

Wind and Solar Curtailment May 18, 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.

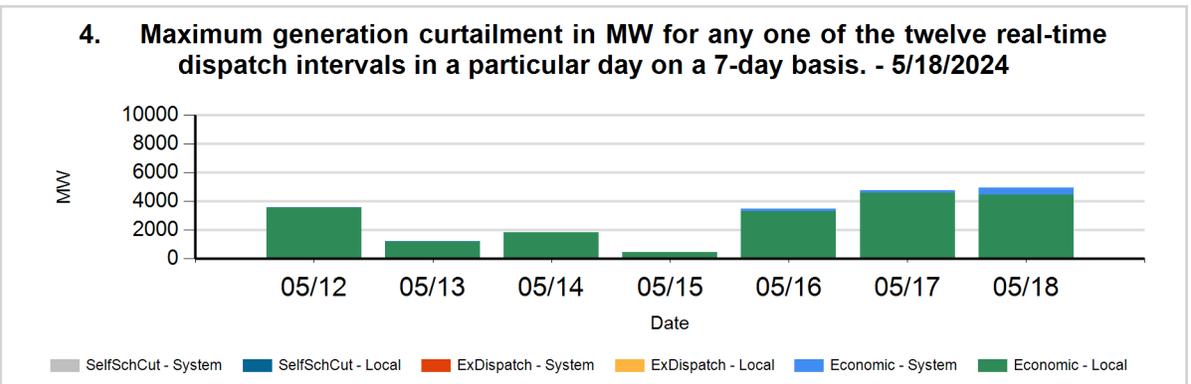
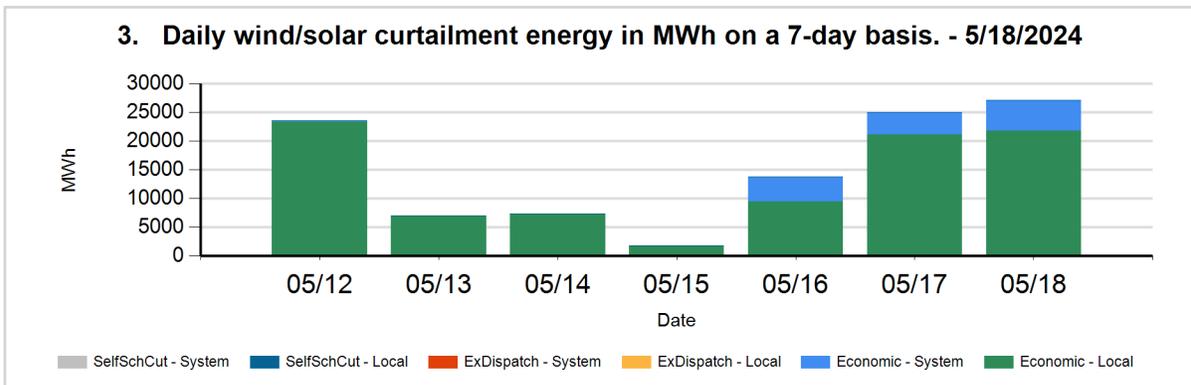
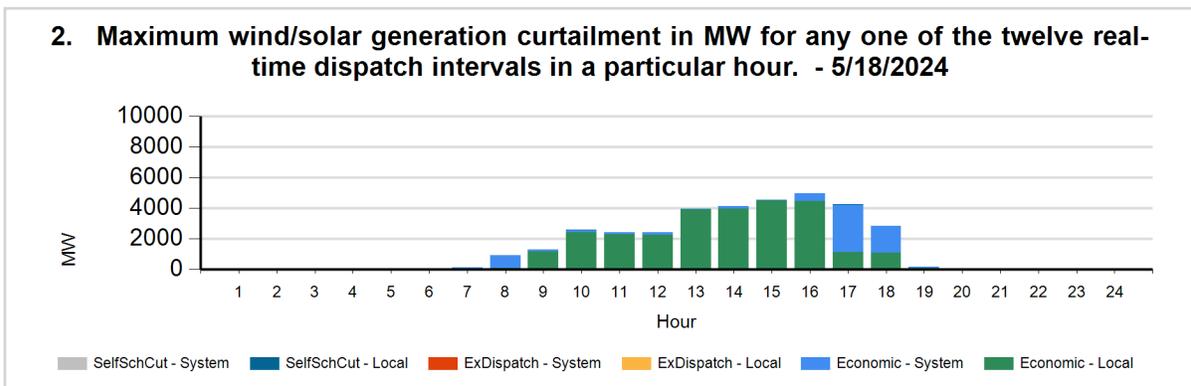
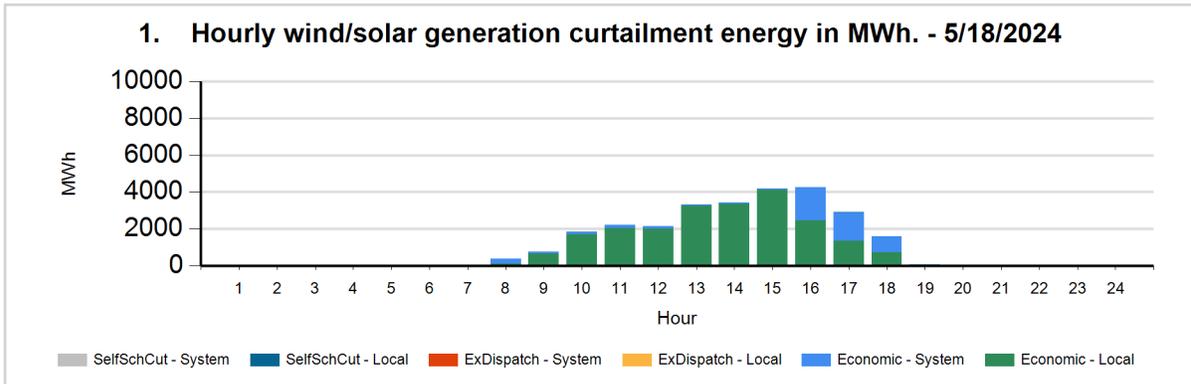
²The Renewables Watch report provides daily actual renewable production within the ISO grid. It is available at: <http://www.caiso.com/green/renewableswatch.html>.

