

## Wind and Solar Curtailment May 10, 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.

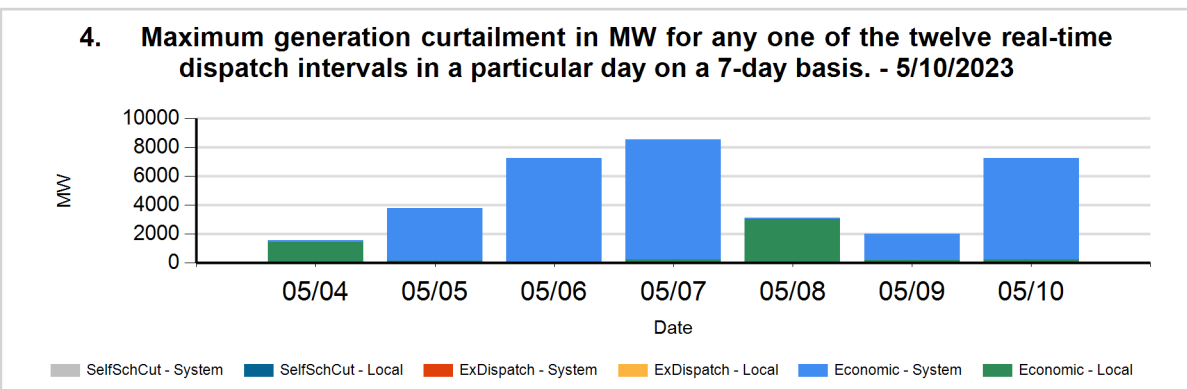
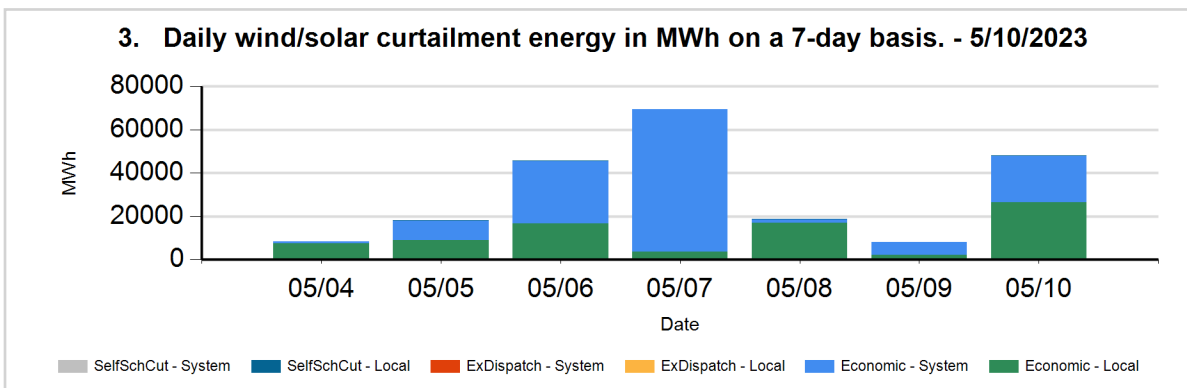
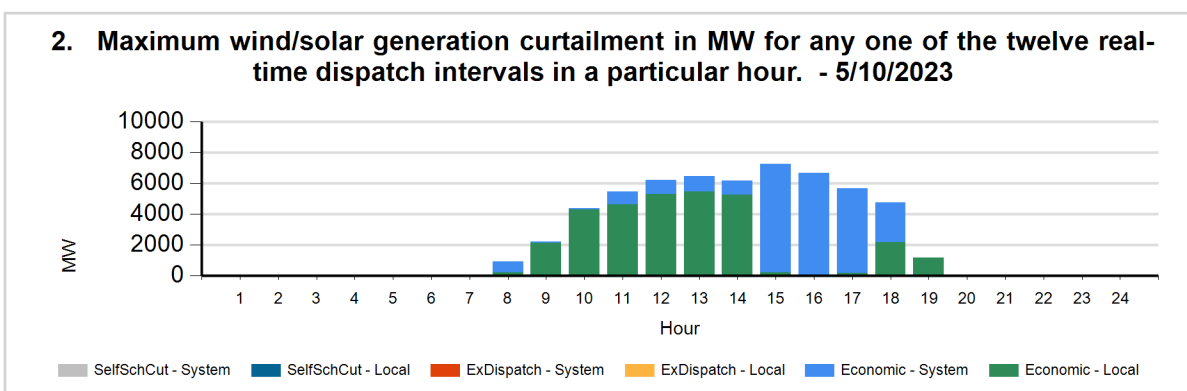
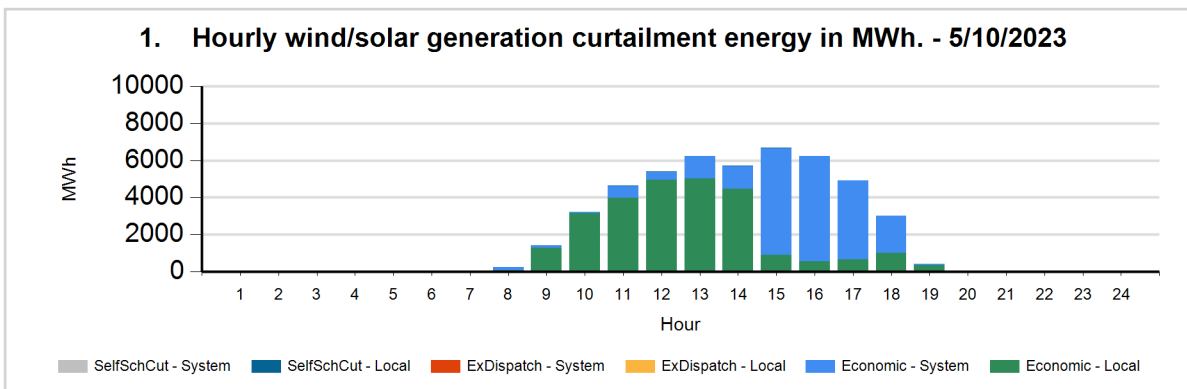
<sup>1</sup>Only wind and solar resources can be reported in this manner because these resources have a forecast. Curtailment is defined as the difference between actual production and the forecast when actual production is less than the forecast.

