

## Wind and Solar Curtailment June 14, 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.

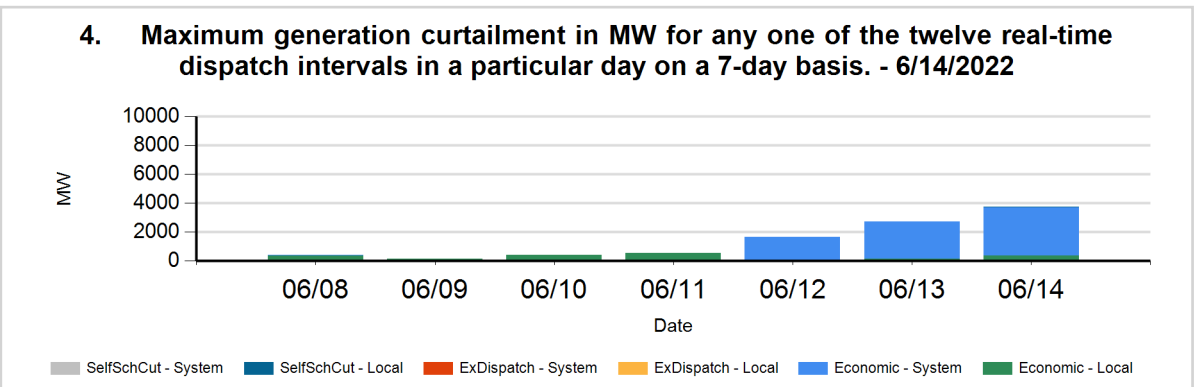
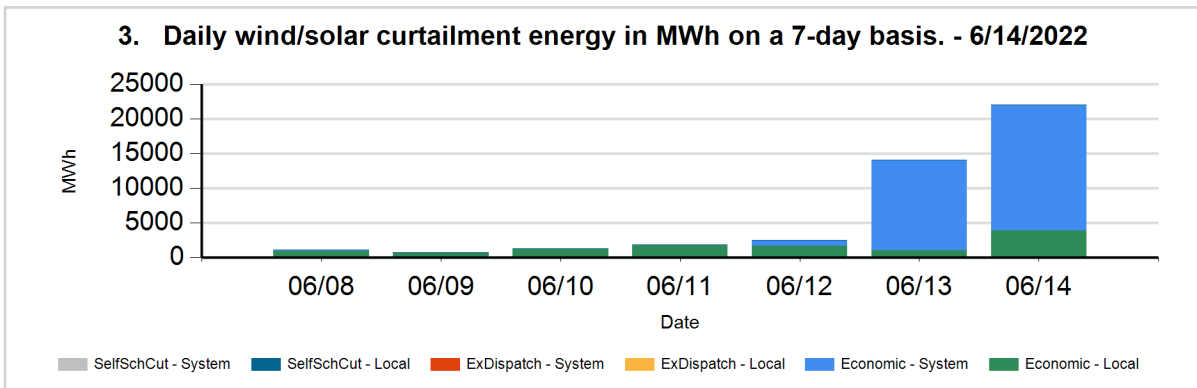
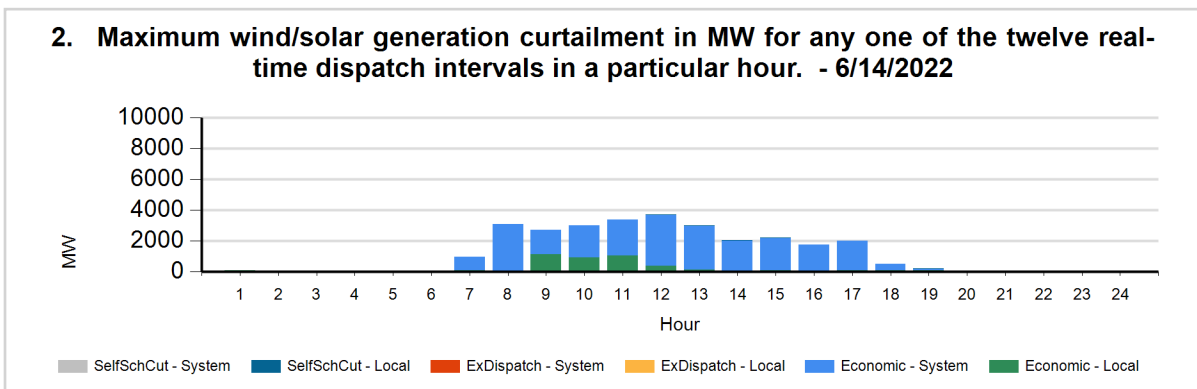
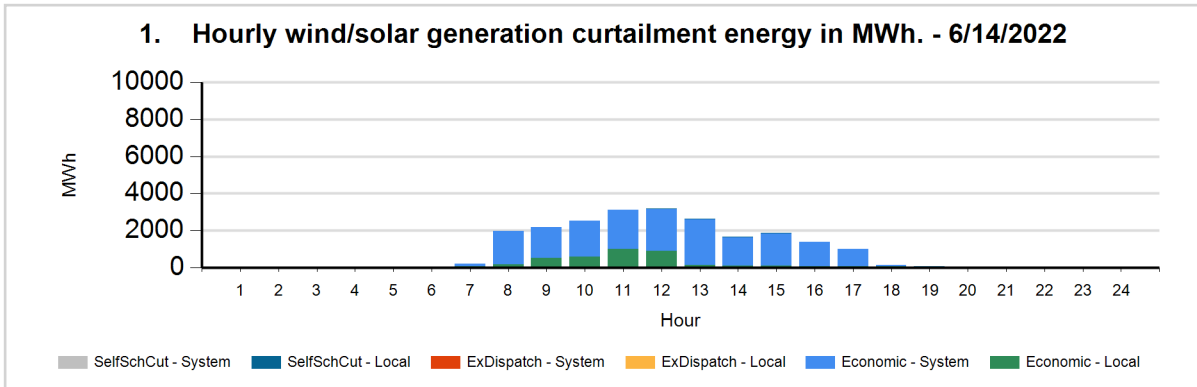
<sup>1</sup>Only wind and solar resources can be reported in this manner because these resources have a forecast. Curtailment is defined as the difference between actual production and the forecast when actual production is less than the forecast.

