

## Wind and Solar Curtailment April 04, 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.

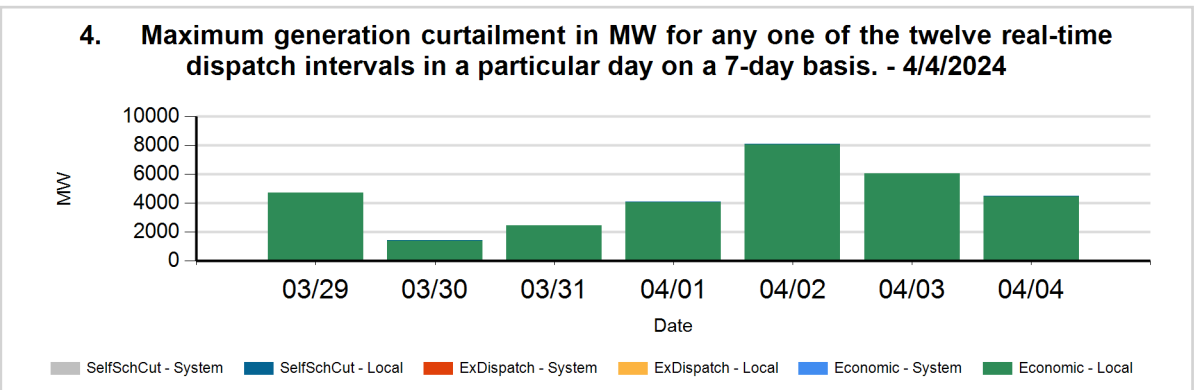
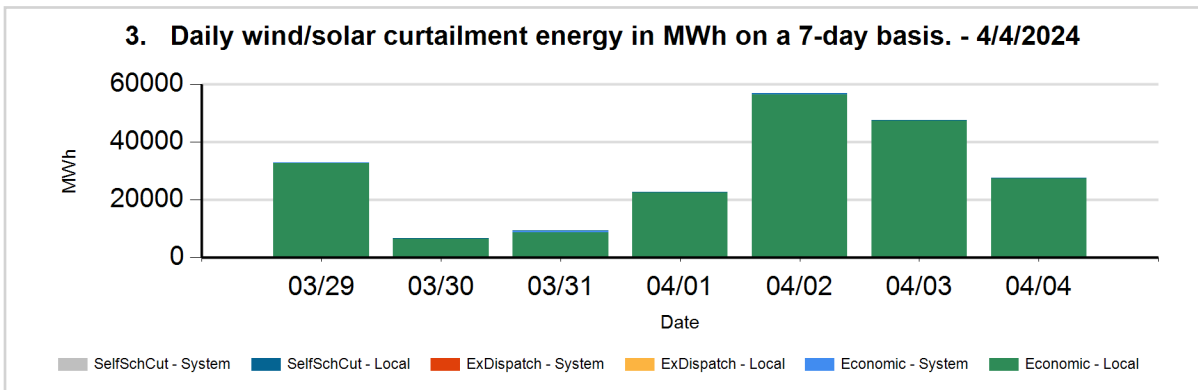
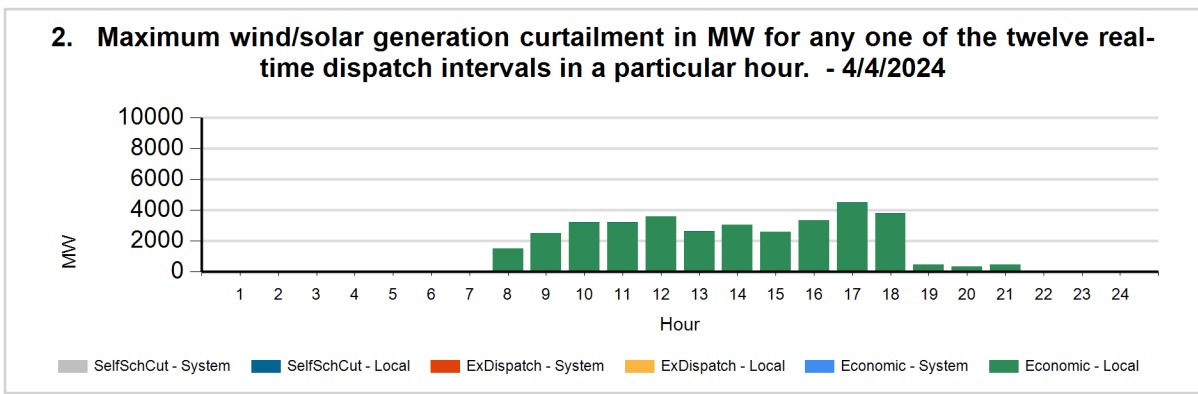
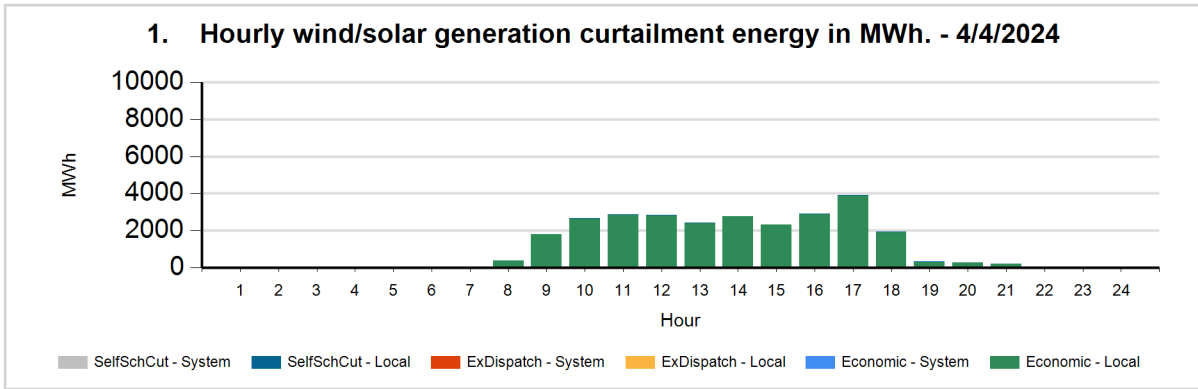
<sup>1</sup>Only wind and solar resources can be reported in this manner because these resources have a forecast. Curtailment is defined as the difference between actual production and the forecast when actual production is less than the forecast.

