

## Wind and Solar Curtailment April 17, 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.

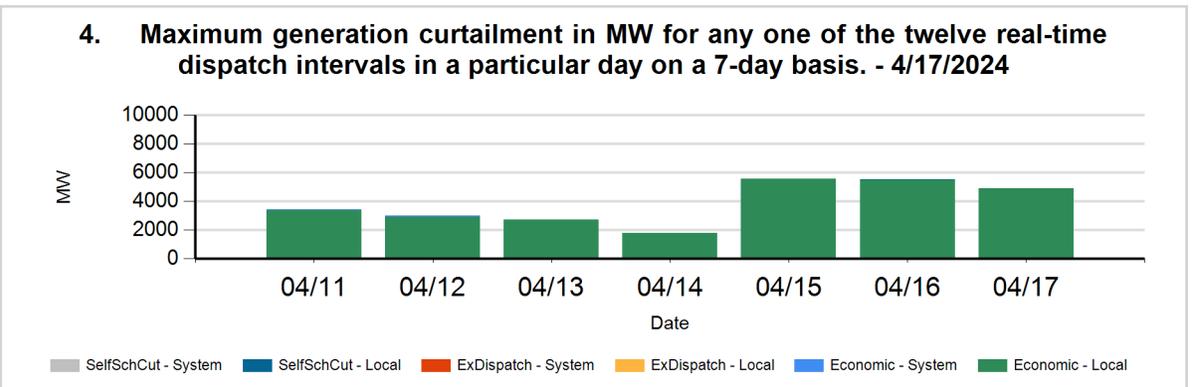
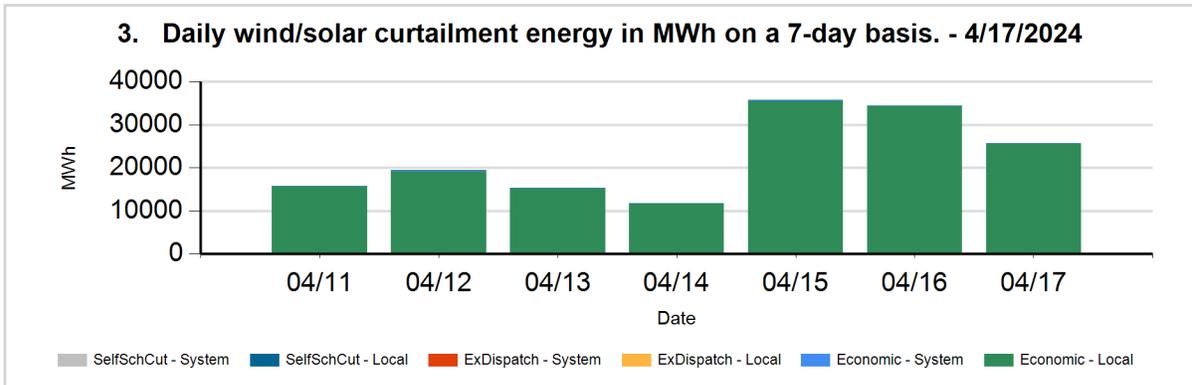
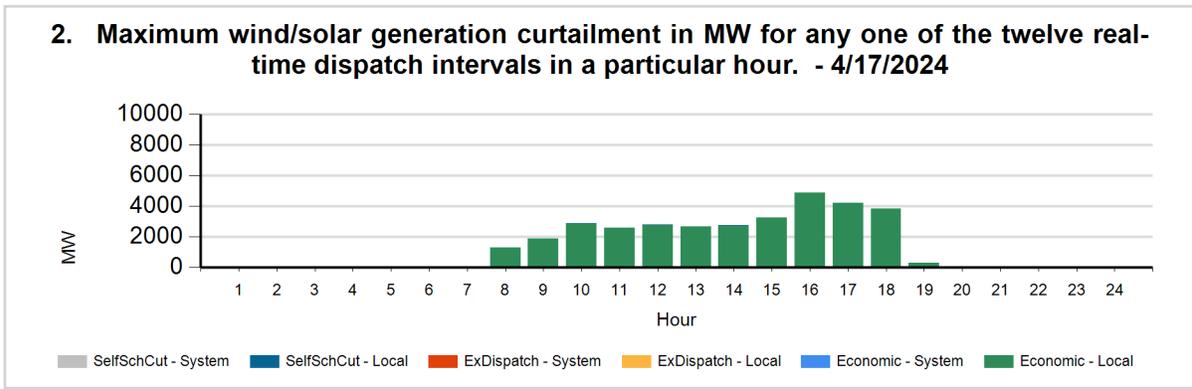
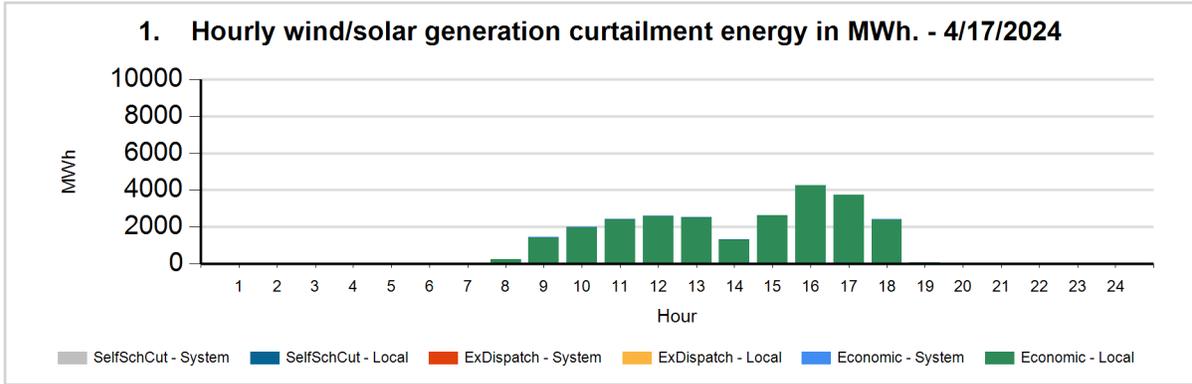
<sup>1</sup>Only wind and solar resources can be reported in this manner because these resources have a forecast. Curtailment is defined as the difference between actual production and the forecast when actual production is less than the forecast.

