

## Wind and Solar Curtailment May 06, 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.

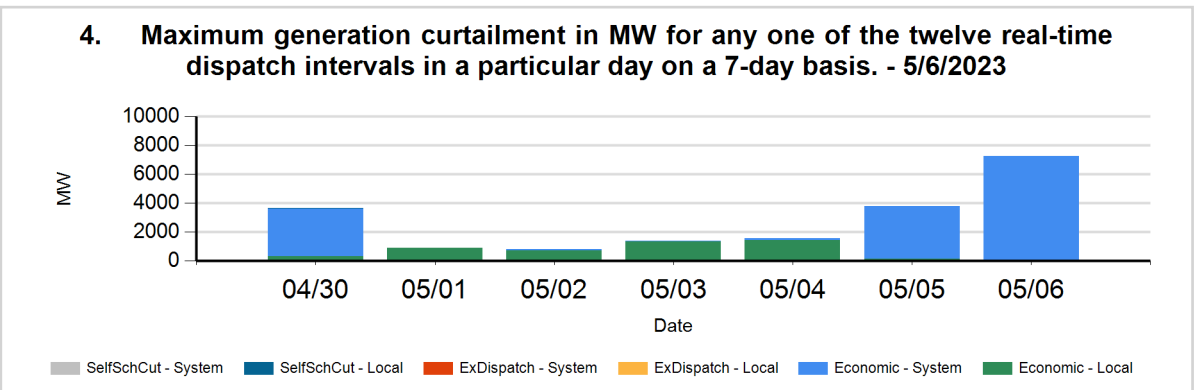
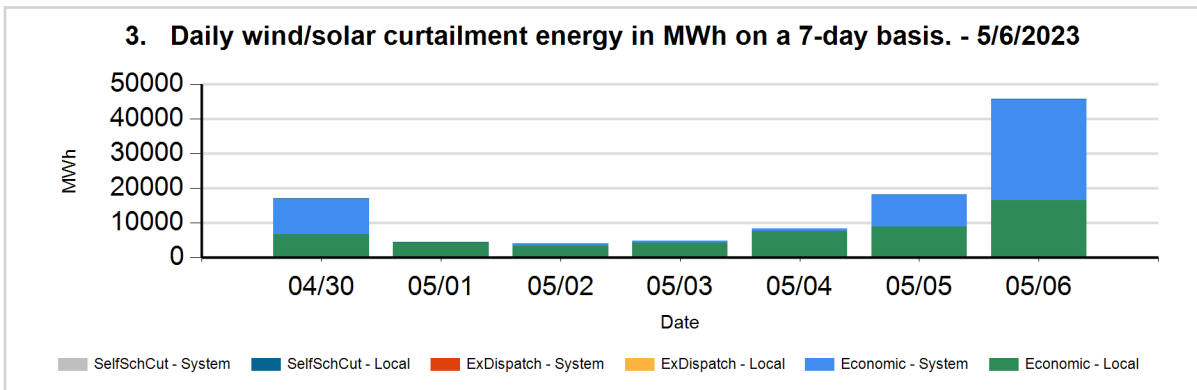
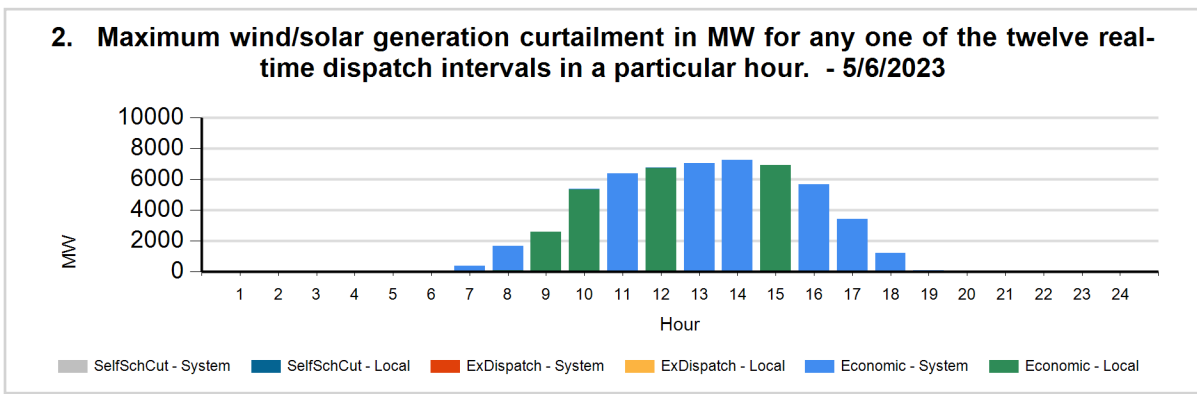
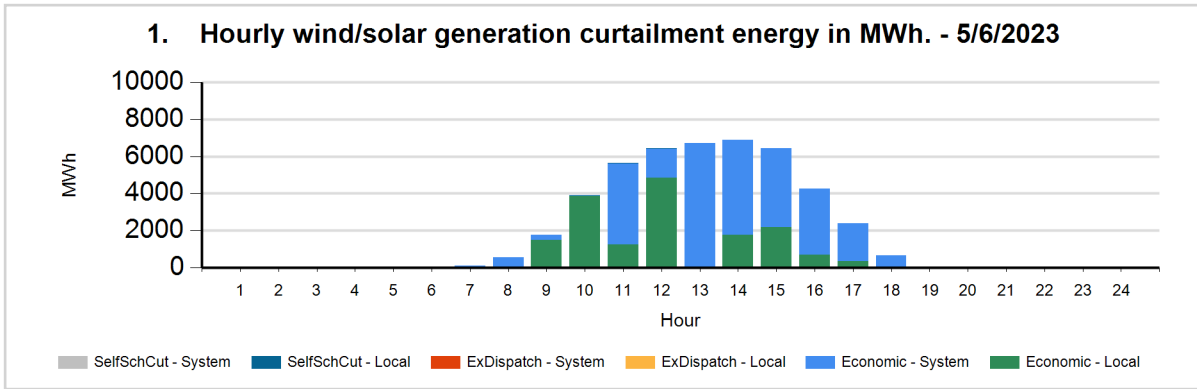
<sup>1</sup>Only wind and solar resources can be reported in this manner because these resources have a forecast. Curtailment is defined as the difference between actual production and the forecast when actual production is less than the forecast.