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.

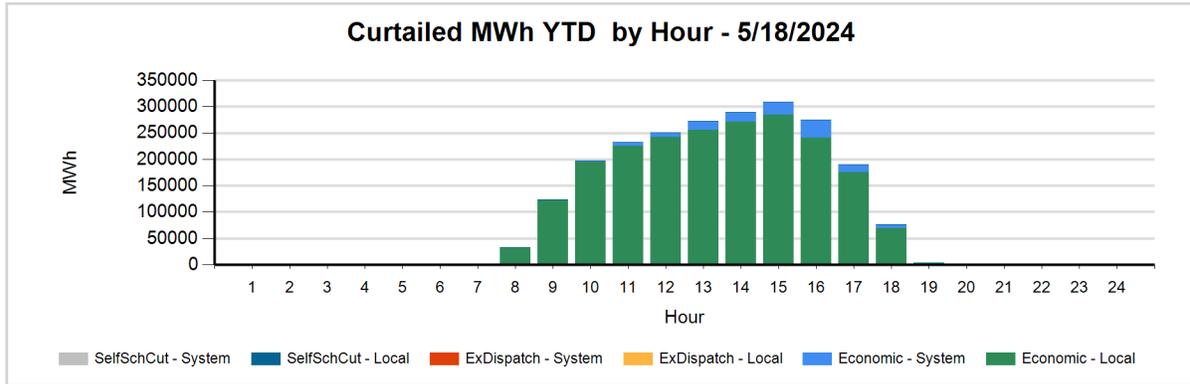
⁴For more information on oversupply conditions, please see:

