

## Wind and Solar Curtailment April 12, 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.

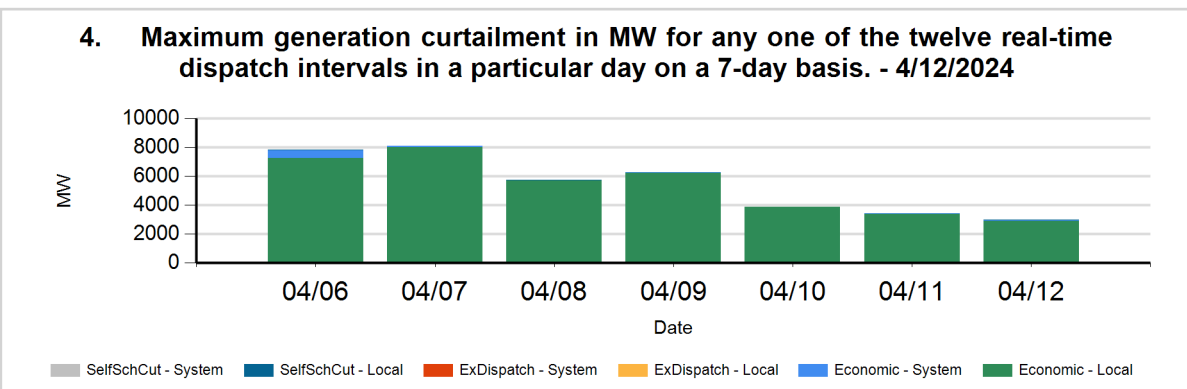
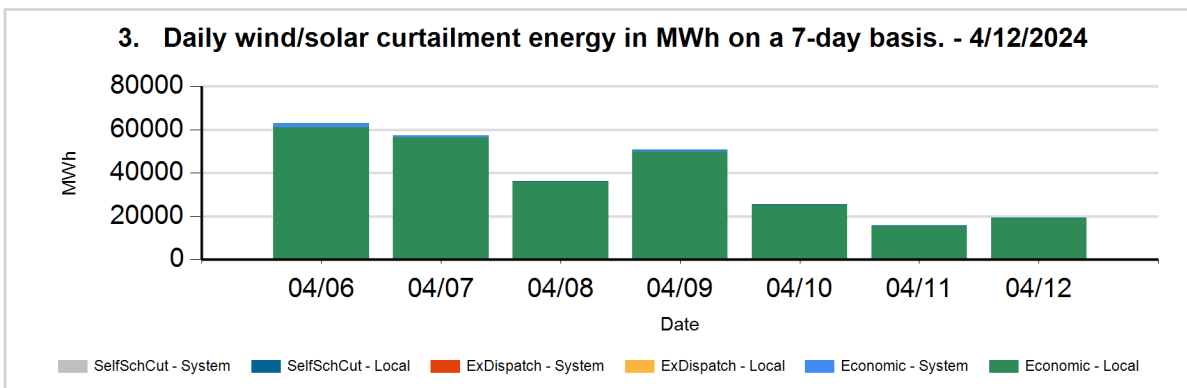
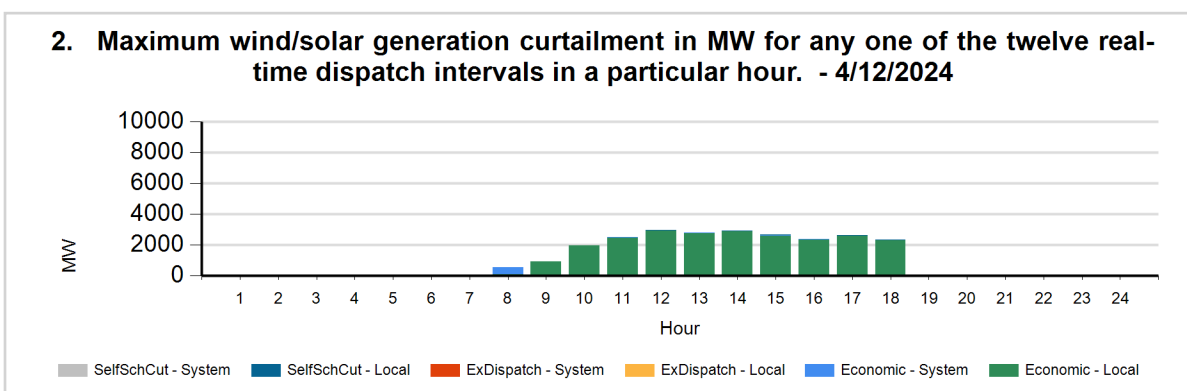
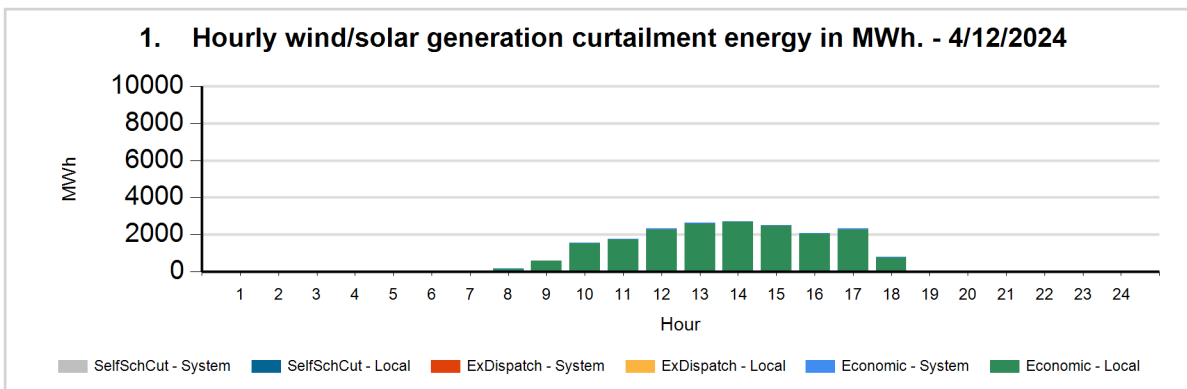
<sup>1</sup>Only wind and solar resources can be reported in this manner because these resources have a forecast. Curtailment is defined as the difference between actual production and the forecast when actual production is less than the forecast.

