

## Wind and Solar Curtailment May 27, 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.

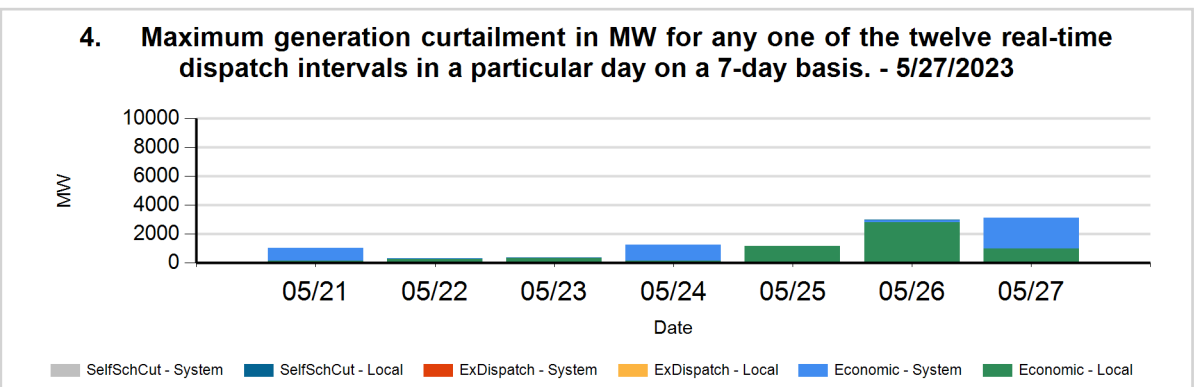
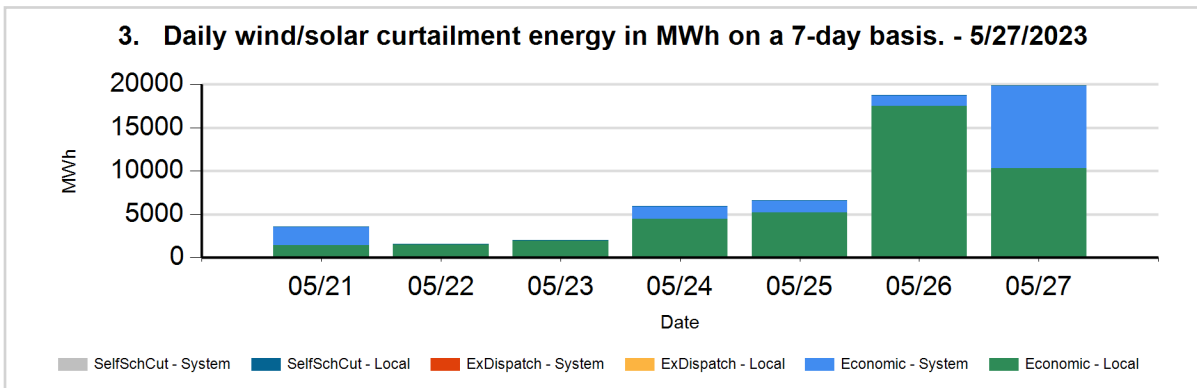
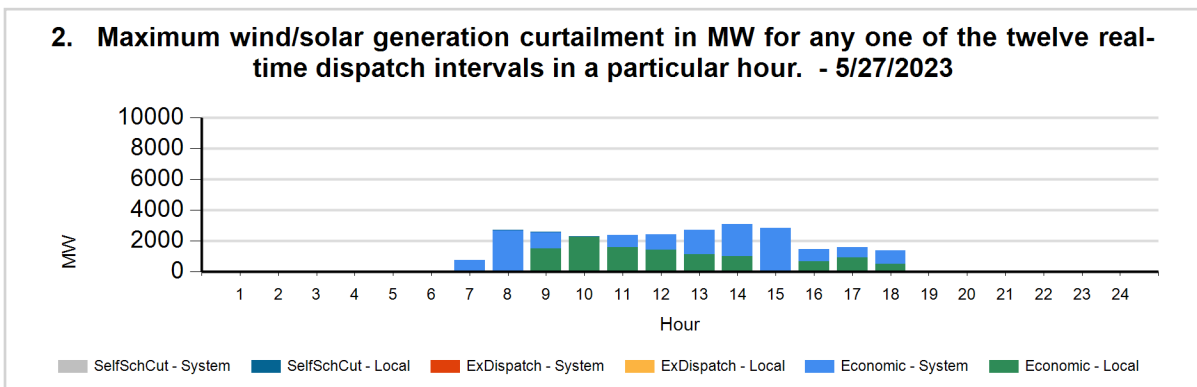
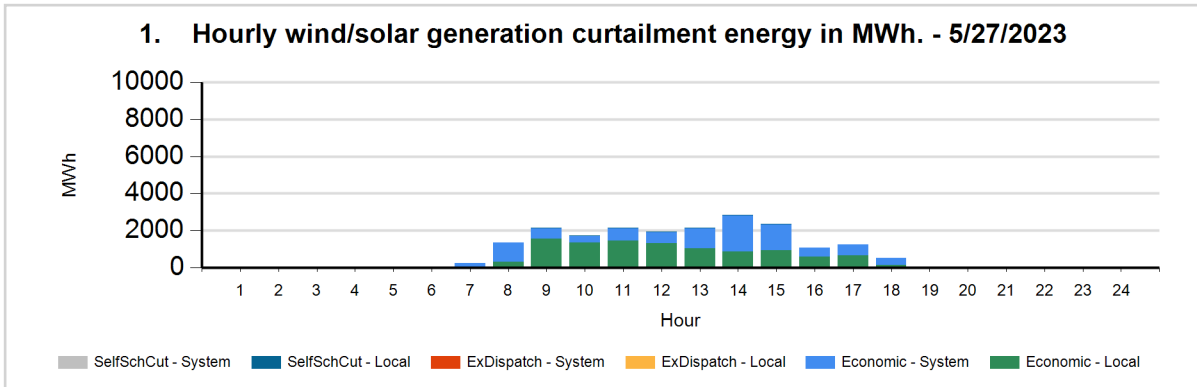
<sup>2</sup>The Renewables Watch report provides daily actual renewable production within the ISO grid. It is available at: <http://www.caiso.com/green/renewableswatch.html>.