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

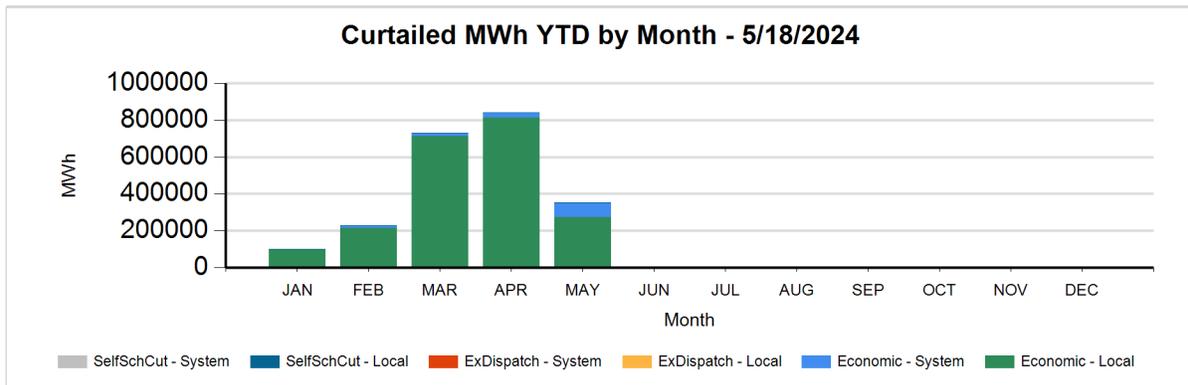
The following charts show the daily and 7-day wind and solar curtailment by category, if any.



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 - 5/18/2024
LocalEconomic	2,114,319
LocalSelfSchCut	1,470
SystemEconomic	137,598
TOTAL	2,253,386

Data used to produce hourly chart

DATE	HOUR	CURT TYPE	REASON	FUEL TYPE	CURTAILED MWH	CURTAILED MW
05/18	7	Economic	Local	SOLR	13	
05/18	7	Economic	System	SOLR	24	123
05/18	8	Economic	Local	SOLR	114	63
05/18	8	Economic	System	SOLR	266	806
05/18	8	Economic	System	WIND	13	30
05/18	9	Economic	Local	SOLR	630	1144
05/18	9	Economic	Local	WIND	8	39
05/18	9	Economic	System	SOLR	76	56
05/18	9	Economic	System	WIND	34	35
05/18	10	Economic	Local	SOLR	1515	2044
05/18	10	Economic	Local	WIND	191	361
05/18	10	Economic	System	SOLR	77	124
05/18	10	Economic	System	WIND	30	27
05/18	10	SelfSchCut	Local	SOLR	7	9
05/18	11	Economic	Local	SOLR	1776	1947
05/18	11	Economic	Local	WIND	277	326
05/18	11	Economic	System	SOLR	123	127
05/18	11	Economic	System	WIND	26	30
05/18	12	Economic	Local	SOLR	1764	2014
05/18	12	Economic	Local	WIND	255	234
05/18	12	Economic	System	SOLR	105	152
05/18	12	Economic	System	WIND	18	19
05/18	13	Economic	Local	SOLR	2845	3382
05/18	13	Economic	Local	WIND	409	531
05/18	13	Economic	System	SOLR	33	
05/18	13	Economic	System	WIND	22	28
05/18	14	Economic	Local	SOLR	2906	3361
05/18	14	Economic	Local	WIND	450	591
05/18	14	Economic	System	SOLR	5	5
05/18	14	Economic	System	WIND	52	156
05/18	15	Economic	Local	SOLR	3519	3900

05/18	15	Economic	Local	WIND	602	615
05/18	15	Economic	System	SOLR	4	5
05/18	15	Economic	System	WIND	49	17
05/18	16	Economic	Local	SOLR	2234	3824
05/18	16	Economic	Local	WIND	214	618
05/18	16	Economic	System	SOLR	1272	254
05/18	16	Economic	System	WIND	546	251
05/18	17	Economic	Local	SOLR	1272	1121
05/18	17	Economic	Local	WIND	59	
05/18	17	Economic	System	SOLR	1250	2300
05/18	17	Economic	System	WIND	313	835
05/18	17	SelfSchCut	Local	SOLR	2	4
05/18	18	Economic	Local	SOLR	708	1071
05/18	18	Economic	System	SOLR	784	1504
05/18	18	Economic	System	WIND	103	243
05/18	19	Economic	Local	SOLR	25	64
05/18	19	Economic	System	SOLR	33	103
05/18	19	Economic	System	WIND	4	12

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.