<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>.

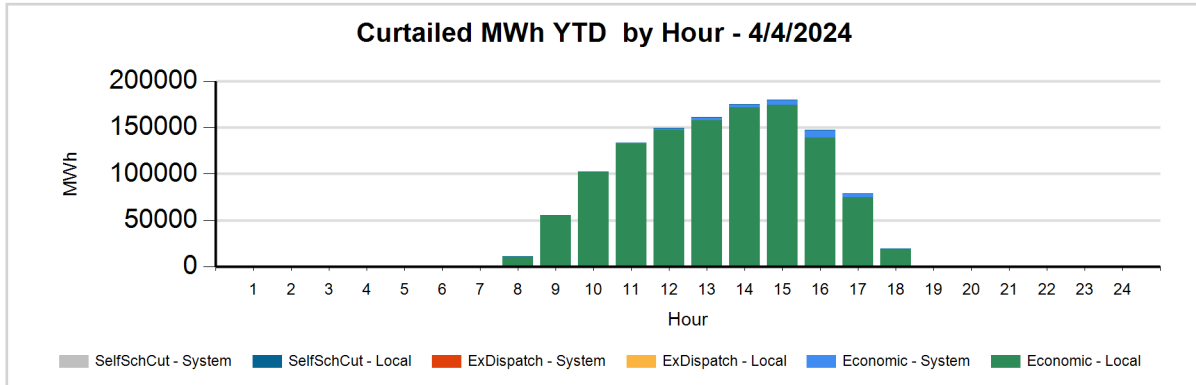
<sup>3</sup>Congestion occurs when available, least-cost energy cannot be delivered to some loads because transmission facilities do not have sufficient capacity to deliver the energy.

