

## Wind and Solar Curtailment June 13, 2022

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.

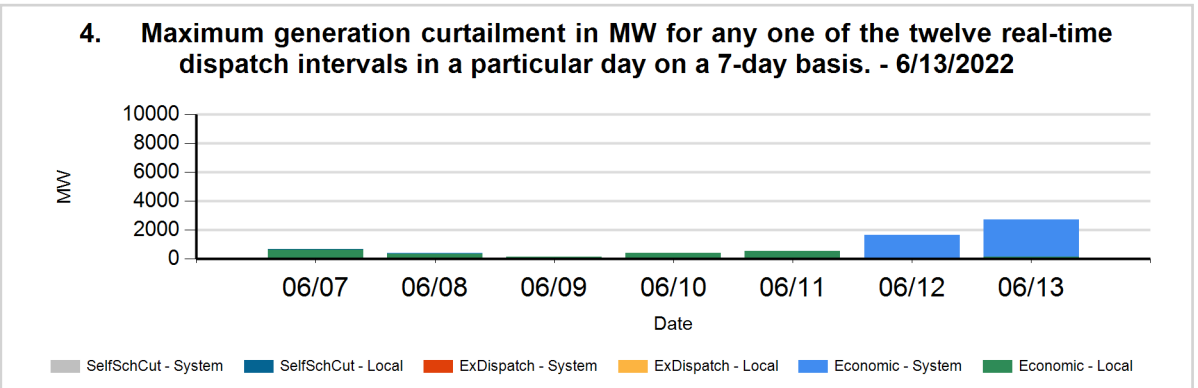
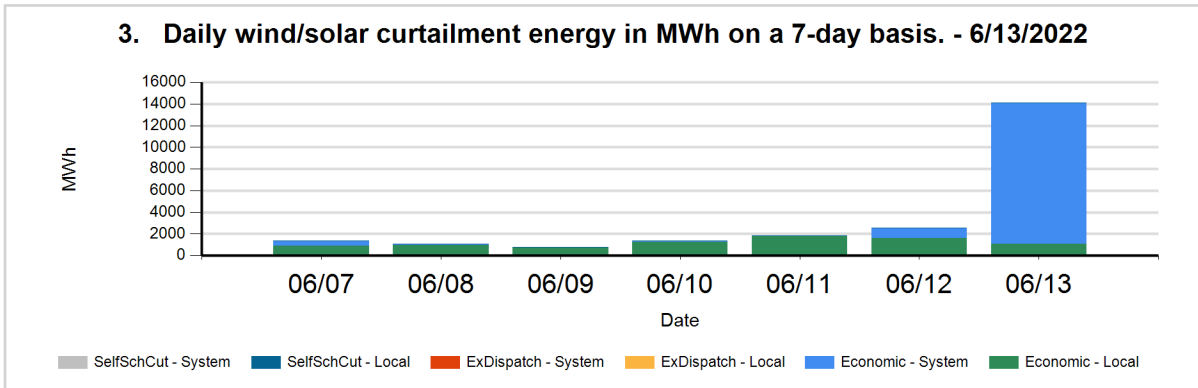
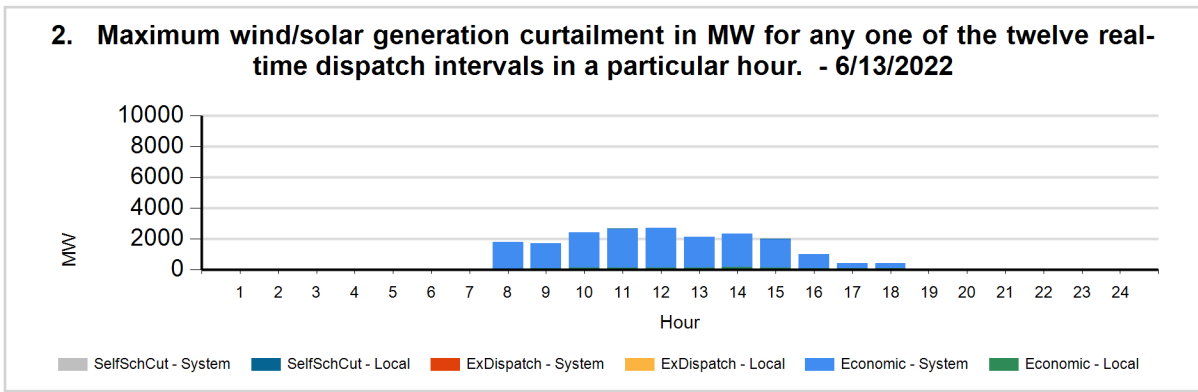
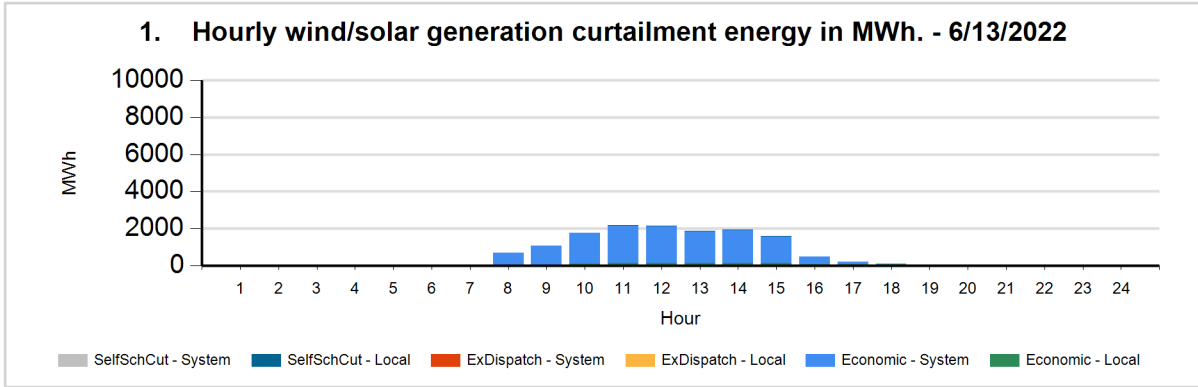
<sup>1</sup>Only wind and solar resources can be reported in this manner because these resources have a forecast. Curtailment is defined as the difference between actual production and the forecast when actual production is less than the forecast.

