

Wind and Solar Curtailment May 12, 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.

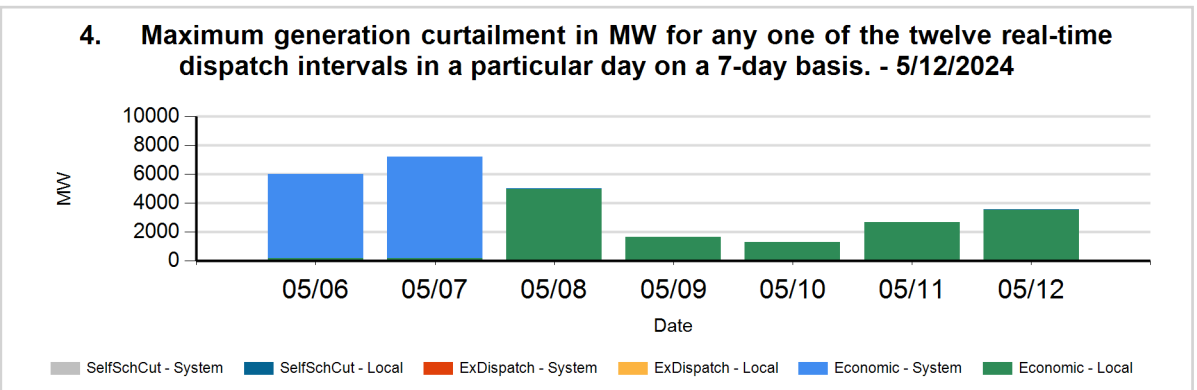
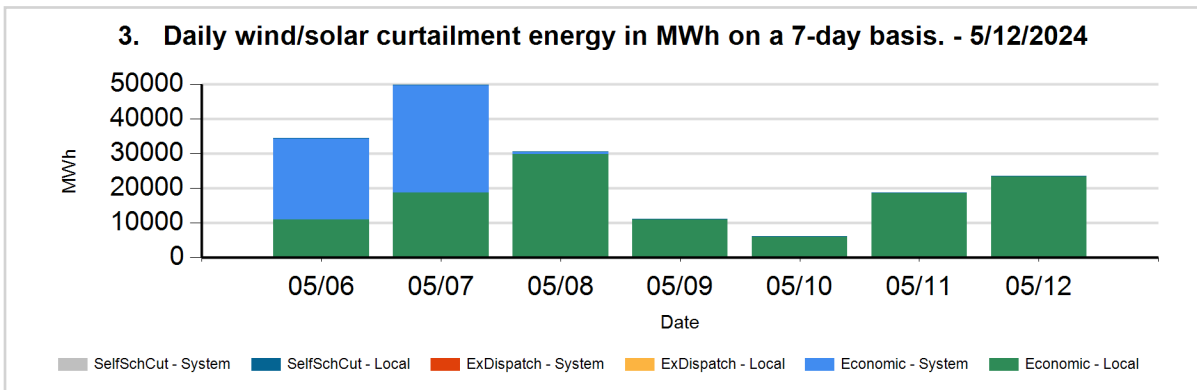
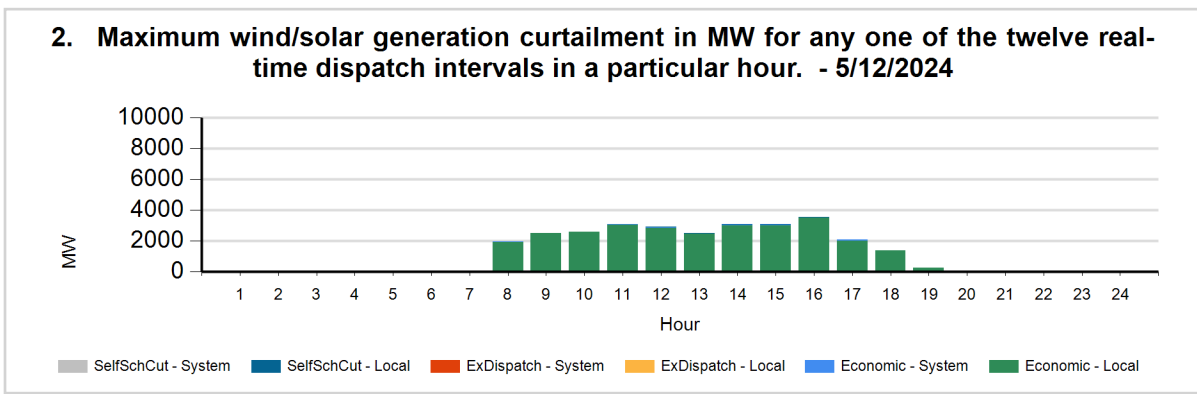
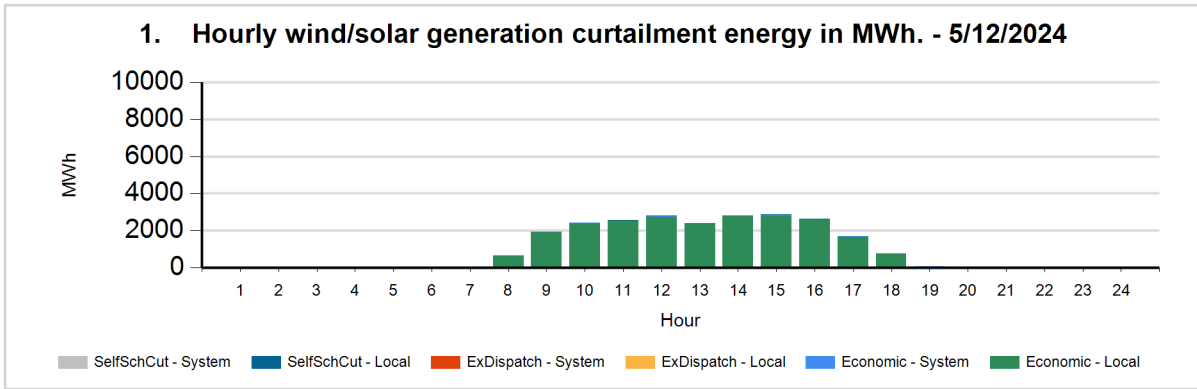
²The Renewables Watch report provides daily actual renewable production within the ISO grid. It is available at: <http://www.caiso.com/green/renewableswatch.html>.

