

## Wind and Solar Curtailment June 18, 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.

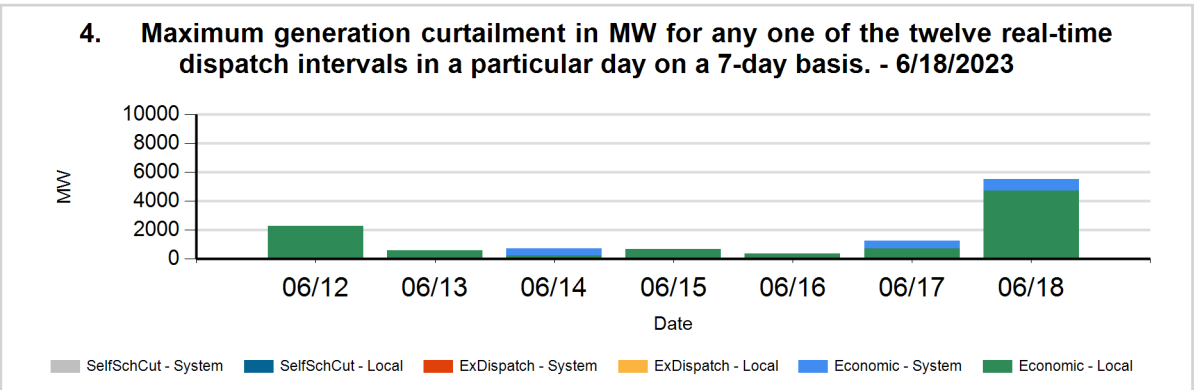
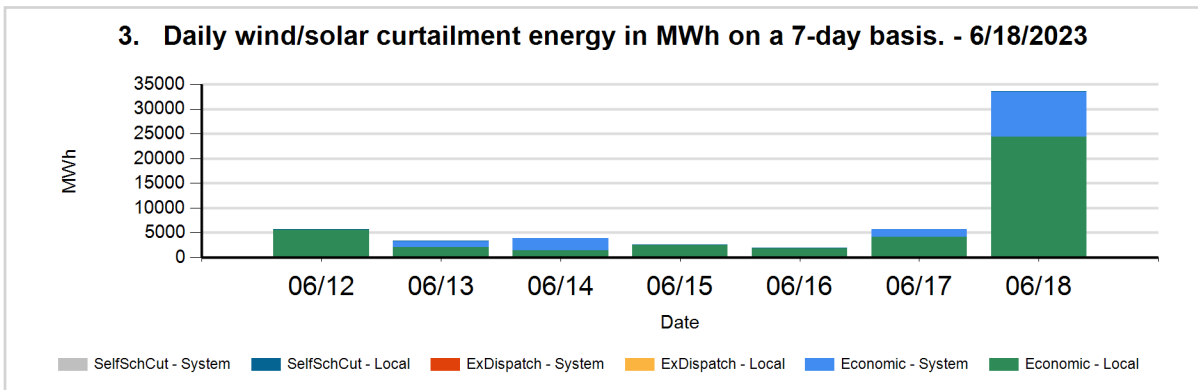
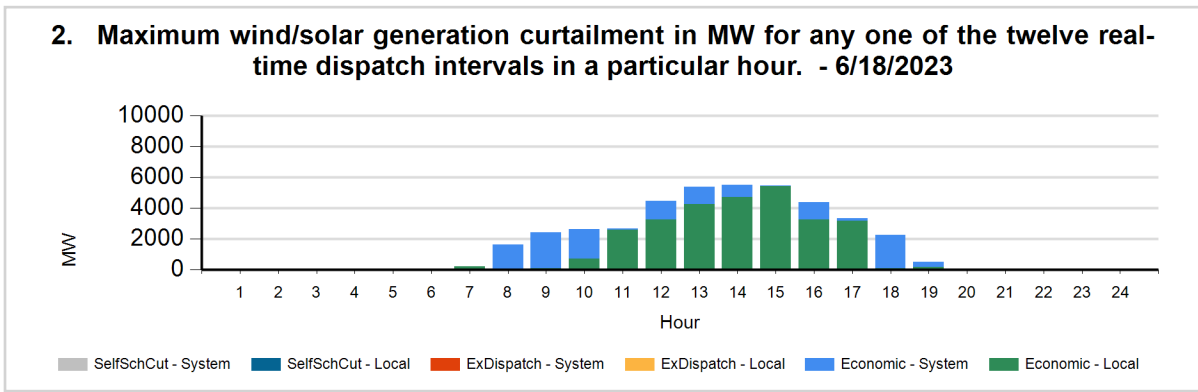
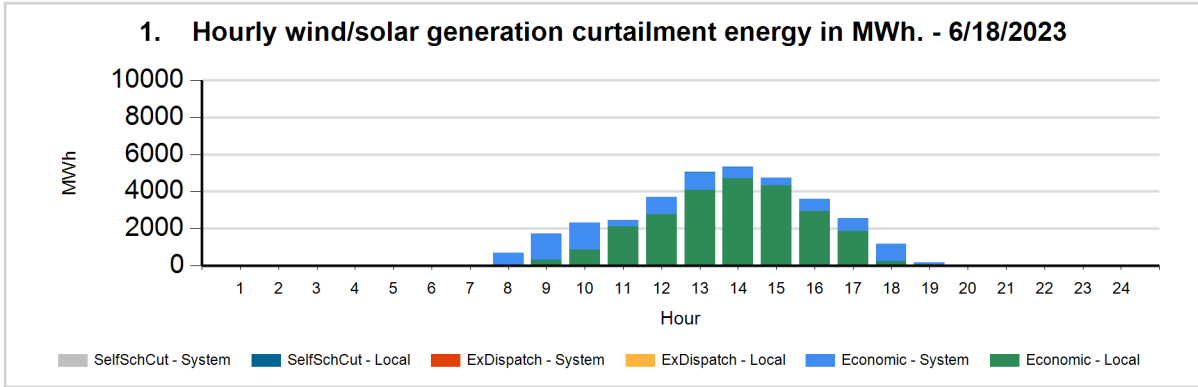
<sup>2</sup>The Renewables Watch report provides daily actual renewable production within the ISO grid. It is available at: <http://www.caiso.com/green/renewableswatch.html>.

