

Wind and Solar Curtailment May 24, 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.

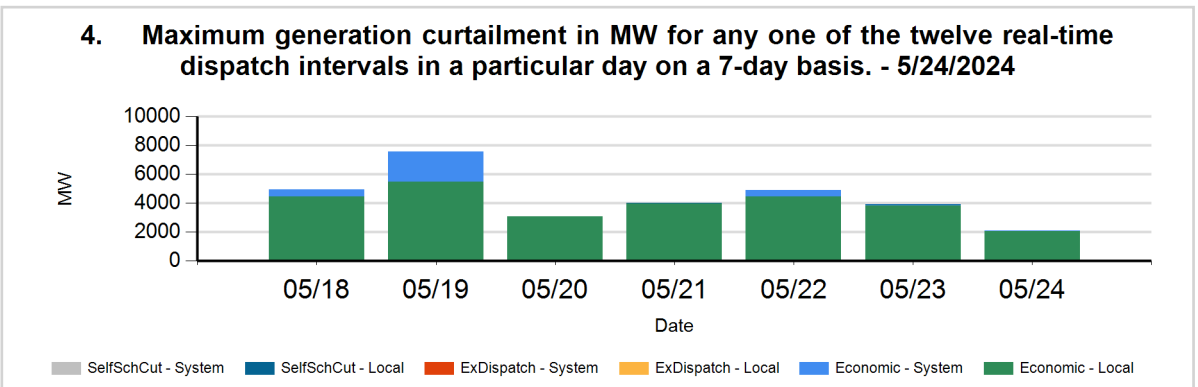
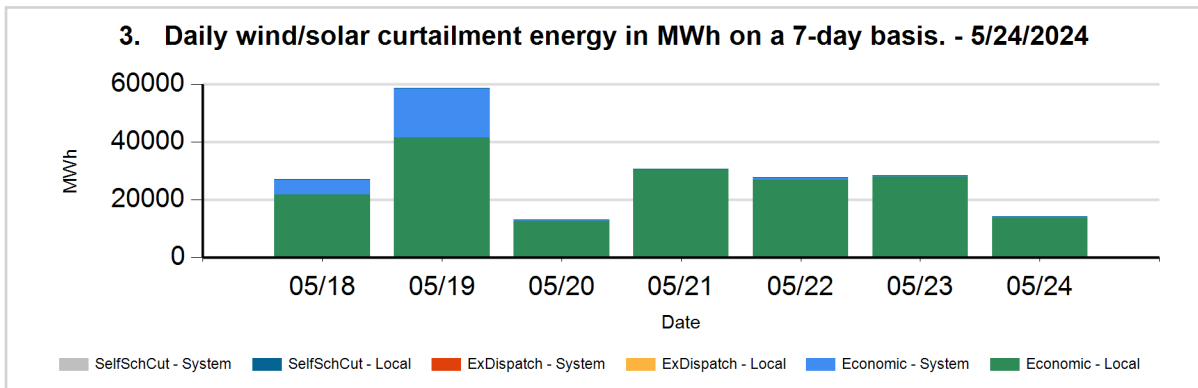
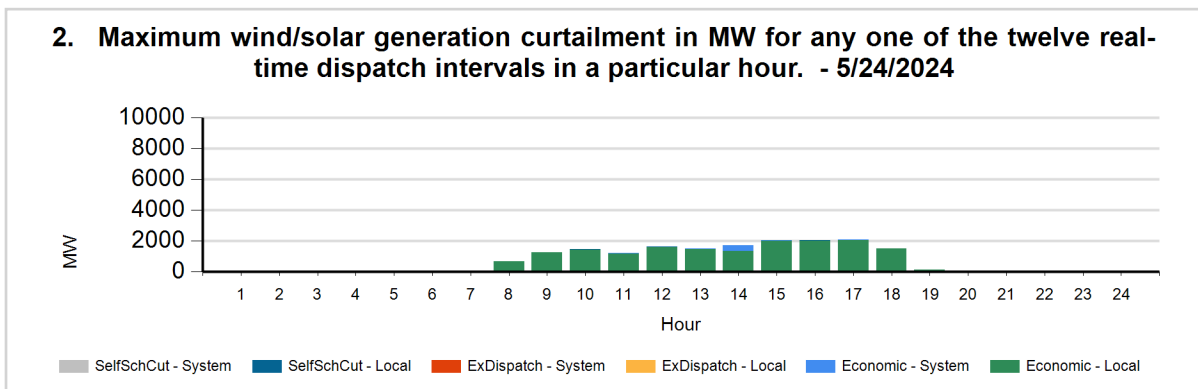
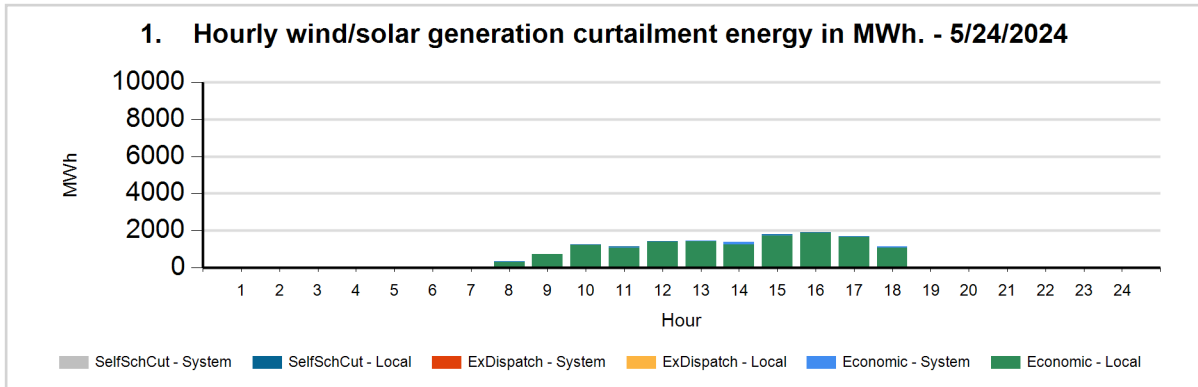
¹Only wind and solar resources can be reported in this manner because these resources have a forecast. Curtailment is defined as the difference between actual production and the forecast when actual production is less than the forecast.