<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>.

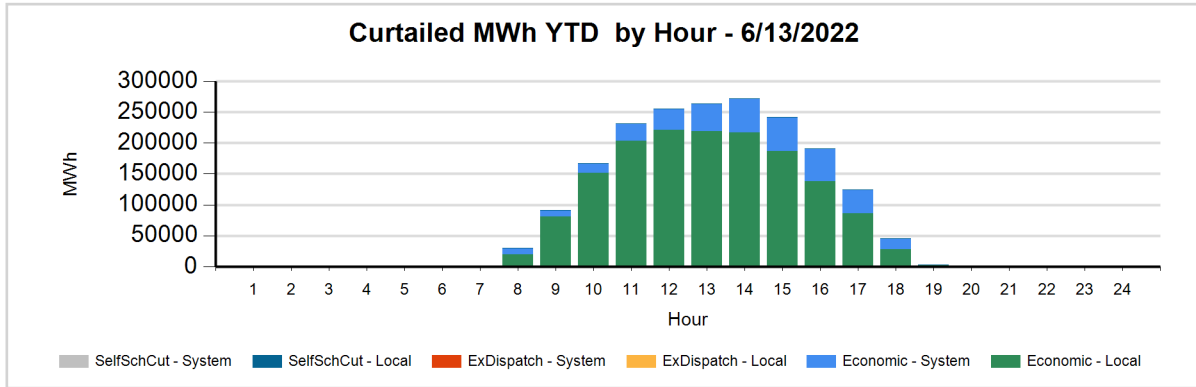
<sup>3</sup>Congestion occurs when available, least-cost energy cannot be delivered to some loads because transmission facilities do not have sufficient capacity to deliver the energy.

