

## Wind and Solar Curtailment May 17, 2024

This report is produced daily to provide a detailed accounting of the wind and solar renewable generation that was curtailed and the reasons why<sup>1</sup>. This report should be read in the context of the Renewables Watch report for a more complete understanding of both renewable curtailment and generation<sup>2</sup>.

Wind and solar curtailments are grouped into the following categories:

1. Economic - Local: Market dispatch of generators with economic bids to mitigate local congestion<sup>3</sup>.
2. Economic - System: Market dispatch of generators with economic bids to mitigate system-wide oversupply<sup>4</sup>.
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.

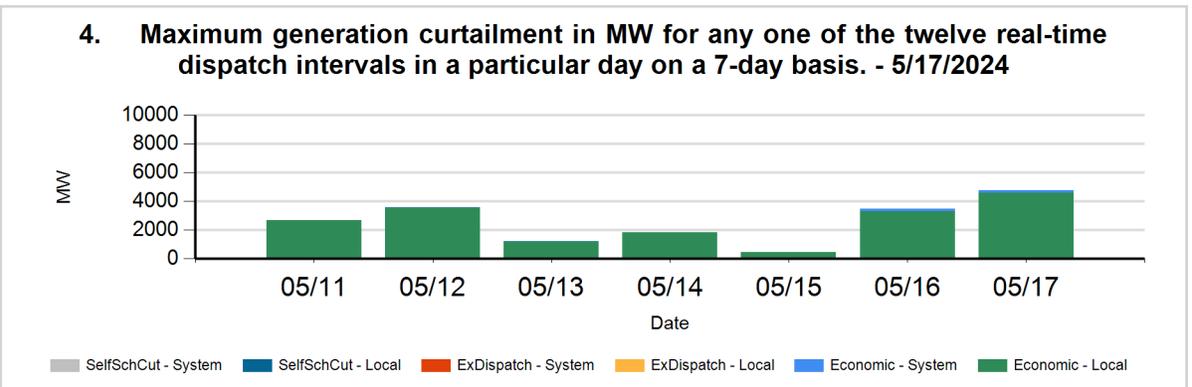
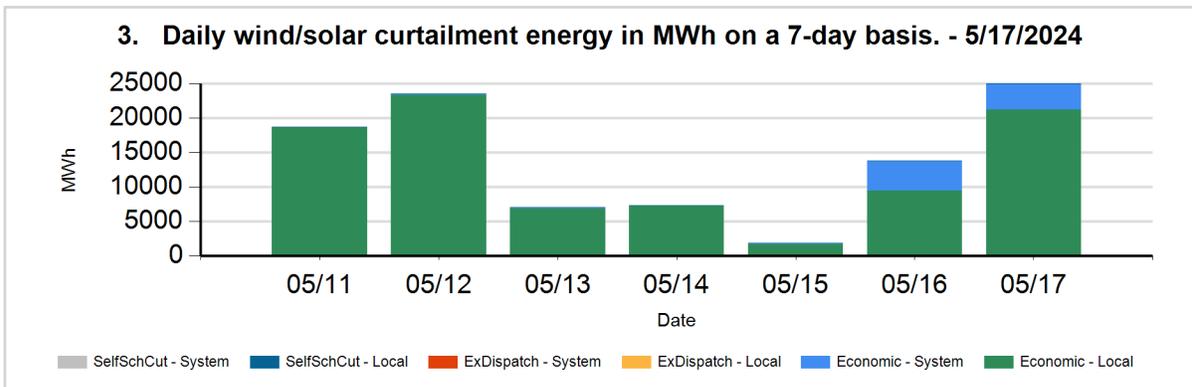
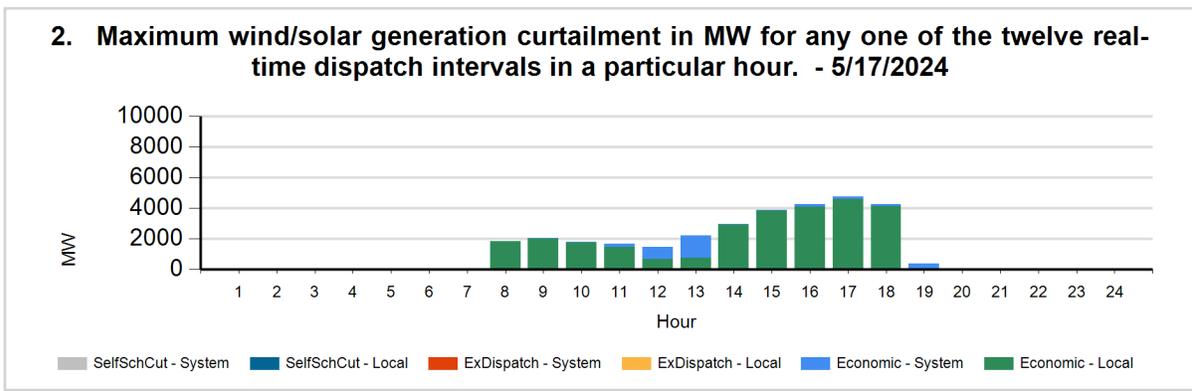
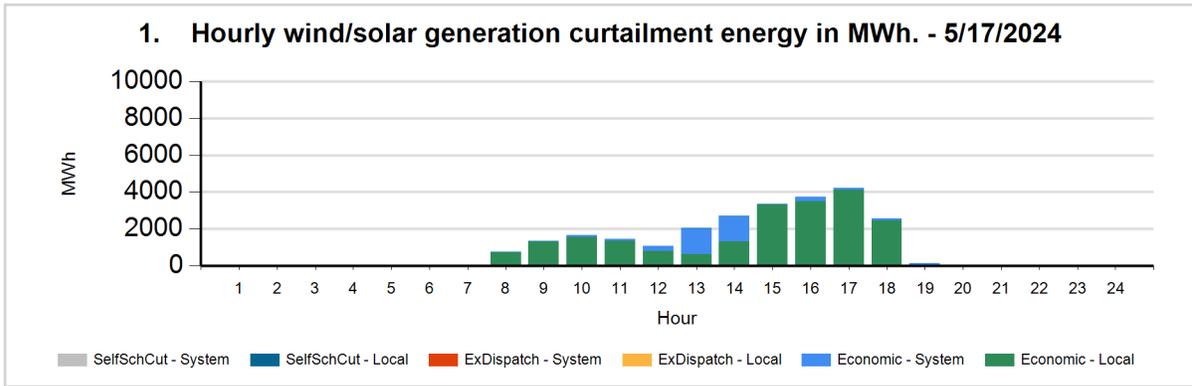
<sup>1</sup>Only wind and solar resources can be reported in this manner because these resources have a forecast. Curtailment is defined as the difference between actual production and the forecast when actual production is less than the forecast.

