

## Wind and Solar Curtailment June 20, 2020

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.

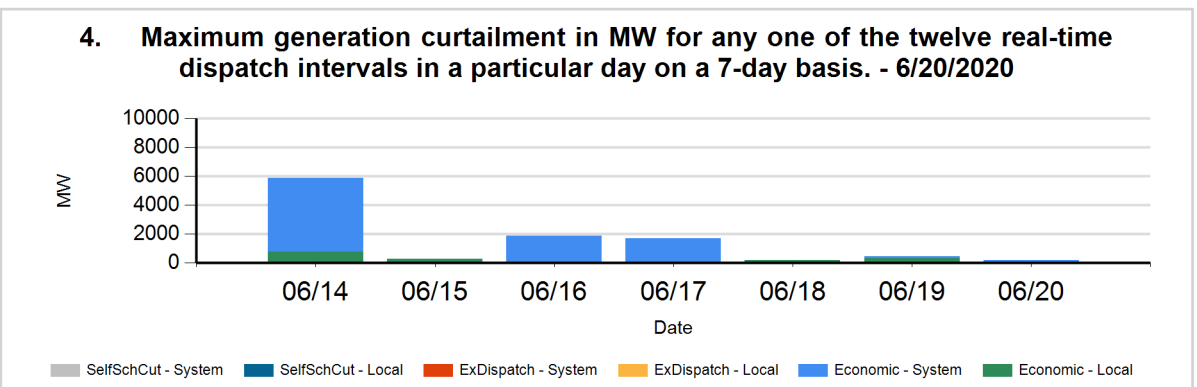
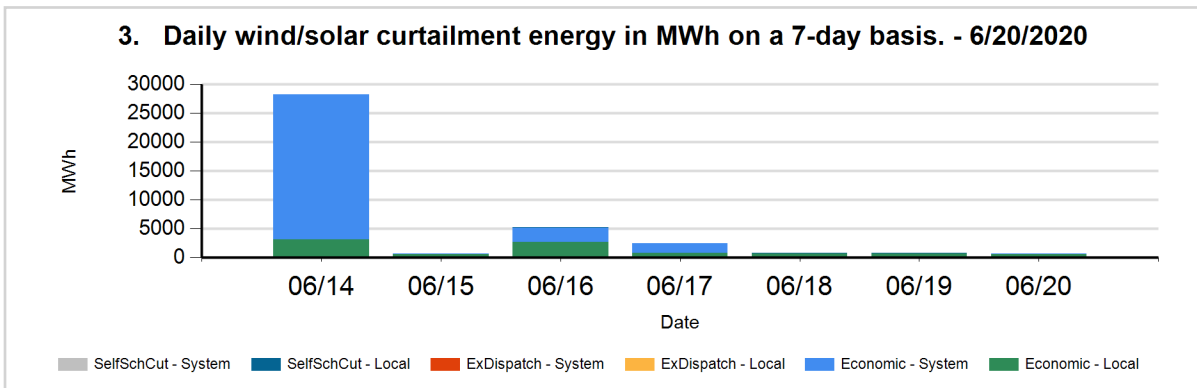
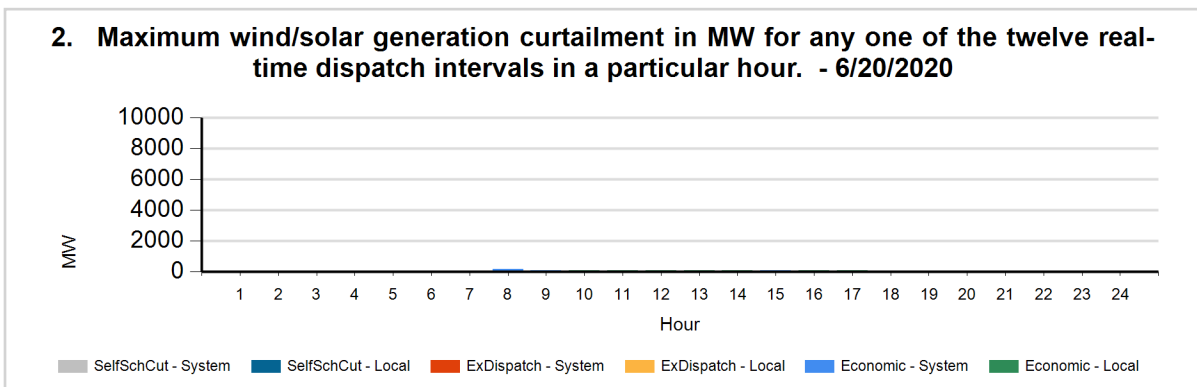
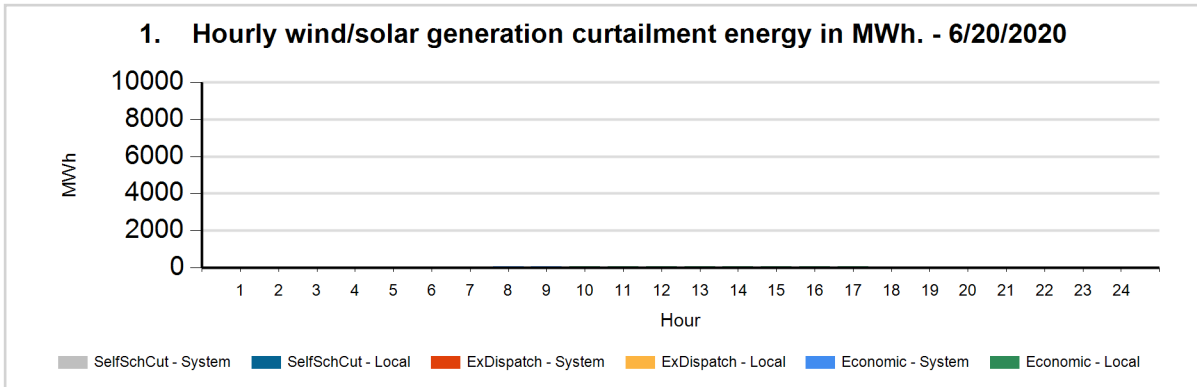
<sup>2</sup>The Renewables Watch report provides daily actual renewable production within the ISO grid. It is available at: <http://www.caiso.com/green/renewableswatch.html>.