<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.

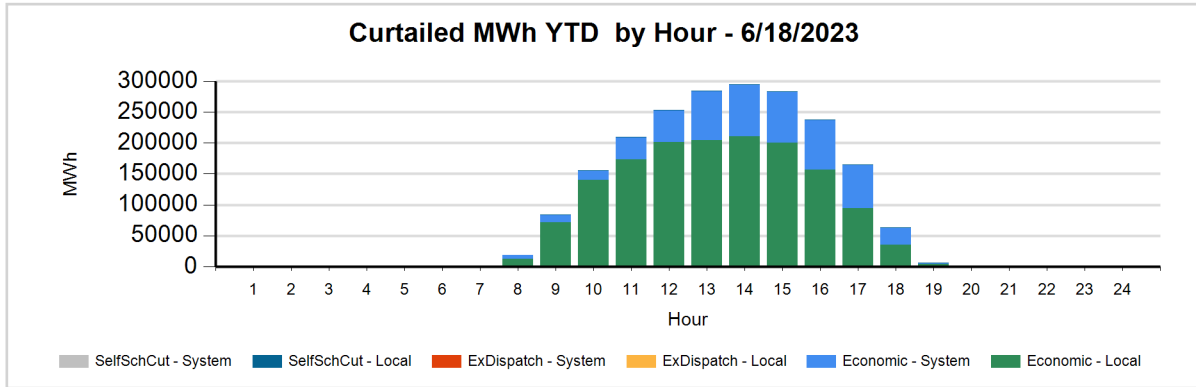
<sup>4</sup>For more information on oversupply conditions, please see:

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

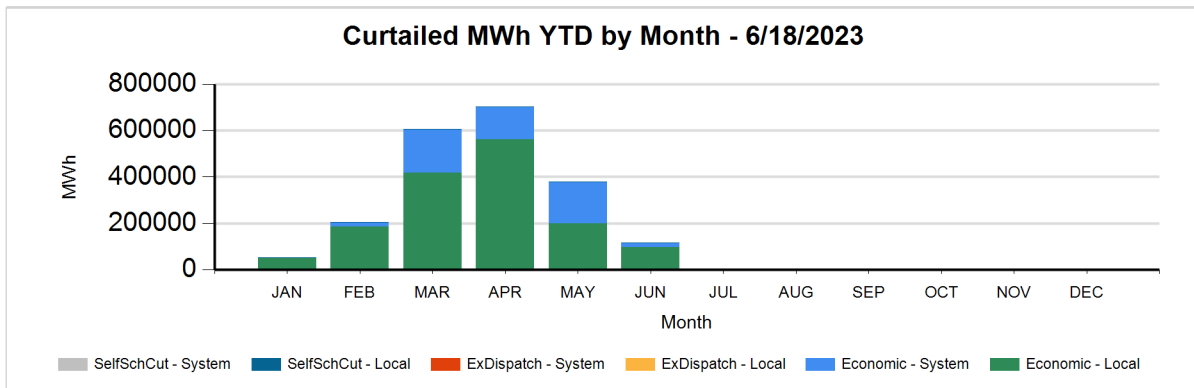
The following charts show the daily and 7-day wind and solar curtailment by category, if any.