<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)

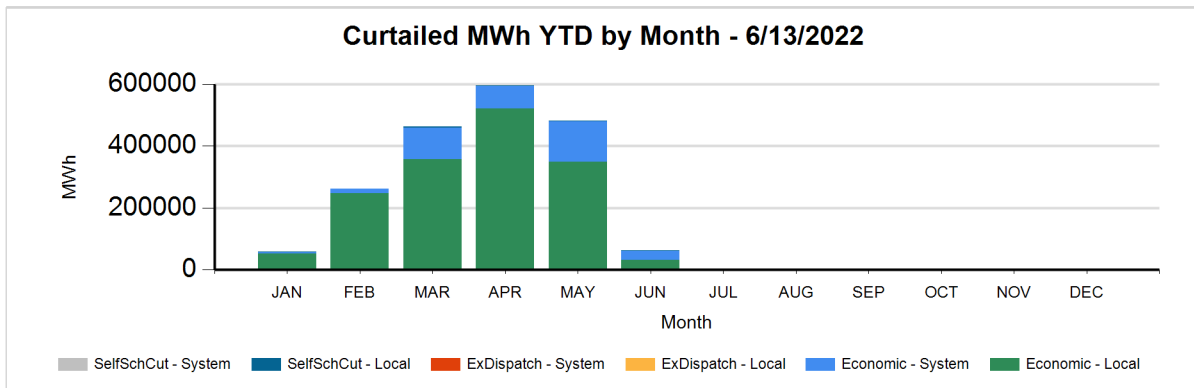
The following charts show the daily and 7-day wind and solar curtailment by category, if any.



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 - 6/13/2022
LocalEconomic	1,554,395
LocalSelfSchCut	5,015
SystemEconomic	362,665
<b>TOTAL</b>	<b>1,922,076</b>

**Data used to produce hourly chart**

DATE	HOUR	CURT TYPE	REASON	FUEL TYPE	CURTAILED MWH	CURTAILED MW
06/13	3	Economic	System	WIND	3	31
06/13	4	Economic	Local	WIND	2	19
06/13	6	Economic	Local	WIND	7	30
06/13	7	Economic	Local	SOLR	1	
06/13	7	Economic	System	SOLR	3	13
06/13	8	Economic	Local	SOLR	7	
06/13	8	Economic	System	SOLR	680	1773
06/13	8	Economic	System	WIND	4	16
06/13	9	Economic	Local	SOLR	46	81
06/13	9	Economic	System	SOLR	1017	1602
06/13	9	Economic	System	WIND	4	13
06/13	10	Economic	Local	SOLR	89	137
06/13	10	Economic	System	SOLR	1644	2268
06/13	10	Economic	System	WIND	14	17
06/13	11	Economic	Local	SOLR	114	123
06/13	11	Economic	Local	WIND	7	
06/13	11	Economic	System	SOLR	2050	2507
06/13	11	Economic	System	WIND	16	16
06/13	11	SelfSchCut	Local	SOLR	3	6
06/13	12	Economic	Local	SOLR	122	121
06/13	12	Economic	System	SOLR	2006	2588
06/13	12	Economic	System	WIND	16	13
06/13	12	SelfSchCut	Local	SOLR	4	
06/13	13	Economic	Local	SOLR	127	126
06/13	13	Economic	System	SOLR	1707	2005
06/13	13	Economic	System	WIND	18	8
06/13	13	SelfSchCut	Local	SOLR	3	
06/13	14	Economic	Local	SOLR	148	155
06/13	14	Economic	System	SOLR	1782	2166
06/13	14	Economic	System	WIND	5	5
06/13	14	SelfSchCut	Local	SOLR	4	

06/13	15	Economic	Local	SOLR	126	132
06/13	15	Economic	System	SOLR	1466	1840
06/13	15	Economic	System	WIND	4	9
06/13	15	SelfSchCut	Local	SOLR	4	7
06/13	16	Economic	Local	SOLR	77	97
06/13	16	Economic	System	SOLR	392	906
06/13	17	Economic	Local	SOLR	66	72
06/13	17	Economic	System	SOLR	123	299
06/13	17	Economic	System	WIND	11	29
06/13	18	Economic	Local	SOLR	65	64
06/13	18	Economic	System	SOLR	35	359
06/13	18	Economic	System	WIND	4	
06/13	19	Economic	Local	SOLR	20	47
06/13	19	Economic	System	SOLR	0	
06/13	19	SelfSchCut	Local	SOLR	0	3
06/13	20	Economic	Local	WIND	0	
06/13	20	Economic	System	SOLR	0	2
06/13	20	Economic	System	WIND	8	23
06/13	21	Economic	Local	WIND	0	6
06/13	22	Economic	Local	WIND	10	17
06/13	23	Economic	Local	WIND	15	20
06/13	24	Economic	Local	WIND	14	41

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).