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.

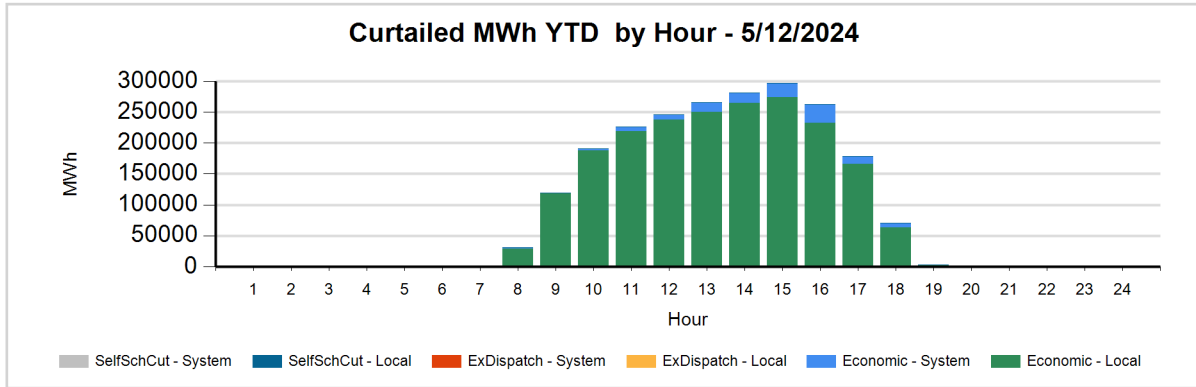
⁴For more information on oversupply conditions, please see:

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

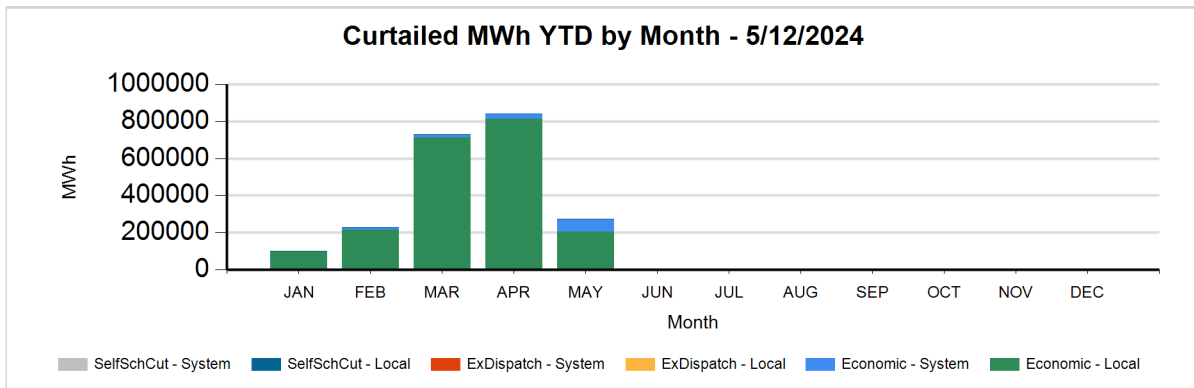
The following charts show the daily and 7-day wind and solar curtailment by category, if any.



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 - 5/12/2024
LocalEconomic	2,046,085
LocalSelfSchCut	1,409
SystemEconomic	123,929
TOTAL	2,171,423

Data used to produce hourly chart

DATE	HOUR	CURT TYPE	REASON	FUEL TYPE	CURTAILED MWH	CURTAILED MW
05/12	8	Economic	Local	SOLR	576	1676
05/12	8	Economic	Local	WIND	65	249
05/12	8	Economic	System	SOLR	6	32
05/12	9	Economic	Local	SOLR	1765	2249
05/12	9	Economic	Local	WIND	176	245
05/12	9	Economic	System	SOLR	5	
05/12	10	Economic	Local	SOLR	2196	2397
05/12	10	Economic	Local	WIND	209	169
05/12	10	Economic	System	SOLR	5	
05/12	11	Economic	Local	SOLR	2395	2905
05/12	11	Economic	Local	WIND	147	129
05/12	11	Economic	System	SOLR	18	54
05/12	11	SelfSchCut	Local	SOLR	1	
05/12	12	Economic	Local	SOLR	2635	2705
05/12	12	Economic	Local	WIND	109	148
05/12	12	Economic	System	SOLR	52	56
05/12	12	SelfSchCut	Local	SOLR	3	8
05/12	13	Economic	Local	SOLR	2281	2393
05/12	13	Economic	Local	WIND	90	108
05/12	13	Economic	System	SOLR	23	
05/12	13	SelfSchCut	Local	SOLR	6	10
05/12	14	Economic	Local	SOLR	2668	2894
05/12	14	Economic	Local	WIND	104	114
05/12	14	Economic	System	SOLR	21	58
05/12	14	SelfSchCut	Local	SOLR	4	9
05/12	15	Economic	Local	SOLR	2691	2878
05/12	15	Economic	Local	WIND	134	112
05/12	15	Economic	System	SOLR	20	69
05/12	15	SelfSchCut	Local	SOLR	7	10
05/12	16	Economic	Local	SOLR	2464	3314
05/12	16	Economic	Local	WIND	152	210

05/12	16	SelfSchCut	Local	SOLR	1	6
05/12	17	Economic	Local	SOLR	1499	1788
05/12	17	Economic	Local	WIND	185	214
05/12	17	Economic	System	SOLR	16	69
05/12	18	Economic	Local	SOLR	709	1221
05/12	18	Economic	Local	WIND	43	165
05/12	19	Economic	Local	SOLR	55	227
05/12	19	Economic	System	SOLR	1	

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.