<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>.

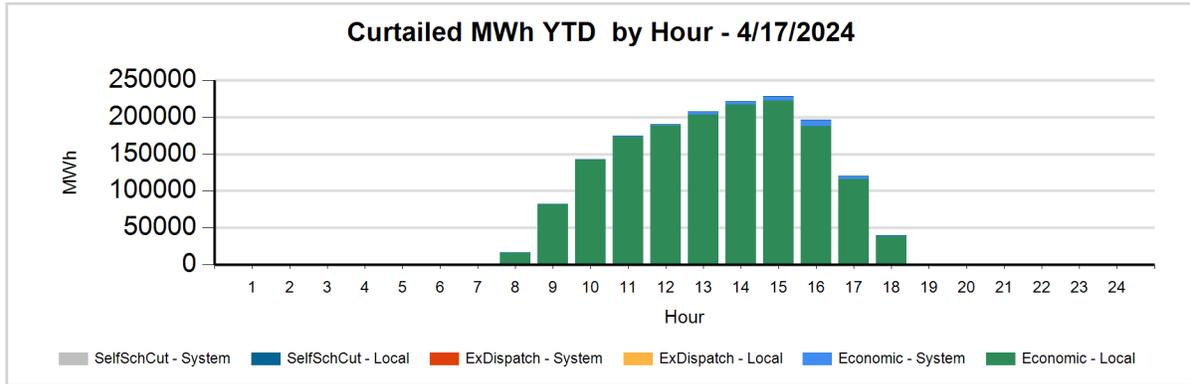
<sup>3</sup>Congestion occurs when available, least-cost energy cannot be delivered to some loads because transmission facilities do not have sufficient capacity to deliver the energy.