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

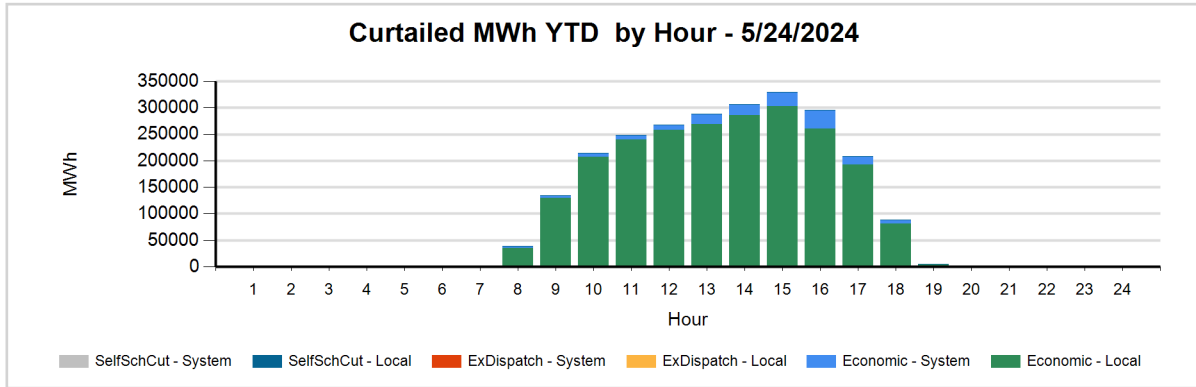
³Congestion occurs when available, least-cost energy cannot be delivered to some loads because transmission facilities do not have sufficient capacity to deliver the energy.

