

## Wind and Solar Curtailment April 02, 2023

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.

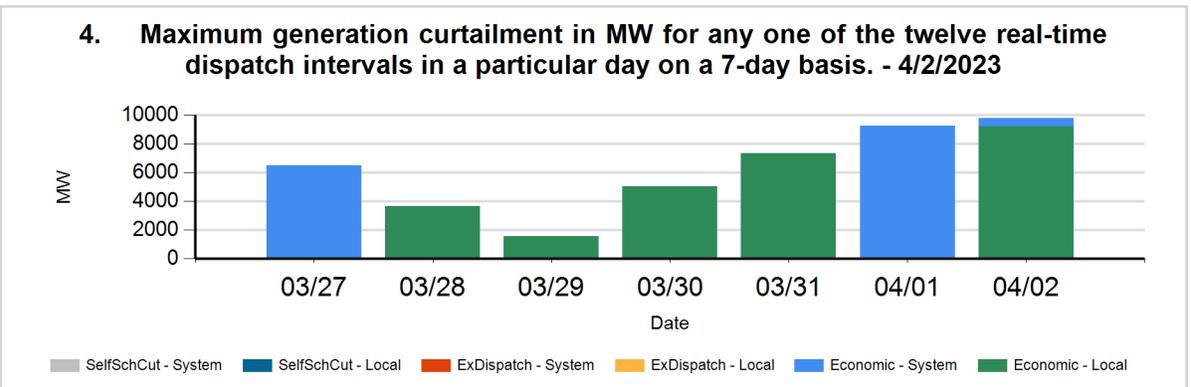
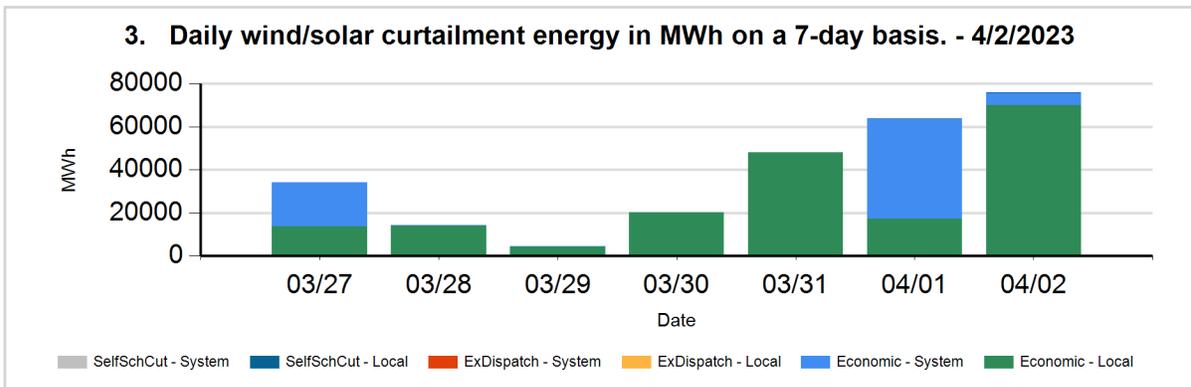
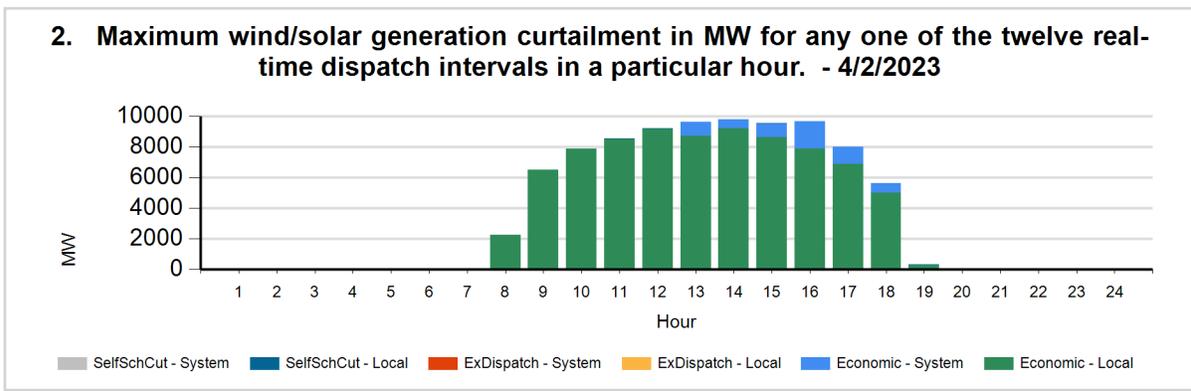
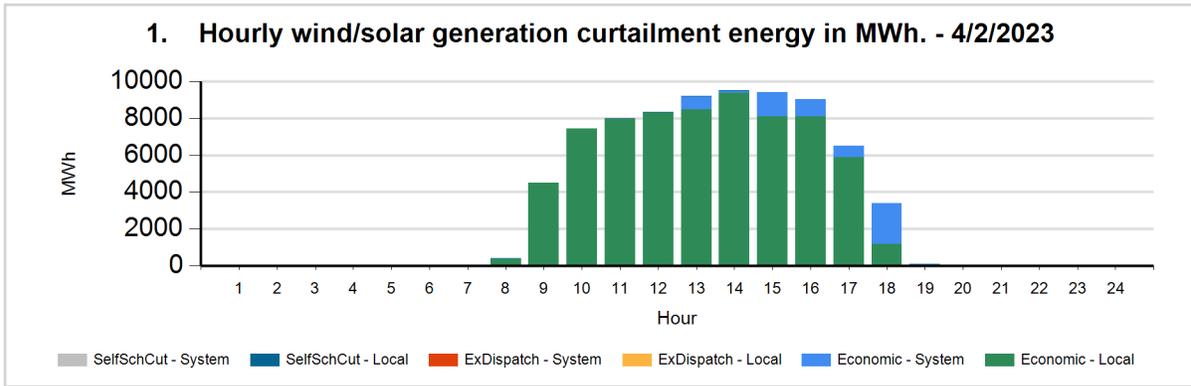
<sup>1</sup>Only wind and solar resources can be reported in this manner because these resources have a forecast. Curtailment is defined as the difference between actual production and the forecast when actual production is less than the forecast.