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 - 6/18/2023
LocalEconomic	1,508,383
LocalSelfSchCut	783
SystemEconomic	553,494
<b>TOTAL</b>	<b>2,062,661</b>

**Data used to produce hourly chart**

DATE	HOUR	CURT TYPE	REASON	FUEL TYPE	CURTAILED MWH	CURTAILED MW
06/18	1	Economic	Local	WIND	8	9
06/18	2	Economic	Local	WIND	8	9
06/18	3	Economic	Local	WIND	8	9
06/18	4	Economic	Local	WIND	6	9
06/18	5	Economic	Local	WIND	5	7
06/18	6	Economic	Local	WIND	6	7
06/18	7	Economic	Local	SOLR	19	180
06/18	7	Economic	Local	WIND	5	10
06/18	7	Economic	System	SOLR	18	
06/18	7	Economic	System	WIND	3	
06/18	8	Economic	Local	SOLR	34	55
06/18	8	Economic	System	SOLR	560	1457
06/18	8	Economic	System	WIND	86	114
06/18	9	Economic	Local	SOLR	304	99
06/18	9	Economic	Local	WIND	20	
06/18	9	Economic	System	SOLR	1297	2178
06/18	9	Economic	System	WIND	97	128
06/18	10	Economic	Local	SOLR	832	721
06/18	10	Economic	Local	WIND	14	
06/18	10	Economic	System	SOLR	1351	1767
06/18	10	Economic	System	WIND	109	148
06/18	11	Economic	Local	SOLR	2053	2506
06/18	11	Economic	Local	WIND	62	93
06/18	11	Economic	System	SOLR	289	
06/18	11	Economic	System	WIND	63	58
06/18	12	Economic	Local	SOLR	2665	3029
06/18	12	Economic	Local	WIND	108	206
06/18	12	Economic	System	SOLR	775	1021
06/18	12	Economic	System	WIND	164	199
06/18	12	SelfSchCut	Local	SOLR	0	
06/18	13	Economic	Local	SOLR	3603	3782

06/18	13	Economic	Local	WIND	489	480
06/18	13	Economic	System	SOLR	802	927
06/18	13	Economic	System	WIND	155	190
06/18	13	SelfSchCut	Local	SOLR	2	
06/18	14	Economic	Local	SOLR	4201	4199
06/18	14	Economic	Local	WIND	501	501
06/18	14	Economic	System	SOLR	554	734
06/18	14	Economic	System	WIND	84	54
06/18	14	SelfSchCut	Local	SOLR	1	
06/18	15	Economic	Local	SOLR	3881	4954
06/18	15	Economic	Local	WIND	433	469
06/18	15	Economic	System	SOLR	365	
06/18	15	Economic	System	WIND	51	40
06/18	16	Economic	Local	SOLR	2806	3002
06/18	16	Economic	Local	WIND	140	264
06/18	16	Economic	System	SOLR	452	842
06/18	16	Economic	System	WIND	192	259
06/18	17	Economic	Local	SOLR	1817	3058
06/18	17	Economic	Local	WIND	48	90
06/18	17	Economic	System	SOLR	569	1
06/18	17	Economic	System	WIND	118	171
06/18	18	Economic	Local	SOLR	248	96
06/18	18	Economic	System	SOLR	806	2031
06/18	18	Economic	System	WIND	106	120
06/18	19	Economic	Local	SOLR	46	165
06/18	19	Economic	Local	WIND	5	
06/18	19	Economic	System	SOLR	71	192
06/18	19	Economic	System	WIND	42	120
06/18	20	Economic	Local	WIND	7	7
06/18	20	Economic	System	SOLR	0	3
06/18	21	Economic	Local	WIND	7	7
06/18	21	Economic	System	SOLR	0	3
06/18	22	Economic	Local	WIND	7	7
06/18	23	Economic	Local	WIND	6	7



06/18	24	Economic	Local	WIND	10	7
06/18	24	Economic	System	WIND	4	43

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).