⁴For more information on oversupply conditions, please see: http://www.caiso.com/Documents/FlexibleResourcesHelpRenewables_FastFacts.pdf

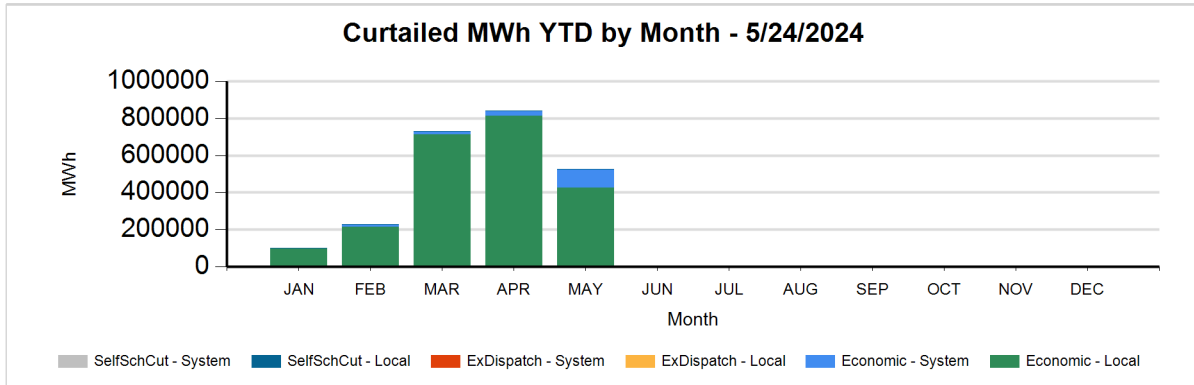
The following charts show the daily and 7-day wind and solar curtailment by category, if any.



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 - 5/24/2024
LocalEconomic	2,267,778
LocalSelfSchCut	1,506
SystemEconomic	156,858
TOTAL	2,426,142

Data used to produce hourly chart

DATE	HOUR	CURT TYPE	REASON	FUEL TYPE	CURTAILED MWH	CURTAILED MW
05/24	8	Economic	Local	SOLR	317	637
05/24	8	Economic	Local	WIND	15	28
05/24	8	Economic	System	SOLR	1	
05/24	9	Economic	Local	SOLR	700	1224
05/24	9	Economic	Local	WIND	30	29
05/24	9	SelfSchCut	Local	SOLR	0	
05/24	10	Economic	Local	SOLR	1211	1399
05/24	10	Economic	Local	WIND	3	19
05/24	10	Economic	System	SOLR	16	35
05/24	10	SelfSchCut	Local	SOLR	1	1
05/24	11	Economic	Local	SOLR	1062	1147
05/24	11	Economic	Local	WIND	11	30
05/24	11	Economic	System	SOLR	49	26
05/24	11	Economic	System	WIND	2	
05/24	11	SelfSchCut	Local	SOLR	1	
05/24	12	Economic	Local	SOLR	1378	1597
05/24	12	Economic	Local	WIND	25	27
05/24	12	Economic	System	SOLR	25	16
05/24	12	SelfSchCut	Local	SOLR	2	1
05/24	13	Economic	Local	SOLR	1404	1449
05/24	13	Economic	Local	WIND	4	23
05/24	13	Economic	System	SOLR	15	26
05/24	13	Economic	System	WIND	14	
05/24	14	Economic	Local	SOLR	1235	1300
05/24	14	Economic	Local	WIND	13	15
05/24	14	Economic	System	SOLR	116	405
05/24	14	Economic	System	WIND	4	
05/24	15	Economic	Local	SOLR	1611	1860
05/24	15	Economic	Local	WIND	110	179
05/24	15	Economic	System	SOLR	36	
05/24	15	Economic	System	WIND	22	14

05/24	15	SelfSchCut	Local	SOLR	1	
05/24	16	Economic	Local	SOLR	1772	1822
05/24	16	Economic	Local	WIND	125	218
05/24	16	Economic	System	WIND	13	14
05/24	16	SelfSchCut	Local	SOLR	1	3
05/24	17	Economic	Local	SOLR	1592	1954
05/24	17	Economic	Local	WIND	68	117
05/24	17	Economic	System	WIND	17	15
05/24	18	Economic	Local	SOLR	1082	1491
05/24	18	Economic	System	SOLR	64	
05/24	19	Economic	Local	SOLR	45	116
05/24	19	Economic	System	SOLR	0	

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.