<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)

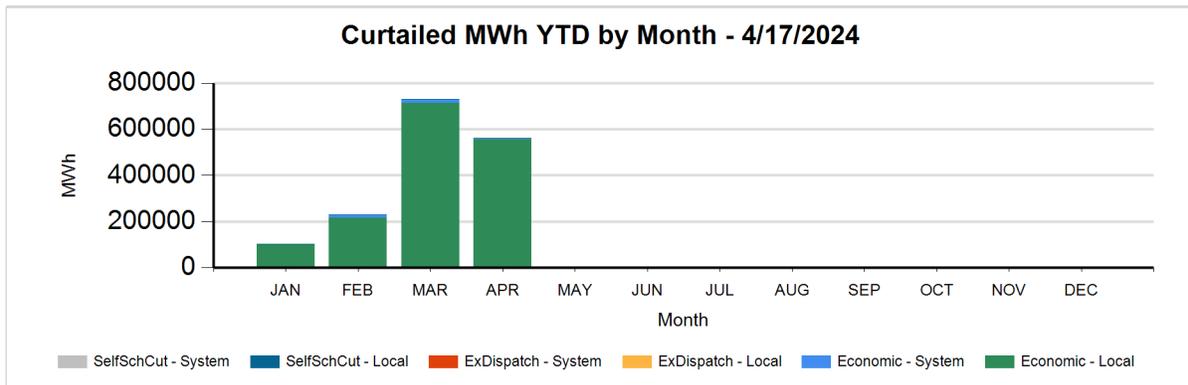
The following charts show the daily and 7-day wind and solar curtailment by category, if any.



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 - 4/17/2024
LocalEconomic	1,587,453
LocalSelfSchCut	887
SystemEconomic	33,483
TOTAL	1,621,822

Data used to produce hourly chart

DATE	HOUR	CURT TYPE	REASON	FUEL TYPE	CURTAILED MWH	CURTAILED MW
04/17	7	Economic	Local	SOLR	2	15
04/17	8	Economic	Local	SOLR	234	1257
04/17	8	Economic	Local	WIND	1	15
04/17	9	Economic	Local	SOLR	1426	1859
04/17	9	Economic	Local	WIND	13	
04/17	9	Economic	System	SOLR	2	
04/17	10	Economic	Local	SOLR	2002	2837
04/17	10	Economic	Local	WIND	11	35
04/17	10	Economic	System	SOLR	1	
04/17	10	SelfSchCut	Local	SOLR	0	4
04/17	11	Economic	Local	SOLR	2388	2561
04/17	11	Economic	Local	WIND	34	32
04/17	11	SelfSchCut	Local	SOLR	2	
04/17	12	Economic	Local	SOLR	2539	2731
04/17	12	Economic	Local	WIND	39	45
04/17	12	SelfSchCut	Local	SOLR	4	10
04/17	13	Economic	Local	SOLR	2443	2590
04/17	13	Economic	Local	WIND	69	85
04/17	13	SelfSchCut	Local	SOLR	3	
04/17	14	Economic	Local	SOLR	1273	2630
04/17	14	Economic	Local	WIND	49	116
04/17	14	SelfSchCut	Local	SOLR	2	9
04/17	15	Economic	Local	SOLR	2408	2909
04/17	15	Economic	Local	WIND	228	353
04/17	16	Economic	Local	SOLR	3701	4339
04/17	16	Economic	Local	WIND	539	552
04/17	17	Economic	Local	SOLR	3050	3590
04/17	17	Economic	Local	WIND	675	625
04/17	18	Economic	Local	SOLR	1973	3160
04/17	18	Economic	Local	WIND	428	675
04/17	18	Economic	System	SOLR	17	
04/17	19	Economic	Local	SOLR	69	271

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).