<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.

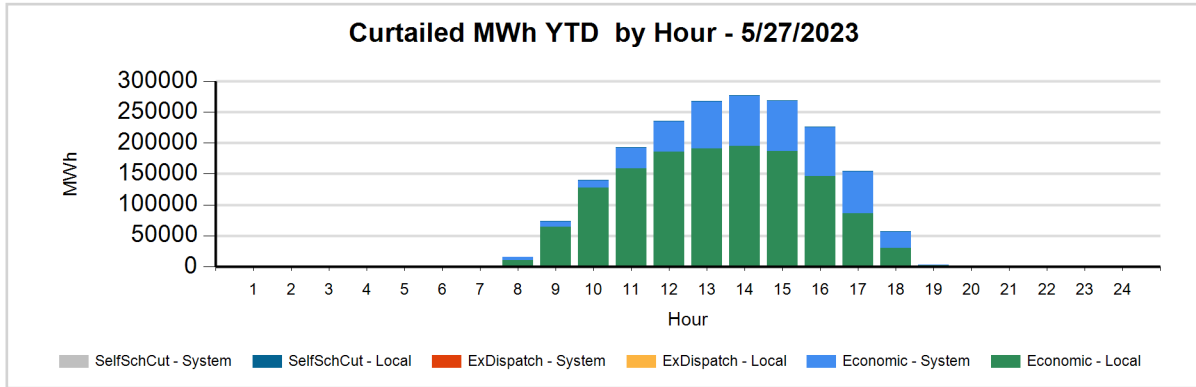
<sup>4</sup>For more information on oversupply conditions, please see:

[https://www.caiso.com/Documents/FlexibleResourcesHelpRenewables\\_FastFacts.pdf](https://www.caiso.com/Documents/FlexibleResourcesHelpRenewables_FastFacts.pdf)

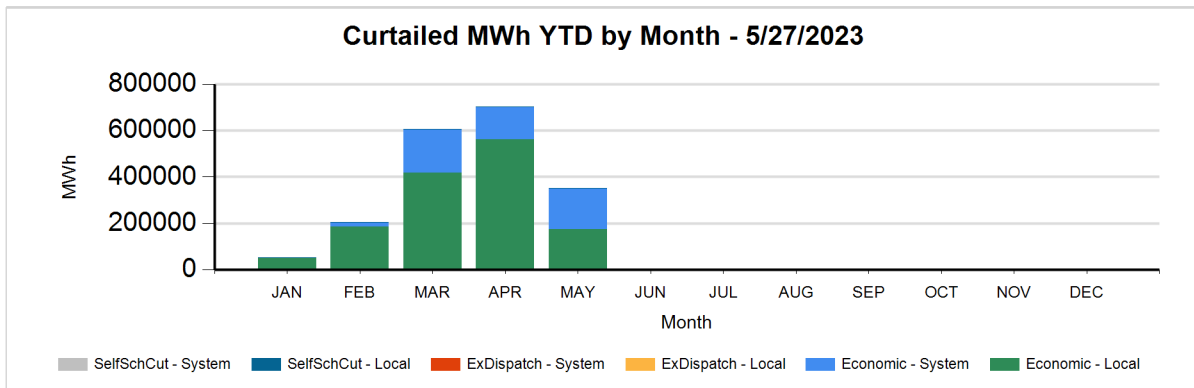
The following charts show the daily and 7-day wind and solar curtailment by category, if any.



