

Wind and Solar Curtailment May 25, 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.

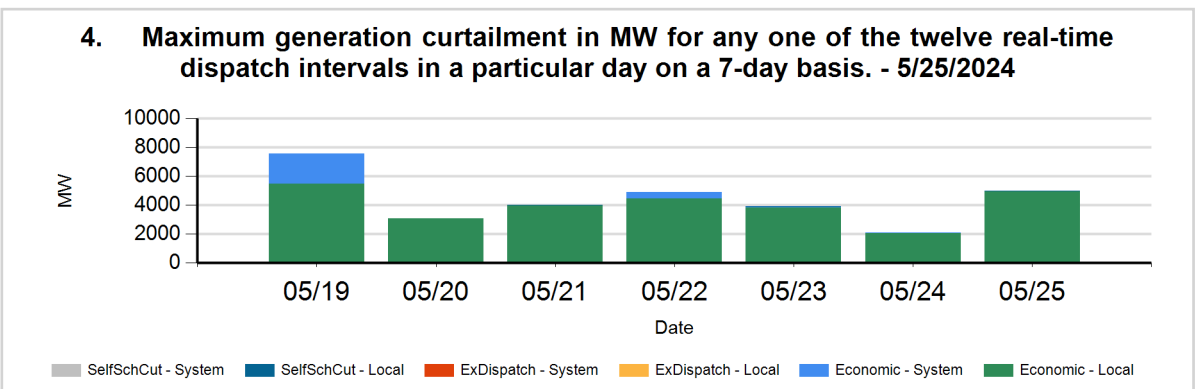
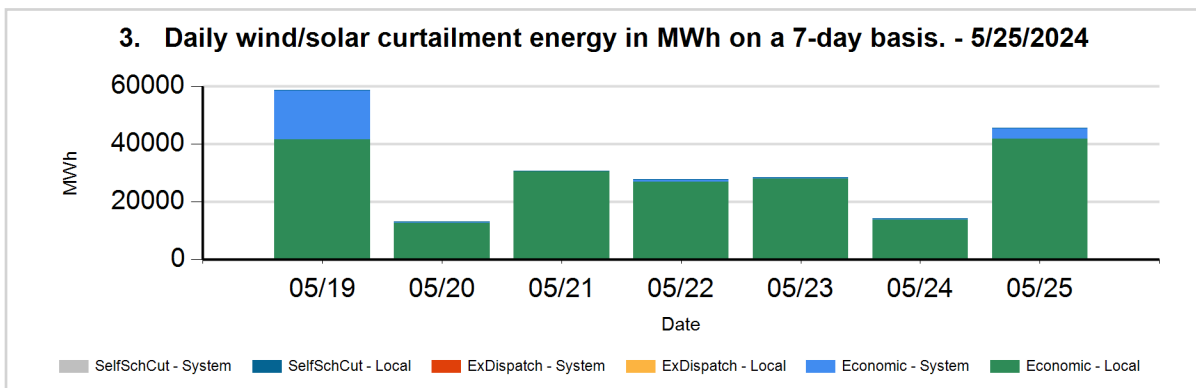
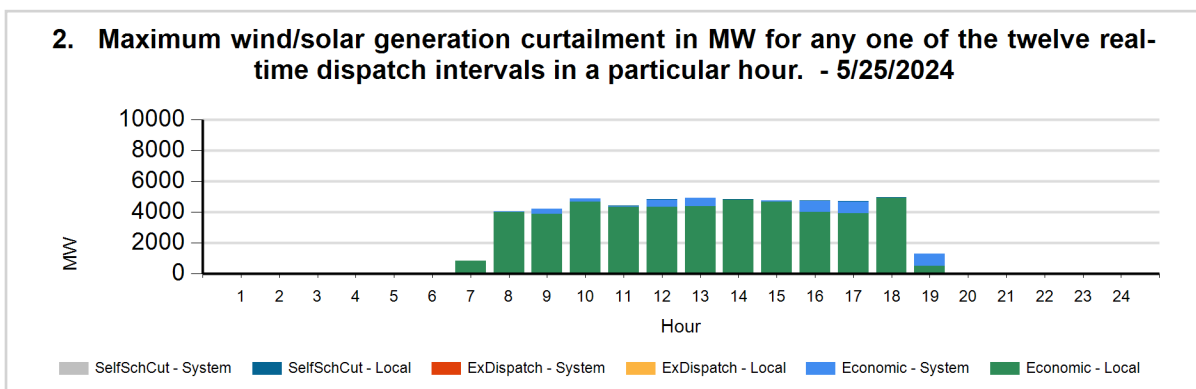
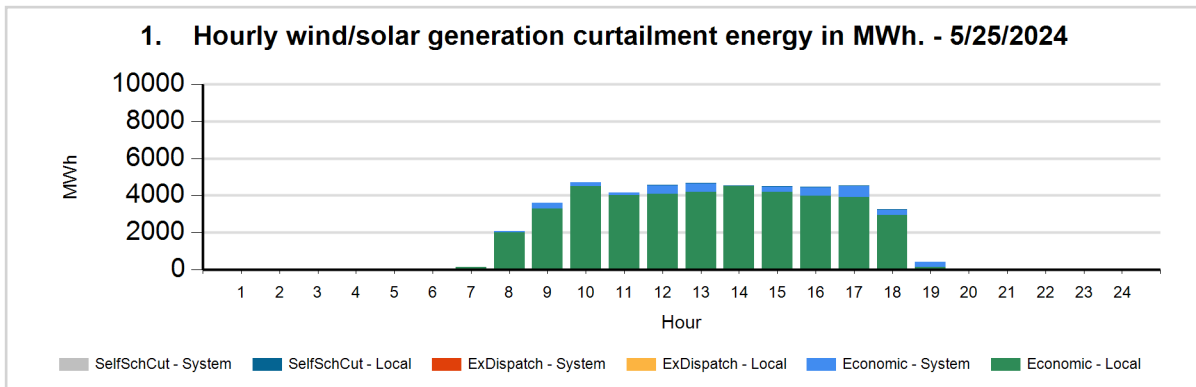
¹Only wind and solar resources can be reported in this manner because these resources have a forecast. Curtailment is defined as the difference between actual production and the forecast when actual production is less than the forecast.