<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>.

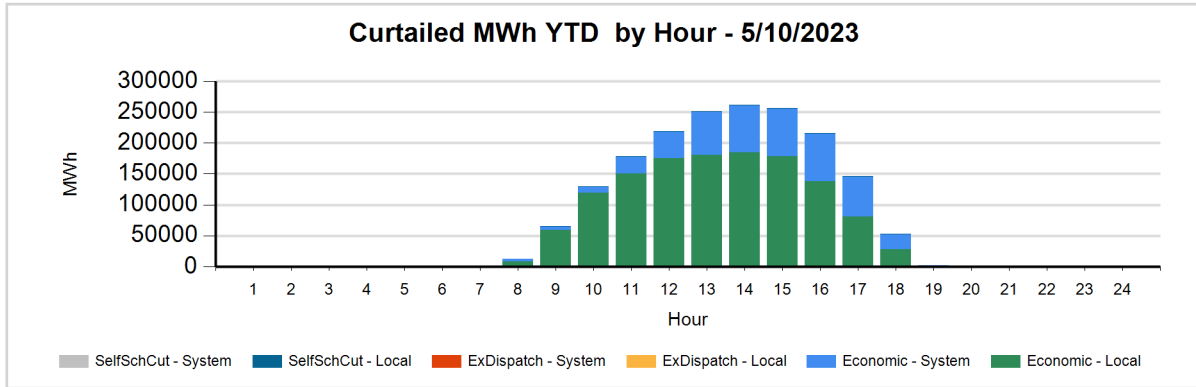
<sup>3</sup>Congestion occurs when available, least-cost energy cannot be delivered to some loads because transmission facilities do not have sufficient capacity to deliver the energy.