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 - 5/27/2023
LocalEconomic	1,387,700
LocalSelfSchCut	540
SystemEconomic	528,234
TOTAL	1,916,474

**Data used to produce hourly chart**

DATE	HOUR	CURT TYPE	REASON	FUEL TYPE	CURTAILED MWH	CURTAILED MW
05/27	1	Economic	Local	WIND	8	8
05/27	2	Economic	Local	WIND	8	8
05/27	3	Economic	Local	WIND	8	8
05/27	4	Economic	Local	WIND	8	8
05/27	5	Economic	Local	WIND	8	8
05/27	6	Economic	Local	WIND	7	8
05/27	7	Economic	Local	SOLR	16	4
05/27	7	Economic	Local	WIND	21	
05/27	7	Economic	System	SOLR	148	591
05/27	7	Economic	System	WIND	40	136
05/27	8	Economic	Local	SOLR	272	16
05/27	8	Economic	Local	WIND	40	15
05/27	8	Economic	System	SOLR	878	2354
05/27	8	Economic	System	WIND	149	327
05/27	8	SelfSchCut	Local	SOLR	0	1
05/27	9	Economic	Local	SOLR	1504	1475
05/27	9	Economic	Local	WIND	52	15
05/27	9	Economic	System	SOLR	521	995
05/27	9	Economic	System	WIND	77	113
05/27	9	SelfSchCut	Local	SOLR	1	1
05/27	10	Economic	Local	SOLR	1280	2143
05/27	10	Economic	Local	WIND	57	113
05/27	10	Economic	System	SOLR	327	
05/27	10	Economic	System	WIND	76	39
05/27	10	SelfSchCut	Local	SOLR	2	1
05/27	11	Economic	Local	SOLR	1401	1595
05/27	11	Economic	Local	WIND	32	7
05/27	11	Economic	System	SOLR	608	649
05/27	11	Economic	System	WIND	89	103
05/27	11	SelfSchCut	Local	SOLR	1	
05/27	12	Economic	Local	SOLR	1283	1388

05/27	12	Economic	Local	WIND	19	6
05/27	12	Economic	System	SOLR	537	903
05/27	12	Economic	System	WIND	94	102
05/27	12	SelfSchCut	Local	SOLR	2	
05/27	13	Economic	Local	SOLR	1012	1109
05/27	13	Economic	Local	WIND	6	6
05/27	13	Economic	System	SOLR	1032	1501
05/27	13	Economic	System	WIND	102	100
05/27	13	SelfSchCut	Local	SOLR	1	
05/27	14	Economic	Local	SOLR	851	974
05/27	14	Economic	Local	WIND	9	9
05/27	14	Economic	System	SOLR	1798	1882
05/27	14	Economic	System	WIND	171	235
05/27	14	SelfSchCut	Local	SOLR	1	
05/27	15	Economic	Local	SOLR	895	30
05/27	15	Economic	Local	WIND	40	8
05/27	15	Economic	System	SOLR	1299	2559
05/27	15	Economic	System	WIND	120	240
05/27	15	SelfSchCut	Local	SOLR	1	
05/27	16	Economic	Local	SOLR	566	631
05/27	16	Economic	Local	WIND	23	13
05/27	16	Economic	System	SOLR	387	686
05/27	16	Economic	System	WIND	98	113
05/27	17	Economic	Local	SOLR	622	895
05/27	17	Economic	Local	WIND	15	15
05/27	17	Economic	System	SOLR	493	571
05/27	17	Economic	System	WIND	106	109
05/27	18	Economic	Local	SOLR	121	484
05/27	18	Economic	Local	WIND	18	16
05/27	18	Economic	System	SOLR	311	748
05/27	18	Economic	System	WIND	65	111
05/27	19	Economic	Local	SOLR	9	34
05/27	19	Economic	Local	WIND	17	17
05/27	20	Economic	Local	SOLR	0	

05/27	20	Economic	Local	WIND	14	15
05/27	20	Economic	System	SOLR	4	29
05/27	21	Economic	Local	WIND	13	13
05/27	22	Economic	Local	WIND	13	14
05/27	23	Economic	Local	WIND	14	14
05/27	24	Economic	Local	WIND	12	14

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).