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

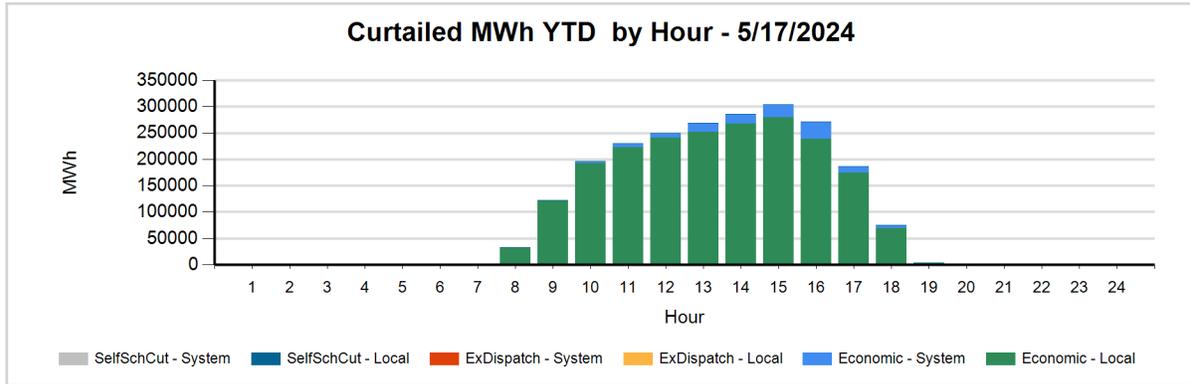
<sup>3</sup>Congestion occurs when available, least-cost energy cannot be delivered to some loads because transmission facilities do not have sufficient capacity to deliver the energy.