<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)

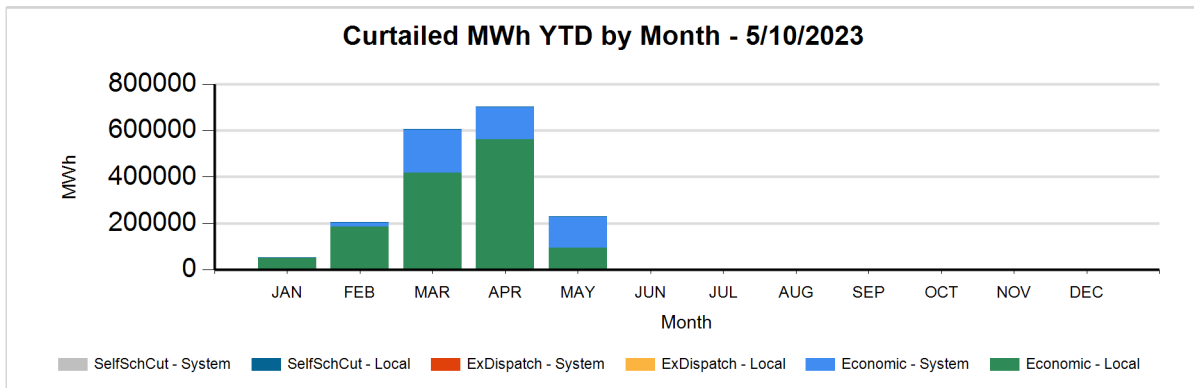
The following charts show the daily and 7-day wind and solar curtailment by category, if any.



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 - 5/10/2023
LocalEconomic	1,306,436
LocalSelfSchCut	426
SystemEconomic	488,885
TOTAL	1,795,747

**Data used to produce hourly chart**

DATE	HOUR	CURT TYPE	REASON	FUEL TYPE	CURTAILED MWH	CURTAILED MW
05/10	8	Economic	Local	SOLR	42	78
05/10	8	Economic	Local	WIND	17	118
05/10	8	Economic	System	SOLR	118	592
05/10	8	Economic	System	WIND	53	107
05/10	9	Economic	Local	SOLR	1105	1963
05/10	9	Economic	Local	WIND	188	172
05/10	9	Economic	System	SOLR	75	
05/10	9	Economic	System	WIND	50	53
05/10	10	Economic	Local	SOLR	2998	4116
05/10	10	Economic	Local	WIND	164	186
05/10	10	Economic	System	SOLR	18	36
05/10	10	Economic	System	WIND	46	37
05/10	11	Economic	Local	SOLR	3803	4450
05/10	11	Economic	Local	WIND	178	172
05/10	11	Economic	System	SOLR	583	672
05/10	11	Economic	System	WIND	80	167
05/10	11	SelfSchCut	Local	SOLR	1	
05/10	12	Economic	Local	SOLR	4779	5061
05/10	12	Economic	Local	WIND	172	220
05/10	12	Economic	System	SOLR	345	673
05/10	12	Economic	System	WIND	112	258
05/10	12	SelfSchCut	Local	SOLR	2	
05/10	13	Economic	Local	SOLR	4791	5211
05/10	13	Economic	Local	WIND	234	251
05/10	13	Economic	System	SOLR	975	750
05/10	13	Economic	System	WIND	243	256
05/10	14	Economic	Local	SOLR	4252	5033
05/10	14	Economic	Local	WIND	199	211
05/10	14	Economic	System	SOLR	1065	716
05/10	14	Economic	System	WIND	177	220
05/10	14	SelfSchCut	Local	SOLR	2	

05/10	15	Economic	Local	SOLR	836	222
05/10	15	Economic	Local	WIND	66	
05/10	15	Economic	System	SOLR	5285	6401
05/10	15	Economic	System	WIND	497	638
05/10	15	SelfSchCut	Local	SOLR	1	
05/10	16	Economic	Local	SOLR	532	55
05/10	16	Economic	Local	WIND	21	
05/10	16	Economic	System	SOLR	5144	6030
05/10	16	Economic	System	WIND	531	573
05/10	17	Economic	Local	SOLR	605	152
05/10	17	Economic	Local	WIND	35	
05/10	17	Economic	System	SOLR	3920	4979
05/10	17	Economic	System	WIND	348	550
05/10	18	Economic	Local	SOLR	874	2029
05/10	18	Economic	Local	WIND	130	124
05/10	18	Economic	System	SOLR	1849	2414
05/10	18	Economic	System	WIND	167	195
05/10	19	Economic	Local	SOLR	281	949
05/10	19	Economic	Local	WIND	75	211
05/10	19	Economic	System	SOLR	13	
05/10	19	Economic	System	WIND	35	

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).