<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.

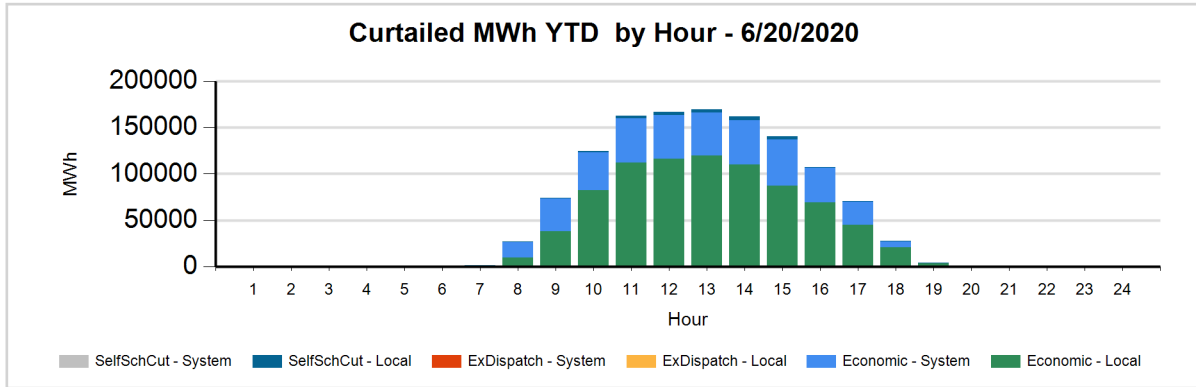
<sup>4</sup>For more information on oversupply conditions, please see:

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

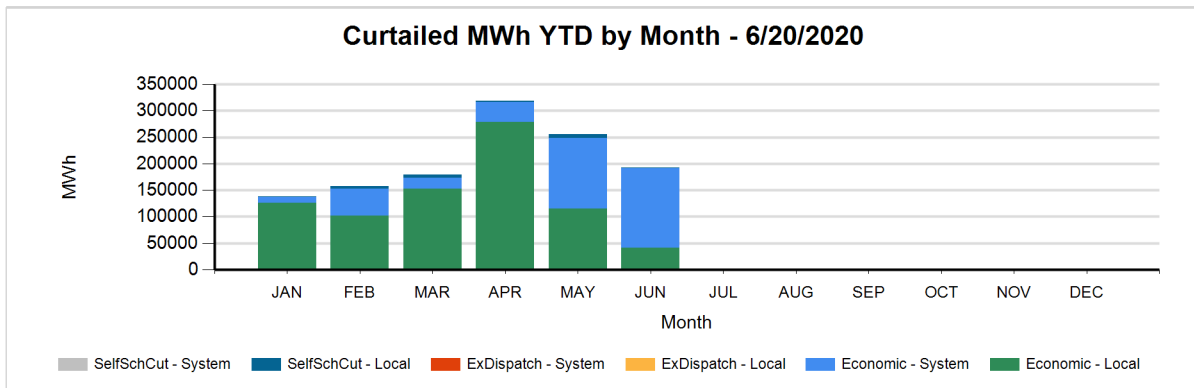
The following charts show the daily and 7-day wind and solar curtailment by category, if any.



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 - 6/20/2020
LocalEconomic	815,134
LocalSelfSchCut	20,196
SystemEconomic	404,760
TOTAL	1,240,089

**Data used to produce hourly chart**

DATE	HOUR	CURT TYPE	REASON	FUEL TYPE	CURTAILED MWH	CURTAILED MW
06/20	6	Economic	Local	SOLR	1	
06/20	6	Economic	Local	WIND	1	11
06/20	7	Economic	Local	SOLR	11	24
06/20	7	Economic	Local	WIND	2	18
06/20	8	Economic	Local	SOLR	39	45
06/20	8	Economic	System	SOLR	21	102
06/20	8	Economic	System	WIND	3	8
06/20	9	Economic	Local	SOLR	48	54
06/20	9	Economic	System	SOLR	1	6
06/20	10	Economic	Local	SOLR	54	60
06/20	11	Economic	Local	SOLR	82	86
06/20	12	Economic	Local	SOLR	70	71
06/20	13	Economic	Local	SOLR	73	76
06/20	14	Economic	Local	SOLR	74	75
06/20	15	Economic	Local	SOLR	62	64
06/20	15	Economic	System	SOLR	0	3
06/20	16	Economic	Local	SOLR	54	63
06/20	17	Economic	Local	SOLR	57	62
06/20	18	Economic	Local	SOLR	34	39
06/20	19	Economic	Local	SOLR	7	24

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).