

## Wind and Solar Curtailment April 19, 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.

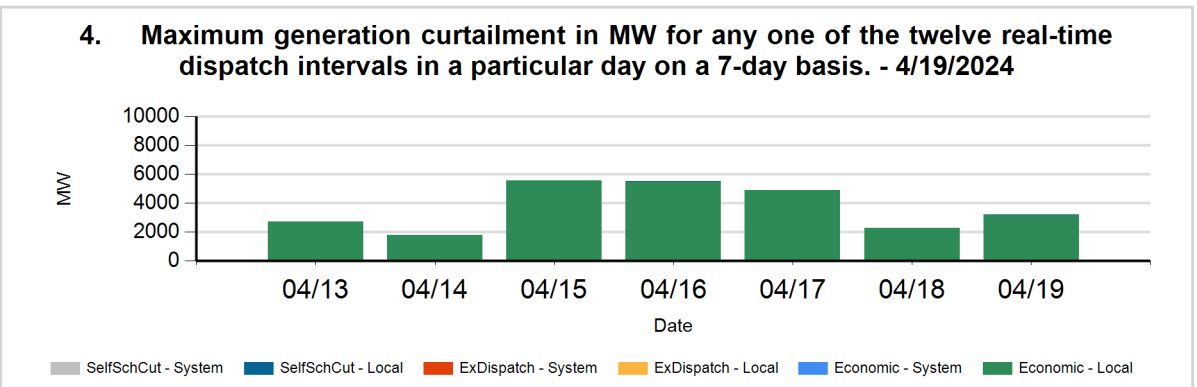
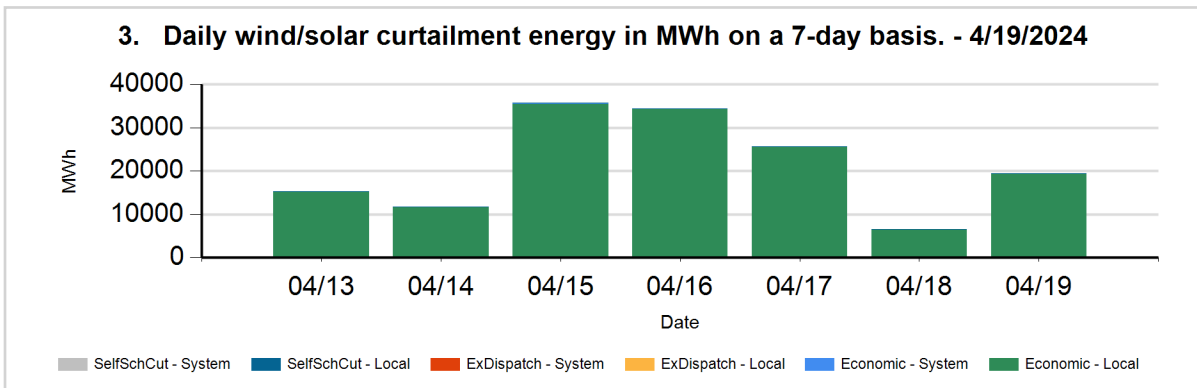
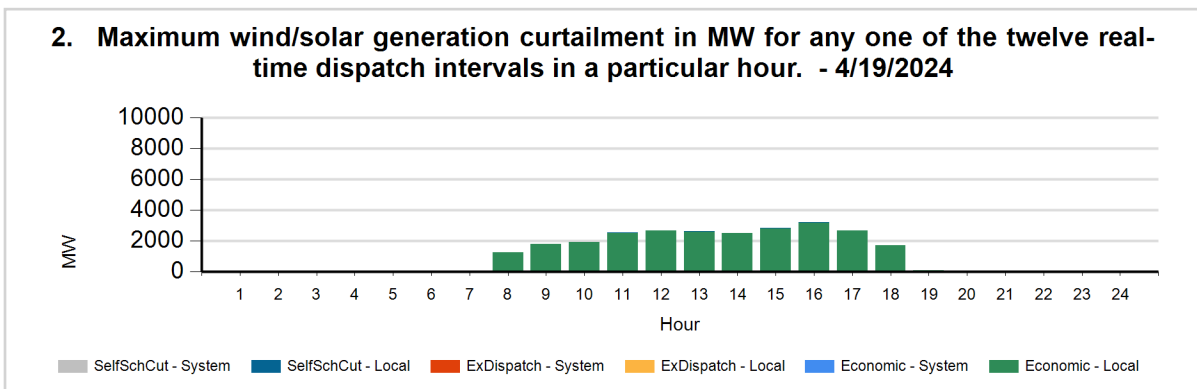
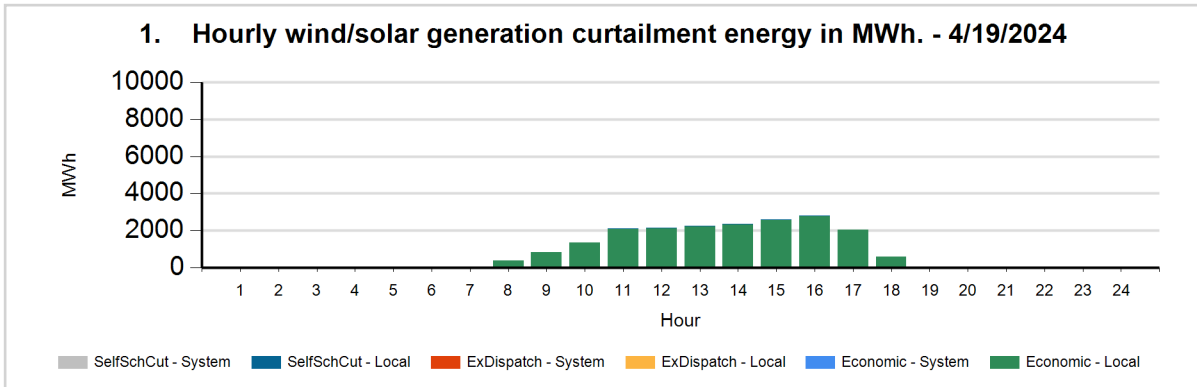
<sup>1</sup>Only wind and solar resources can be reported in this manner because these resources have a forecast. Curtailment is defined as the difference between actual production and the forecast when actual production is less than the forecast.