<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)

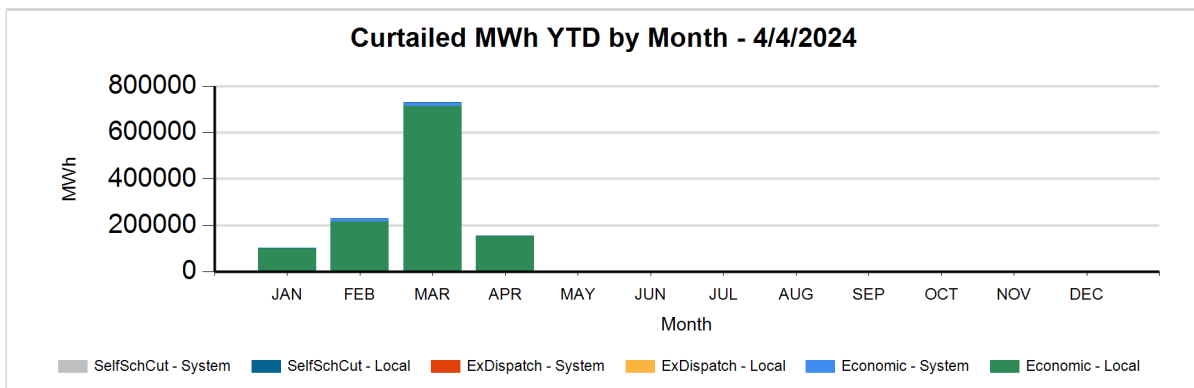
The following charts show the daily and 7-day wind and solar curtailment by category, if any.



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 - 4/4/2024
LocalEconomic	1,184,704
LocalSelfSchCut	570
SystemEconomic	29,766
TOTAL	1,215,040

**Data used to produce hourly chart**

DATE	HOUR	CURT TYPE	REASON	FUEL TYPE	CURTAILED MWH	CURTAILED MW
04/04	3	Economic	System	WIND	0	2
04/04	8	Economic	Local	SOLR	384	1393
04/04	8	Economic	Local	WIND	9	89
04/04	9	Economic	Local	SOLR	1422	2152
04/04	9	Economic	Local	WIND	360	351
04/04	10	Economic	Local	SOLR	2267	2767
04/04	10	Economic	Local	WIND	374	443
04/04	10	Economic	System	SOLR	2	
04/04	10	Economic	System	WIND	2	
04/04	10	SelfSchCut	Local	SOLR	10	3
04/04	11	Economic	Local	SOLR	2432	2796
04/04	11	Economic	Local	WIND	410	420
04/04	11	SelfSchCut	Local	SOLR	14	2
04/04	12	Economic	Local	SOLR	2403	3096
04/04	12	Economic	Local	WIND	427	487
04/04	12	Economic	System	SOLR	5	
04/04	12	SelfSchCut	Local	SOLR	6	
04/04	13	Economic	Local	SOLR	2026	2196
04/04	13	Economic	Local	WIND	401	404
04/04	13	SelfSchCut	Local	SOLR	3	4
04/04	14	Economic	Local	SOLR	2319	2569
04/04	14	Economic	Local	WIND	434	484
04/04	15	Economic	Local	SOLR	1887	2124
04/04	15	Economic	Local	WIND	426	439
04/04	16	Economic	Local	SOLR	2447	2875
04/04	16	Economic	Local	WIND	465	451
04/04	16	SelfSchCut	Local	SOLR	1	
04/04	17	Economic	Local	SOLR	3419	4055
04/04	17	Economic	Local	WIND	470	440
04/04	17	Economic	System	SOLR	7	
04/04	17	SelfSchCut	Local	SOLR	7	8

04/04	18	Economic	Local	SOLR	1545	3163
04/04	18	Economic	Local	WIND	379	612
04/04	18	SelfSchCut	Local	SOLR	6	12
04/04	19	Economic	Local	SOLR	42	181
04/04	19	Economic	Local	WIND	283	292
04/04	19	Economic	System	SOLR	2	
04/04	20	Economic	Local	WIND	283	316
04/04	21	Economic	Local	WIND	203	443

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).