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

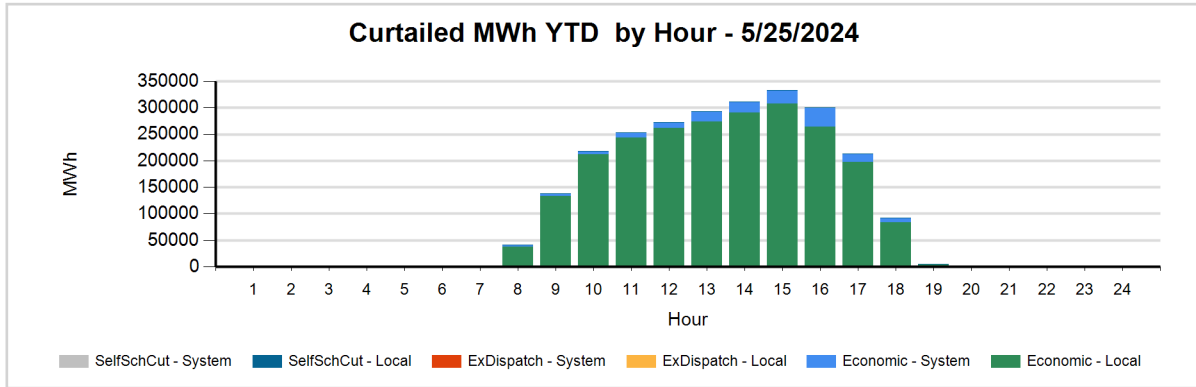
³Congestion occurs when available, least-cost energy cannot be delivered to some loads because transmission facilities do not have sufficient capacity to deliver the energy.

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

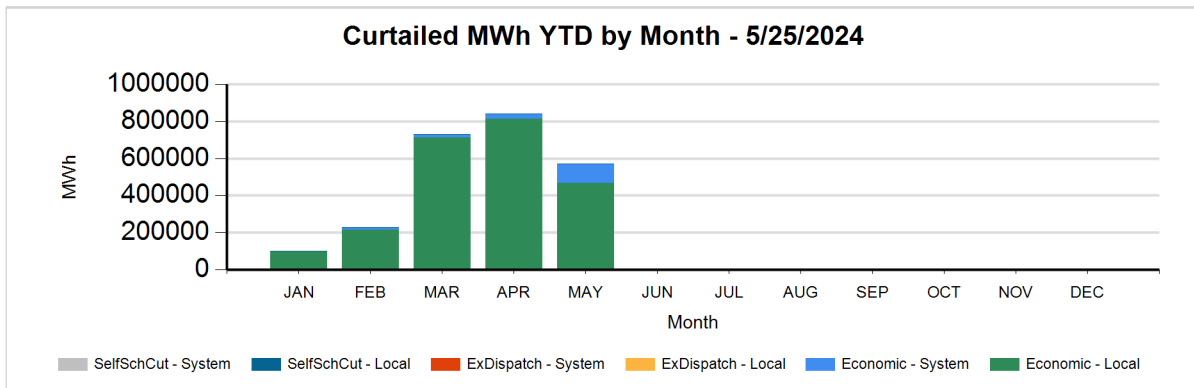
The following charts show the daily and 7-day wind and solar curtailment by category, if any.