<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>.

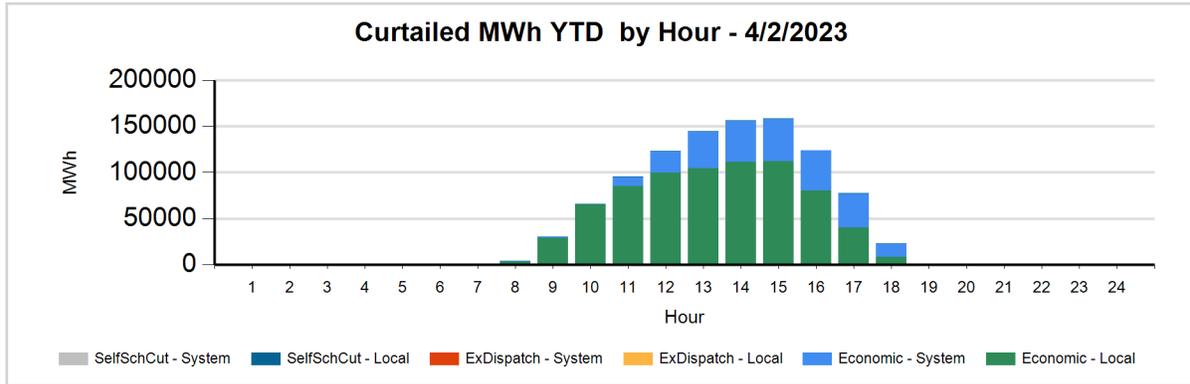
<sup>3</sup>Congestion occurs when available, least-cost energy cannot be delivered to some loads because transmission facilities do not have sufficient capacity to deliver the energy.

<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)