<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>.

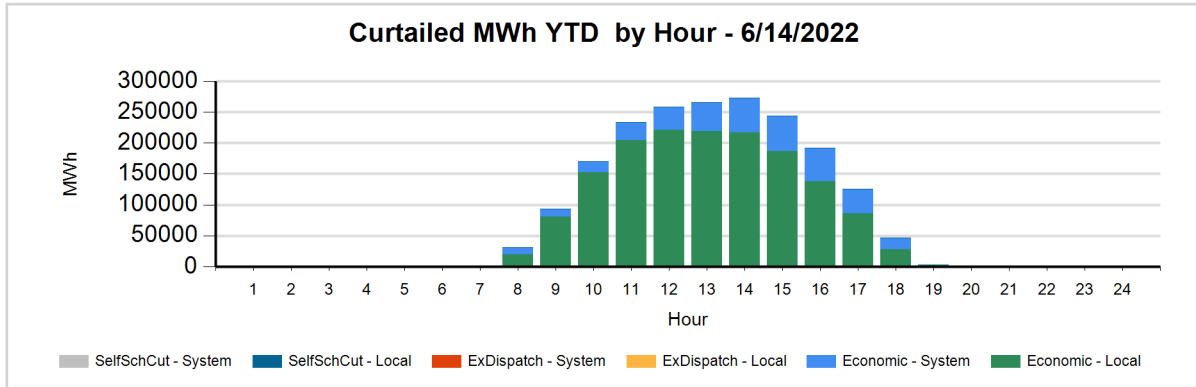
<sup>3</sup>Congestion occurs when available, least-cost energy cannot be delivered to some loads because transmission facilities do not have sufficient capacity to deliver the energy.

<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)