<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>.

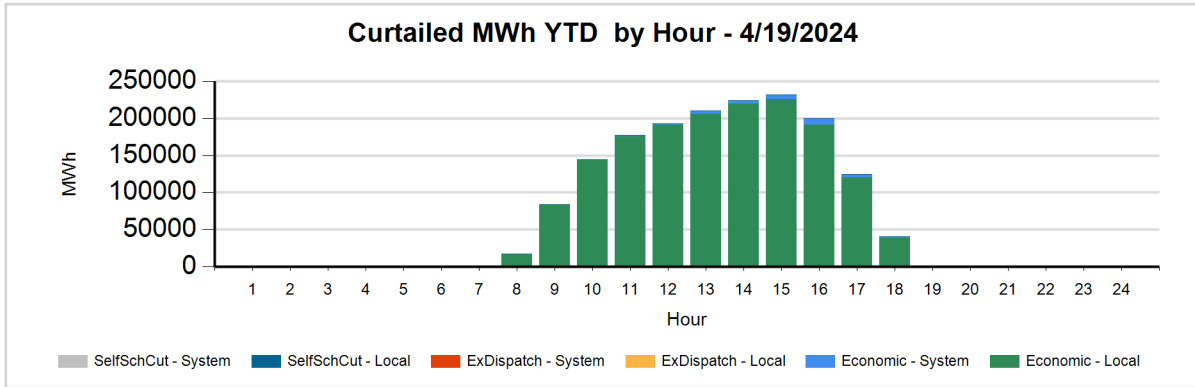
<sup>3</sup>Congestion occurs when available, least-cost energy cannot be delivered to some loads because transmission facilities do not have sufficient capacity to deliver the energy.