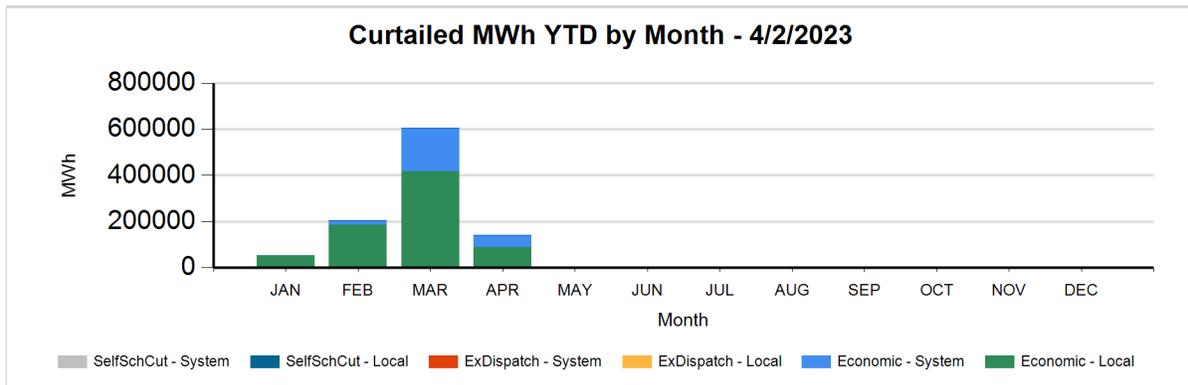
The following charts show the daily and 7-day wind and solar curtailment by category, if any.



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 - 4/2/2023
LocalEconomic	739,280
LocalSelfSchCut	31
SystemEconomic	263,672
TOTAL	1,002,982

**Data used to produce hourly chart**

DATE	HOUR	CURT TYPE	REASON	FUEL TYPE	CURTAILED MWH	CURTAILED MW
04/02	6	Economic	Local	WIND	1	15
04/02	6	Economic	System	WIND	0	
04/02	8	Economic	Local	SOLR	408	2193
04/02	8	Economic	Local	WIND	12	40
04/02	8	Economic	System	SOLR	1	
04/02	9	Economic	Local	SOLR	4256	6045
04/02	9	Economic	Local	WIND	239	478
04/02	10	Economic	Local	SOLR	6937	7352
04/02	10	Economic	Local	WIND	491	540
04/02	11	Economic	Local	SOLR	7418	7896
04/02	11	Economic	Local	WIND	540	643
04/02	11	Economic	System	SOLR	2	
04/02	11	Economic	System	WIND	33	28
04/02	11	SelfSchCut	Local	SOLR	2	4
04/02	12	Economic	Local	SOLR	7717	8513
04/02	12	Economic	Local	WIND	619	705
04/02	12	Economic	System	SOLR	2	
04/02	12	Economic	System	WIND	3	
04/02	12	SelfSchCut	Local	SOLR	3	6
04/02	13	Economic	Local	SOLR	7719	7840
04/02	13	Economic	Local	WIND	761	865
04/02	13	Economic	System	SOLR	706	920
04/02	13	Economic	System	WIND	6	19
04/02	13	SelfSchCut	Local	SOLR	2	
04/02	14	Economic	Local	SOLR	8401	8096
04/02	14	Economic	Local	WIND	981	1121
04/02	14	Economic	System	SOLR	109	482
04/02	14	Economic	System	WIND	24	85
04/02	14	SelfSchCut	Local	SOLR	1	
04/02	15	Economic	Local	SOLR	7097	7602
04/02	15	Economic	Local	WIND	1014	1014

04/02	15	Economic	System	SOLR	1133	799
04/02	15	Economic	System	WIND	152	140
04/02	15	SelfSchCut	Local	SOLR	0	2
04/02	16	Economic	Local	SOLR	7022	6794
04/02	16	Economic	Local	WIND	1085	1108
04/02	16	Economic	System	SOLR	805	1544
04/02	16	Economic	System	WIND	123	243
04/02	17	Economic	Local	SOLR	5177	6019
04/02	17	Economic	Local	WIND	693	863
04/02	17	Economic	System	SOLR	615	1071
04/02	17	Economic	System	WIND	18	36
04/02	18	Economic	Local	SOLR	1040	4415
04/02	18	Economic	Local	WIND	120	604
04/02	18	Economic	System	SOLR	2055	590
04/02	18	Economic	System	WIND	181	12
04/02	19	Economic	Local	SOLR	70	311
04/02	19	Economic	Local	WIND	1	7
04/02	19	Economic	System	SOLR	4	
04/02	19	Economic	System	WIND	16	15
04/02	20	Economic	Local	WIND	7	
04/02	20	Economic	System	WIND	7	15
04/02	21	Economic	Local	WIND	4	
04/02	21	Economic	System	WIND	11	15
04/02	22	Economic	Local	WIND	5	15
04/02	22	Economic	System	WIND	10	
04/02	23	Economic	Local	WIND	4	
04/02	23	Economic	System	WIND	11	15
04/02	24	Economic	Local	WIND	11	14
04/02	24	Economic	System	WIND	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).

