

## Wind and Solar Curtailment May 11, 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.

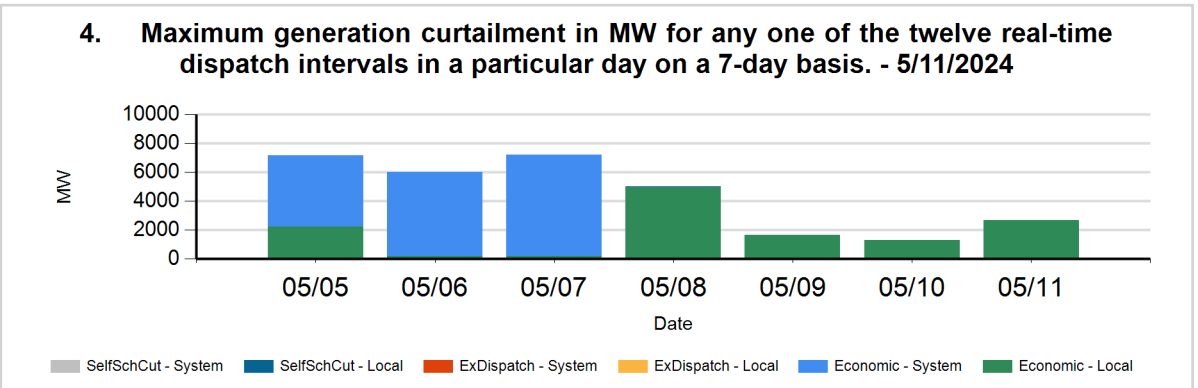
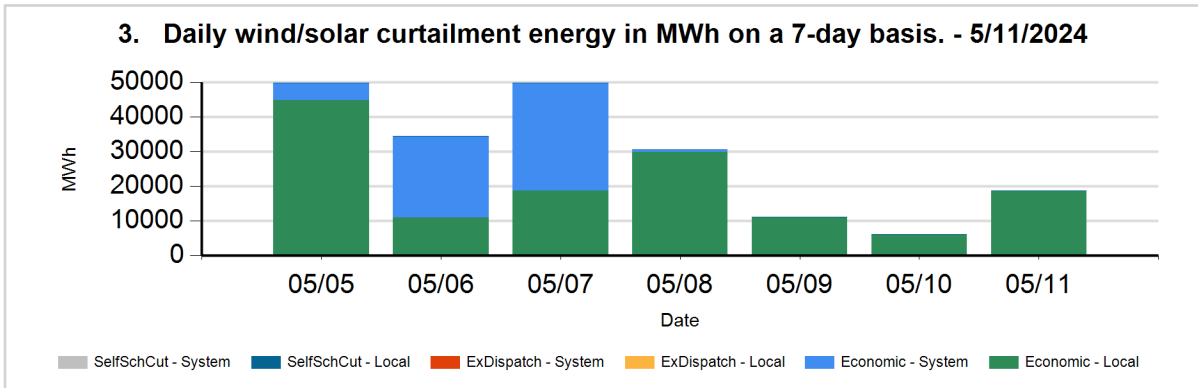
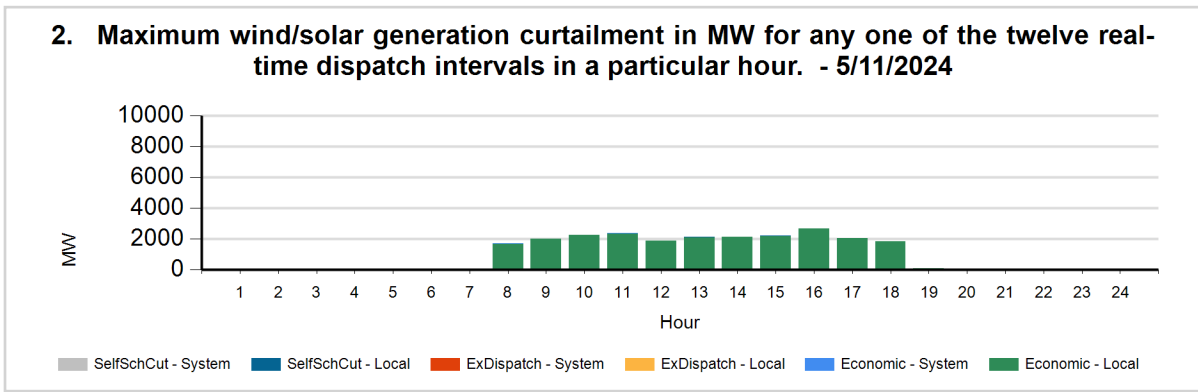
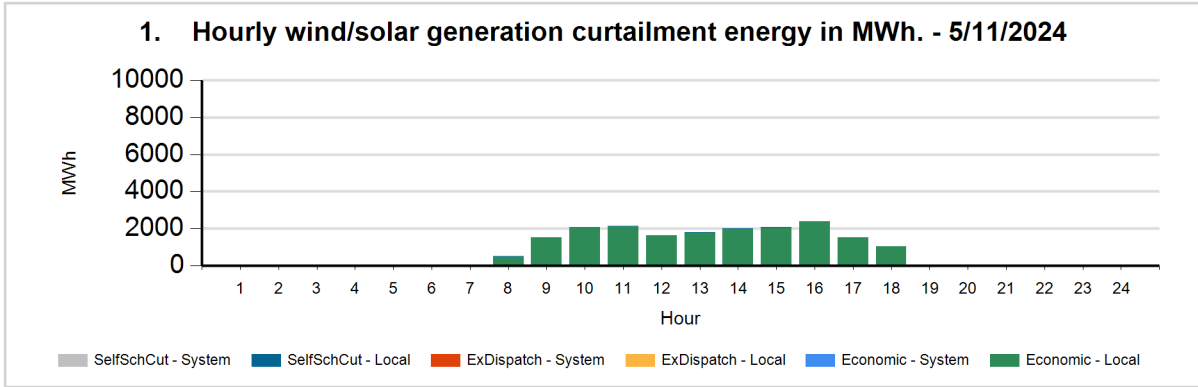
<sup>1</sup>Only wind and solar resources can be reported in this manner because these resources have a forecast. Curtailment is defined as the difference between actual production and the forecast when actual production is less than the forecast.