<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)

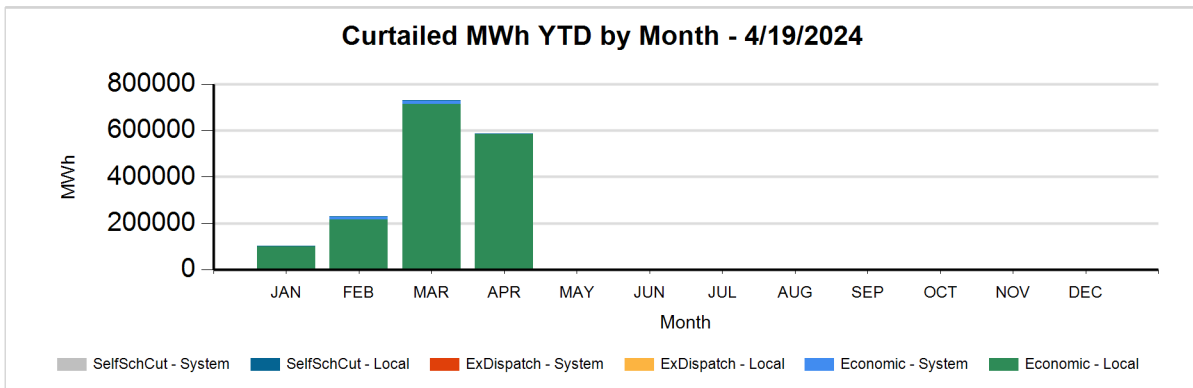
The following charts show the daily and 7-day wind and solar curtailment by category, if any.



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 - 4/19/2024
LocalEconomic	1,613,346
LocalSelfSchCut	921
SystemEconomic	33,502
TOTAL	1,647,769

Data used to produce hourly chart

DATE	HOUR	CURT TYPE	REASON	FUEL TYPE	CURTAILED MWH	CURTAILED MW
04/19	4	Economic	Local	WIND	1	15
04/19	8	Economic	Local	SOLR	348	1152
04/19	8	Economic	Local	WIND	19	90
04/19	9	Economic	Local	SOLR	801	1582
04/19	9	Economic	Local	WIND	41	197
04/19	10	Economic	Local	SOLR	1350	1913
04/19	10	Economic	Local	WIND	2	
04/19	11	Economic	Local	SOLR	2100	2434
04/19	11	Economic	Local	WIND	19	90
04/19	11	SelfSchCut	Local	SOLR	2	9
04/19	12	Economic	Local	SOLR	2078	2437
04/19	12	Economic	Local	WIND	72	222
04/19	12	SelfSchCut	Local	SOLR	2	
04/19	13	Economic	Local	SOLR	2106	2344
04/19	13	Economic	Local	WIND	143	280
04/19	13	SelfSchCut	Local	SOLR	3	1
04/19	14	Economic	Local	SOLR	2147	2263
04/19	14	Economic	Local	WIND	200	227
04/19	14	SelfSchCut	Local	SOLR	5	
04/19	15	Economic	Local	SOLR	2262	2448
04/19	15	Economic	Local	WIND	338	369
04/19	15	SelfSchCut	Local	SOLR	5	6
04/19	16	Economic	Local	SOLR	2453	2814
04/19	16	Economic	Local	WIND	331	379
04/19	16	SelfSchCut	Local	SOLR	2	8
04/19	17	Economic	Local	SOLR	1875	2446
04/19	17	Economic	Local	WIND	153	199
04/19	18	Economic	Local	SOLR	576	1544
04/19	18	Economic	Local	WIND	21	163
04/19	19	Economic	Local	SOLR	23	93
04/19	22	Economic	Local	WIND	0	2
04/19	22	Economic	System	WIND	0	
04/19	23	Economic	Local	WIND	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).