<sup>4</sup>For more information on oversupply conditions, please see: [https://www.caiso.com/Documents/FlexibleResourcesHelpRenewables\\_FastFacts.pdf](https://www.caiso.com/Documents/FlexibleResourcesHelpRenewables_FastFacts.pdf)

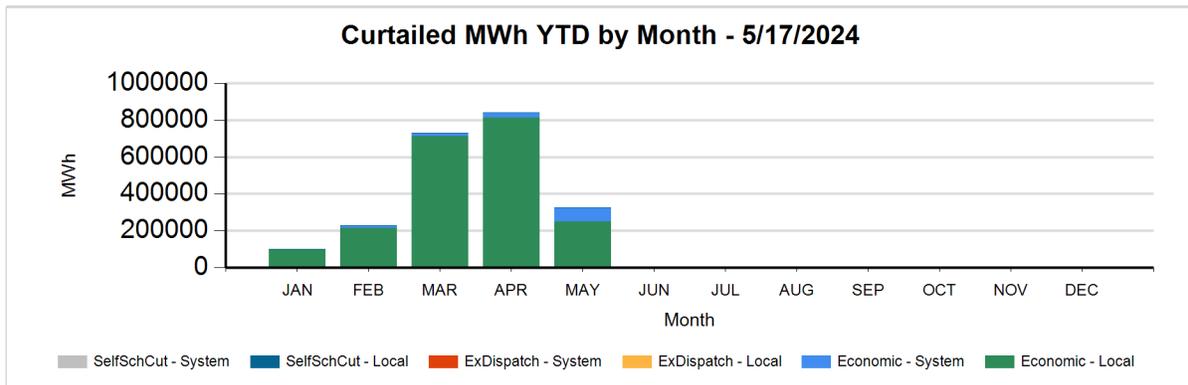
The following charts show the daily and 7-day wind and solar curtailment by category, if any.



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 - 5/17/2024
LocalEconomic	2,092,531
LocalSelfSchCut	1,461
SystemEconomic	132,334
TOTAL	2,226,327

**Data used to produce hourly chart**

DATE	HOUR	CURT TYPE	REASON	FUEL TYPE	CURTAILED MWH	CURTAILED MW
05/17	2	Economic	Local	WIND	6	12
05/17	3	Economic	Local	WIND	2	12
05/17	4	Economic	Local	WIND	0	3
05/17	7	Economic	System	SOLR	1	10
05/17	8	Economic	Local	SOLR	698	1625
05/17	8	Economic	Local	WIND	59	194
05/17	8	Economic	System	SOLR	7	
05/17	9	Economic	Local	SOLR	1239	1670
05/17	9	Economic	Local	WIND	82	322
05/17	9	Economic	System	WIND	11	30
05/17	10	Economic	Local	SOLR	1520	1616
05/17	10	Economic	Local	WIND	37	153
05/17	10	Economic	System	SOLR	61	
05/17	10	Economic	System	WIND	23	22
05/17	11	Economic	Local	SOLR	1352	1467
05/17	11	Economic	Local	WIND	12	2
05/17	11	Economic	System	SOLR	75	185
05/17	11	Economic	System	WIND	5	13
05/17	11	SelfSchCut	Local	SOLR	0	
05/17	12	Economic	Local	SOLR	776	671
05/17	12	Economic	System	SOLR	282	730
05/17	12	Economic	System	WIND	18	51
05/17	12	SelfSchCut	Local	SOLR	0	
05/17	13	Economic	Local	SOLR	636	739
05/17	13	Economic	System	SOLR	1346	1460
05/17	13	Economic	System	WIND	67	5
05/17	13	SelfSchCut	Local	SOLR	1	
05/17	14	Economic	Local	SOLR	1244	2683
05/17	14	Economic	Local	WIND	76	249
05/17	14	Economic	System	SOLR	1242	
05/17	14	Economic	System	WIND	117	29

05/17	14	SelfSchCut	Local	SOLR	5	
05/17	15	Economic	Local	SOLR	2932	3251
05/17	15	Economic	Local	WIND	392	608
05/17	15	Economic	System	SOLR	32	
05/17	15	Economic	System	WIND	9	5
05/17	16	Economic	Local	SOLR	2840	3328
05/17	16	Economic	Local	WIND	668	739
05/17	16	Economic	System	SOLR	235	190
05/17	16	Economic	System	WIND	4	
05/17	17	Economic	Local	SOLR	3377	3765
05/17	17	Economic	Local	WIND	723	821
05/17	17	Economic	System	SOLR	96	135
05/17	17	Economic	System	WIND	14	15
05/17	18	Economic	Local	SOLR	1911	3377
05/17	18	Economic	Local	WIND	545	757
05/17	18	Economic	System	SOLR	78	108
05/17	18	Economic	System	WIND	8	27
05/17	19	Economic	Local	SOLR	40	57
05/17	19	Economic	Local	WIND	2	
05/17	19	Economic	System	SOLR	74	317
05/17	19	Economic	System	WIND	5	14
05/17	20	Economic	System	SOLR	0	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](mailto:ShortTermForecasting@caiso.com).