<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>.

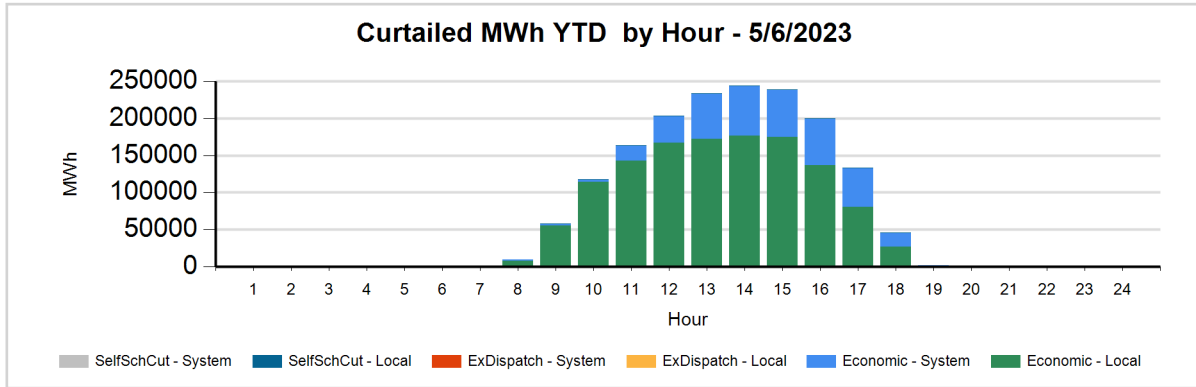
<sup>3</sup>Congestion occurs when available, least-cost energy cannot be delivered to some loads because transmission facilities do not have sufficient capacity to deliver the energy.