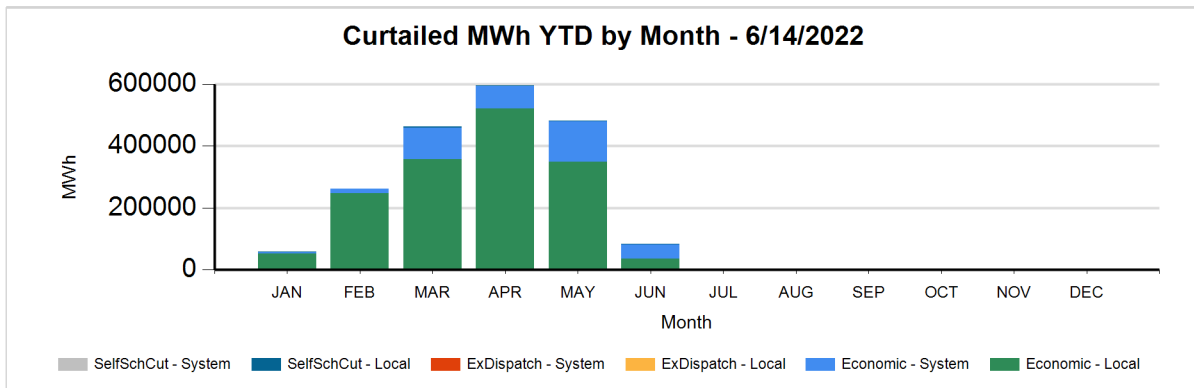
The following charts show the daily and 7-day wind and solar curtailment by category, if any.



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 - 6/14/2022
LocalEconomic	1,558,276
LocalSelfSchCut	5,035
SystemEconomic	380,802
<b>TOTAL</b>	<b>1,944,113</b>

**Data used to produce hourly chart**

DATE	HOUR	CURT TYPE	REASON	FUEL TYPE	CURTAILED MWH	CURTAILED MW
06/14	1	Economic	Local	WIND	27	59
06/14	2	Economic	Local	WIND	9	41
06/14	4	Economic	Local	WIND	37	52
06/14	5	Economic	Local	WIND	25	54
06/14	7	Economic	Local	SOLR	0	
06/14	7	Economic	Local	WIND	58	65
06/14	7	Economic	System	SOLR	148	880
06/14	7	Economic	System	WIND	3	7
06/14	8	Economic	Local	SOLR	80	
06/14	8	Economic	Local	WIND	73	
06/14	8	Economic	System	SOLR	1790	2956
06/14	8	Economic	System	WIND	39	117
06/14	9	Economic	Local	SOLR	501	1113
06/14	9	Economic	Local	WIND	18	21
06/14	9	Economic	System	SOLR	1617	1522
06/14	9	Economic	System	WIND	37	37
06/14	10	Economic	Local	SOLR	583	925
06/14	10	Economic	Local	WIND	1	
06/14	10	Economic	System	SOLR	1930	2041
06/14	10	Economic	System	WIND	17	50
06/14	11	Economic	Local	SOLR	1006	1026
06/14	11	Economic	System	SOLR	2014	2259
06/14	11	Economic	System	WIND	77	99
06/14	12	Economic	Local	SOLR	890	365
06/14	12	Economic	Local	WIND	0	2
06/14	12	Economic	System	SOLR	2270	3296
06/14	12	Economic	System	WIND	27	43
06/14	12	SelfSchCut	Local	SOLR	1	5
06/14	13	Economic	Local	SOLR	119	129
06/14	13	Economic	System	SOLR	2502	2851
06/14	13	Economic	System	WIND	4	11

06/14	13	SelfSchCut	Local	SOLR	2	6
06/14	14	Economic	Local	SOLR	102	19
06/14	14	Economic	System	SOLR	1559	2012
06/14	14	Economic	System	WIND	1	
06/14	14	SelfSchCut	Local	SOLR	3	11
06/14	15	Economic	Local	SOLR	93	77
06/14	15	Economic	System	SOLR	1754	2114
06/14	15	SelfSchCut	Local	SOLR	11	29
06/14	16	Economic	Local	SOLR	53	52
06/14	16	Economic	System	SOLR	1320	1704
06/14	16	SelfSchCut	Local	SOLR	0	
06/14	17	Economic	Local	SOLR	61	70
06/14	17	Economic	System	SOLR	954	1939
06/14	17	Economic	System	WIND	1	8
06/14	17	SelfSchCut	Local	SOLR	0	
06/14	18	Economic	Local	SOLR	82	62
06/14	18	Economic	System	SOLR	50	424
06/14	18	Economic	System	WIND	1	
06/14	19	Economic	Local	SOLR	45	87
06/14	19	Economic	System	SOLR	17	100
06/14	19	Economic	System	WIND	4	
06/14	19	SelfSchCut	Local	SOLR	2	6
06/14	20	Economic	System	SOLR	1	12
06/14	23	Economic	Local	WIND	6	18
06/14	24	Economic	Local	WIND	11	29

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).



California ISO