

## Wind and Solar Curtailment July 01, 2020

This report is produced daily to provide a detailed accounting of the wind and solar renewable generation that was curtailed and the reasons why¹. This report should be read in the context of the Renewables Watch report for a more complete understanding of both renewable curtailment and generation².

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.
- 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.

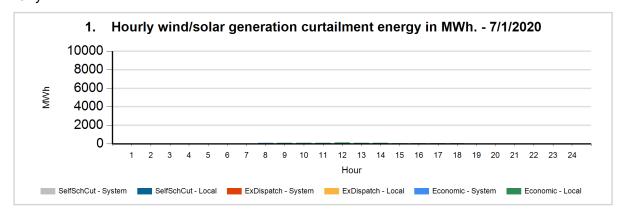
<sup>2</sup>The Renewables Watch report provides daily actual renewable production within the ISO grid. It is available at: <a href="http://www.caiso.com/green/renewableswatch.html">http://www.caiso.com/green/renewableswatch.html</a>.

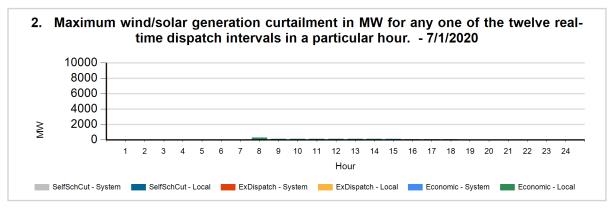
<sup>3</sup>Congestion occurs when available, least-cost energy cannot be delivered to some loads because transmission facilities do not have sufficient capacity to deliver the energy.

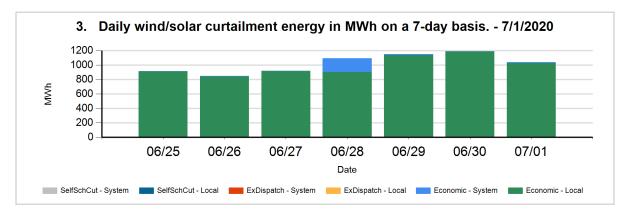
For more information on oversupply conditions, please see: <a href="https://www.caiso.com/Documents/FlexibleResourcesHelpRenewables">https://www.caiso.com/Documents/FlexibleResourcesHelpRenewables</a> FastFacts.pdf

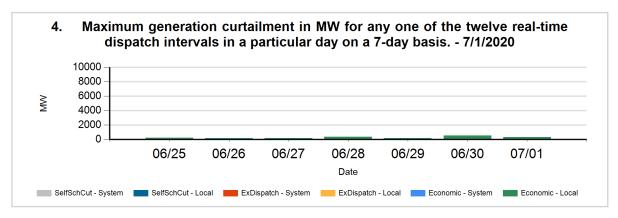


The following charts show the daily and 7-day wind and solar curtailment by category, if any.



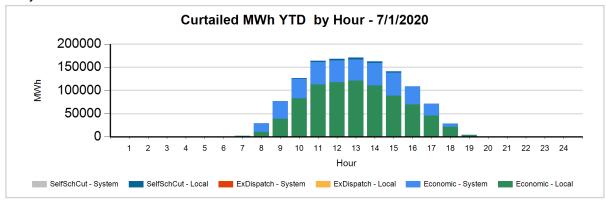




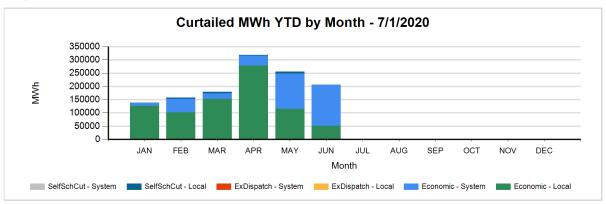




The following charts show hourly year to date wind and solar curtailment by category, if any.



The following charts show monthly year to date wind and solar curtailment by category, if any.



TYPE	YTD CURTAILED MWH - 7/1/2020
LocalEconomic	825,589
LocalSelfSchCut	20,196
SystemEconomic	409,578
TOTAL	1,255,364



## Data used to produce hourly chart

CURTAILED MW	CURTAILED MWH	FUEL TYPE	REASON	CURT TYPE	HOU R	DATE
3	15	SOLR	Local	Economic	7	07/01
	0	SOLR	System	Economic	7	07/01
29	96	SOLR	Local	Economic	8	07/01
	1	WIND	Local	Economic	8	07/01
	7	SOLR	System	Economic	8	07/01
	1	WIND	System	Economic	8	07/01
11	84	SOLR	Local	Economic	9	07/01
10	96	SOLR	Local	Economic	10	07/01
102	91	SOLR	Local	Economic	11	07/01
	0	SOLR	Local	SelfSchCut	11	07/01
12	121	SOLR	Local	Economic	12	07/01
10	103	SOLR	Local	Economic	13	07/01
10	101	SOLR	Local	Economic	14	07/01
10	76	SOLR	Local	Economic	15	07/01
1	2	SOLR	System	Economic	15	07/01
9	79	SOLR	Local	Economic	16	07/01
7	70	SOLR	Local	Economic	17	07/01
7	57	SOLR	Local	Economic	18	07/01
	35	SOLR	Local	Economic	19	07/01
	0	SOLR	System	Economic	19	07/01
1	1	SOLR	Local	Economic	20	07/01

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.