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 - 5/25/2024
LocalEconomic	2,309,627
LocalSelfSchCut	1,516
SystemEconomic	160,554
TOTAL	2,471,696

Data used to produce hourly chart

DATE	HOUR	CURT TYPE	REASON	FUEL TYPE	CURTAILED MWH	CURTAILED MW
05/25	7	Economic	Local	SOLR	117	813
05/25	7	Economic	Local	WIND	1	16
05/25	8	Economic	Local	SOLR	1667	3202
05/25	8	Economic	Local	WIND	347	790
05/25	8	Economic	System	SOLR	52	16
05/25	8	Economic	System	WIND	23	37
05/25	9	Economic	Local	SOLR	2580	3123
05/25	9	Economic	Local	WIND	694	764
05/25	9	Economic	System	SOLR	282	299
05/25	9	Economic	System	WIND	35	35
05/25	10	Economic	Local	SOLR	3715	3916
05/25	10	Economic	Local	WIND	779	774
05/25	10	Economic	System	SOLR	189	160
05/25	10	Economic	System	WIND	28	25
05/25	11	Economic	Local	SOLR	3240	3542
05/25	11	Economic	Local	WIND	771	792
05/25	11	Economic	System	SOLR	132	83
05/25	11	Economic	System	WIND	11	19
05/25	11	SelfSchCut	Local	SOLR	0	2
05/25	12	Economic	Local	SOLR	3297	3561
05/25	12	Economic	Local	WIND	791	790
05/25	12	Economic	System	SOLR	435	467
05/25	12	Economic	System	WIND	29	37
05/25	12	SelfSchCut	Local	SOLR	1	1
05/25	13	Economic	Local	SOLR	3459	3564
05/25	13	Economic	Local	WIND	730	800
05/25	13	Economic	System	SOLR	441	494
05/25	13	Economic	System	WIND	37	57
05/25	13	SelfSchCut	Local	SOLR	1	
05/25	14	Economic	Local	SOLR	3688	3918
05/25	14	Economic	Local	WIND	809	904

05/25	14	Economic	System	SOLR	32	5
05/25	14	Economic	System	WIND	15	15
05/25	14	SelfSchCut	Local	SOLR	2	3
05/25	15	Economic	Local	SOLR	3419	3908
05/25	15	Economic	Local	WIND	778	767
05/25	15	Economic	System	SOLR	267	45
05/25	15	Economic	System	WIND	19	20
05/25	15	SelfSchCut	Local	SOLR	1	
05/25	16	Economic	Local	SOLR	3242	3251
05/25	16	Economic	Local	WIND	747	754
05/25	16	Economic	System	SOLR	386	655
05/25	16	Economic	System	WIND	85	79
05/25	16	SelfSchCut	Local	SOLR	1	3
05/25	17	Economic	Local	SOLR	3011	2988
05/25	17	Economic	Local	WIND	903	924
05/25	17	Economic	System	SOLR	541	659
05/25	17	Economic	System	WIND	69	132
05/25	17	SelfSchCut	Local	SOLR	1	2
05/25	18	Economic	Local	SOLR	2452	3973
05/25	18	Economic	Local	WIND	490	968
05/25	18	Economic	System	SOLR	275	18
05/25	18	Economic	System	WIND	18	17
05/25	18	SelfSchCut	Local	SOLR	2	4
05/25	19	Economic	Local	SOLR	123	498
05/25	19	Economic	System	SOLR	275	761
05/25	19	Economic	System	WIND	17	39
05/25	20	Economic	Local	SOLR	1	
05/25	20	Economic	System	SOLR	1	9

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.