<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)

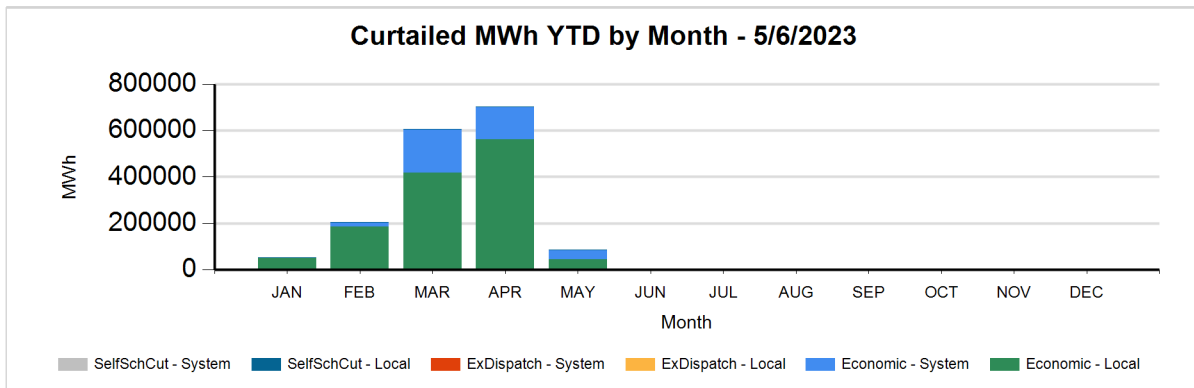
The following charts show the daily and 7-day wind and solar curtailment by category, if any.



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 - 5/6/2023
LocalEconomic	1,257,491
LocalSelfSchCut	391
SystemEconomic	393,802
TOTAL	1,651,683

**Data used to produce hourly chart**

DATE	HOUR	CURT TYPE	REASON	FUEL TYPE	CURTAILED MWH	CURTAILED MW
05/06	3	Economic	Local	WIND	8	52
05/06	3	Economic	System	WIND	0	
05/06	7	Economic	Local	SOLR	0	4
05/06	7	Economic	System	SOLR	24	260
05/06	7	Economic	System	WIND	61	111
05/06	8	Economic	Local	SOLR	30	68
05/06	8	Economic	Local	WIND	15	
05/06	8	Economic	System	SOLR	385	1363
05/06	8	Economic	System	WIND	122	222
05/06	9	Economic	Local	SOLR	1365	2354
05/06	9	Economic	Local	WIND	114	208
05/06	9	Economic	System	SOLR	240	
05/06	9	Economic	System	WIND	57	
05/06	9	SelfSchCut	Local	SOLR	0	
05/06	10	Economic	Local	SOLR	3757	5200
05/06	10	Economic	Local	WIND	140	166
05/06	10	Economic	System	WIND	17	22
05/06	10	SelfSchCut	Local	SOLR	0	
05/06	11	Economic	Local	SOLR	1209	14
05/06	11	Economic	Local	WIND	39	
05/06	11	Economic	System	SOLR	4117	5891
05/06	11	Economic	System	WIND	272	467
05/06	11	SelfSchCut	Local	SOLR	1	
05/06	12	Economic	Local	SOLR	4590	6229
05/06	12	Economic	Local	WIND	259	468
05/06	12	Economic	System	SOLR	1465	
05/06	12	Economic	System	WIND	112	52
05/06	12	SelfSchCut	Local	SOLR	1	12
05/06	13	Economic	Local	SOLR	10	12
05/06	13	Economic	System	SOLR	6213	6473
05/06	13	Economic	System	WIND	474	547

05/06	14	Economic	Local	SOLR	1592	13
05/06	14	Economic	Local	WIND	155	
05/06	14	Economic	System	SOLR	4711	6557
05/06	14	Economic	System	WIND	412	682
05/06	15	Economic	Local	SOLR	1986	6159
05/06	15	Economic	Local	WIND	199	750
05/06	15	Economic	System	SOLR	3889	
05/06	15	Economic	System	WIND	353	
05/06	16	Economic	Local	SOLR	635	
05/06	16	Economic	Local	WIND	44	
05/06	16	Economic	System	SOLR	3342	5257
05/06	16	Economic	System	WIND	221	394
05/06	17	Economic	Local	SOLR	308	
05/06	17	Economic	Local	WIND	30	
05/06	17	Economic	System	SOLR	1911	3266
05/06	17	Economic	System	WIND	150	158
05/06	18	Economic	System	SOLR	508	1011
05/06	18	Economic	System	WIND	134	197
05/06	19	Economic	Local	WIND	10	
05/06	19	Economic	System	WIND	9	62

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).