<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>.

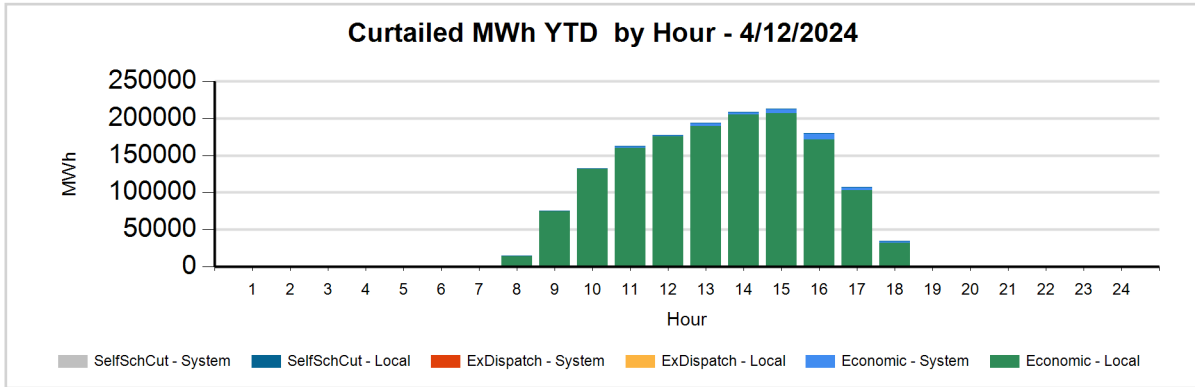
<sup>3</sup>Congestion occurs when available, least-cost energy cannot be delivered to some loads because transmission facilities do not have sufficient capacity to deliver the energy.