<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>.

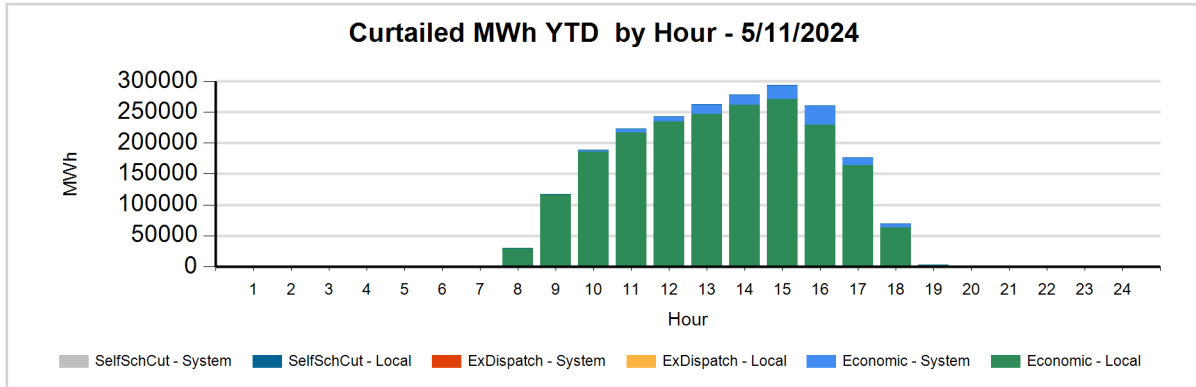
<sup>3</sup>Congestion occurs when available, least-cost energy cannot be delivered to some loads because transmission facilities do not have sufficient capacity to deliver the energy.

