	Economic	Local	SOLR	409	1157
05/08	8	Economic	System	WIND	5	21
05/08	9	Economic	Local	SOLR	1380	2247
05/08	9	Economic	Local	WIND	11	55
05/08	9	Economic	System	WIND	2	20
05/08	10	Economic	Local	SOLR	2921	3569
05/08	10	Economic	Local	WIND	55	106
05/08	10	Economic	System	WIND	10	21
05/08	10	SelfSchCut	Local	SOLR	1	5
05/08	11	Economic	Local	SOLR	2960	3320
05/08	11	Economic	Local	WIND	89	123
05/08	11	Economic	System	WIND	28	29
05/08	11	SelfSchCut	Local	SOLR	2	
05/08	12	Economic	Local	SOLR	3612	3794
05/08	12	Economic	Local	WIND	110	102
05/08	12	Economic	System	WIND	21	20
05/08	12	SelfSchCut	Local	SOLR	3	
05/08	13	Economic	Local	SOLR	3837	4008
05/08	13	Economic	Local	WIND	94	90
05/08	13	Economic	System	WIND	14	8
05/08	13	SelfSchCut	Local	SOLR	7	12
05/08	14	Economic	Local	SOLR	3142	4707
05/08	14	Economic	Local	WIND	50	75
05/08	14	Economic	System	WIND	11	17
05/08	14	SelfSchCut	Local	SOLR	3	7
05/08	15	Economic	Local	SOLR	4566	4869
05/08	15	Economic	Local	WIND	59	132
05/08	15	Economic	System	SOLR	60	

05/08	15	Economic	System	WIND	17	17
05/08	15	SelfSchCut	Local	SOLR	1	
05/08	16	Economic	Local	SOLR	3440	4329
05/08	16	Economic	Local	WIND	50	87
05/08	16	Economic	System	SOLR	406	
05/08	16	Economic	System	WIND	17	8
05/08	16	SelfSchCut	Local	SOLR	2	9
05/08	17	Economic	Local	SOLR	1808	2647
05/08	17	Economic	Local	WIND	11	19
05/08	17	Economic	System	SOLR	161	483
05/08	17	Economic	System	WIND	7	23
05/08	18	Economic	Local	SOLR	887	1560
05/08	18	Economic	Local	WIND	1	3
05/08	18	Economic	System	WIND	1	13
05/08	19	Economic	Local	SOLR	149	515
05/08	22	Economic	Local	WIND	33	99
05/08	23	Economic	Local	WIND	31	83
05/08	24	Economic	Local	WIND	19	75

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.