<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)

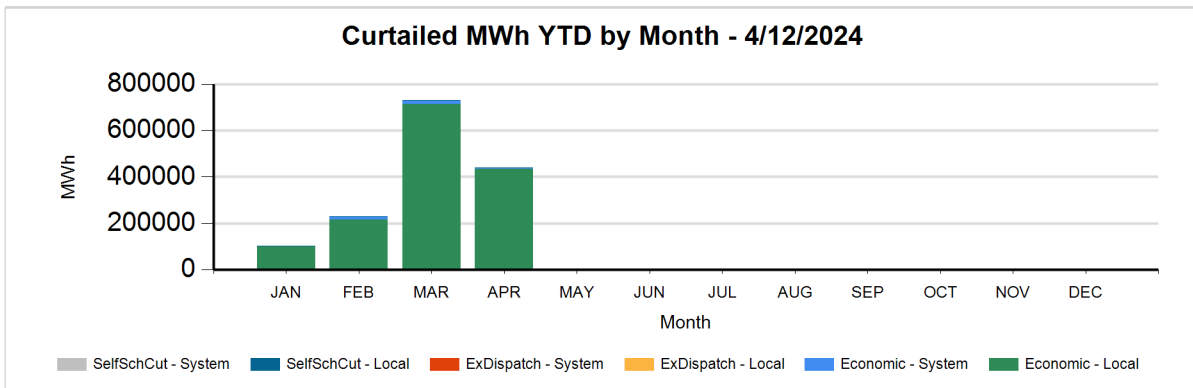
The following charts show the daily and 7-day wind and solar curtailment by category, if any.



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 - 4/12/2024
LocalEconomic	1,465,186
LocalSelfSchCut	808
SystemEconomic	33,196
<b>TOTAL</b>	<b>1,499,190</b>

Data used to produce hourly chart

DATE	HOUR	CURT TYPE	REASON	FUEL TYPE	CURTAILED MWH	CURTAILED MW
04/12	8	Economic	Local	SOLR	137	91
04/12	8	Economic	Local	WIND	8	6
04/12	8	Economic	System	SOLR	37	445
04/12	8	Economic	System	WIND	1	9
04/12	9	Economic	Local	SOLR	526	869
04/12	9	Economic	Local	WIND	47	28
04/12	10	Economic	Local	SOLR	1418	1728
04/12	10	Economic	Local	WIND	122	210
04/12	10	Economic	System	SOLR	8	
04/12	11	Economic	Local	SOLR	1555	2294
04/12	11	Economic	Local	WIND	183	208
04/12	11	Economic	System	SOLR	7	9
04/12	11	SelfSchCut	Local	SOLR	0	
04/12	12	Economic	Local	SOLR	2113	2770
04/12	12	Economic	Local	WIND	163	138
04/12	12	Economic	System	SOLR	8	8
04/12	12	Economic	System	WIND	13	28
04/12	12	SelfSchCut	Local	SOLR	12	14
04/12	13	Economic	Local	SOLR	2329	2479
04/12	13	Economic	Local	WIND	265	314
04/12	13	Economic	System	SOLR	9	9
04/12	13	Economic	System	WIND	4	
04/12	13	SelfSchCut	Local	SOLR	5	
04/12	14	Economic	Local	SOLR	2445	2529
04/12	14	Economic	Local	WIND	243	376
04/12	14	Economic	System	SOLR	8	8
04/12	14	SelfSchCut	Local	SOLR	6	2
04/12	15	Economic	Local	SOLR	2241	2373
04/12	15	Economic	Local	WIND	238	262
04/12	15	Economic	System	SOLR	7	8
04/12	15	Economic	System	WIND	1	

04/12	15	SelfSchCut	Local	SOLR	11	13
04/12	16	Economic	Local	SOLR	2039	2234
04/12	16	Economic	Local	WIND	32	114
04/12	16	Economic	System	SOLR	2	7
04/12	16	Economic	System	WIND	11	29
04/12	16	SelfSchCut	Local	SOLR	0	
04/12	17	Economic	Local	SOLR	2217	2473
04/12	17	Economic	Local	WIND	51	117
04/12	17	Economic	System	SOLR	2	
04/12	17	Economic	System	WIND	13	36
04/12	17	SelfSchCut	Local	SOLR	18	19
04/12	18	Economic	Local	SOLR	750	2078
04/12	18	Economic	Local	WIND	32	237
04/12	18	Economic	System	SOLR	13	7
04/12	18	SelfSchCut	Local	SOLR	0	2
04/12	19	Economic	Local	SOLR	5	41
04/12	19	Economic	System	SOLR	2	6

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).