<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)

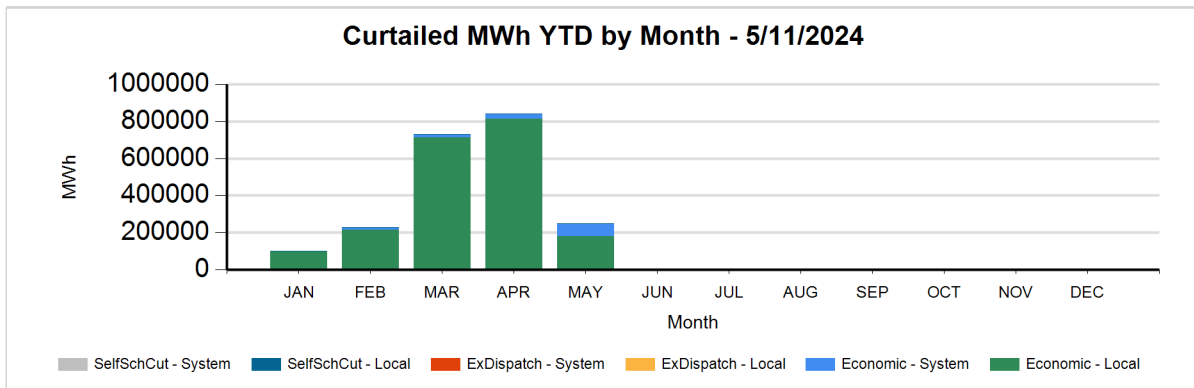
The following charts show the daily and 7-day wind and solar curtailment by category, if any.



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 - 5/11/2024
LocalEconomic	2,022,737
LocalSelfSchCut	1,386
SystemEconomic	123,762
TOTAL	2,147,885

**Data used to produce hourly chart**

DATE	HOUR	CURT TYPE	REASON	FUEL TYPE	CURTAILED MWH	CURTAILED MW
05/11	8	Economic	Local	SOLR	514	1648
05/11	8	Economic	Local	WIND	10	55
05/11	8	Economic	System	SOLR	3	13
05/11	9	Economic	Local	SOLR	1474	1923
05/11	9	Economic	Local	WIND	55	60
05/11	10	Economic	Local	SOLR	2018	2197
05/11	10	Economic	Local	WIND	39	35
05/11	11	Economic	Local	SOLR	2105	2319
05/11	11	Economic	Local	WIND	25	27
05/11	11	Economic	System	SOLR	3	19
05/11	12	Economic	Local	SOLR	1575	1842
05/11	12	Economic	Local	WIND	32	32
05/11	12	SelfSchCut	Local	SOLR	5	
05/11	13	Economic	Local	SOLR	1752	2063
05/11	13	Economic	Local	WIND	50	62
05/11	13	SelfSchCut	Local	SOLR	5	9
05/11	14	Economic	Local	SOLR	1941	2007
05/11	14	Economic	Local	WIND	64	99
05/11	14	SelfSchCut	Local	SOLR	3	
05/11	15	Economic	Local	SOLR	1964	2083
05/11	15	Economic	Local	WIND	123	119
05/11	15	SelfSchCut	Local	SOLR	3	7
05/11	16	Economic	Local	SOLR	2216	2506
05/11	16	Economic	Local	WIND	171	151
05/11	17	Economic	Local	SOLR	1410	1854
05/11	17	Economic	Local	WIND	116	176
05/11	18	Economic	Local	SOLR	921	1625
05/11	18	Economic	Local	WIND	117	206
05/11	19	Economic	Local	SOLR	35	76
05/11	20	Economic	Local	SOLR	0	2

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).