

## Wind and Solar Curtailment February 28, 2021

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.

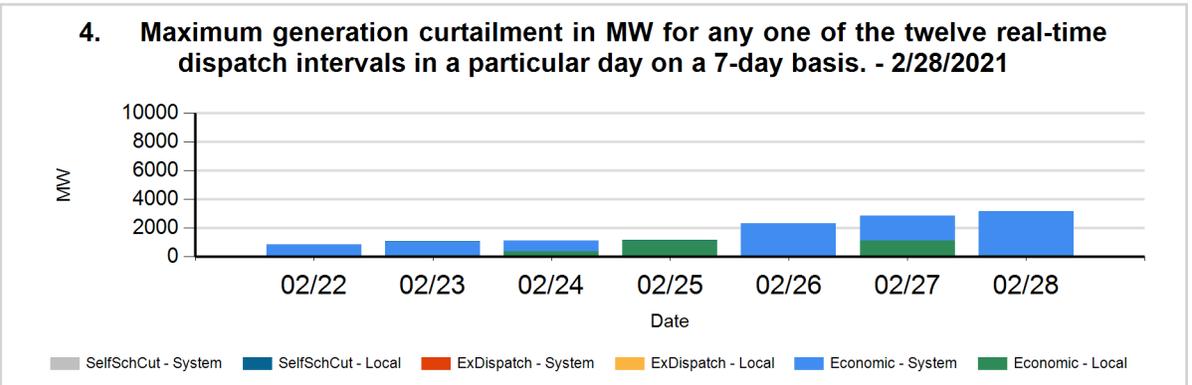
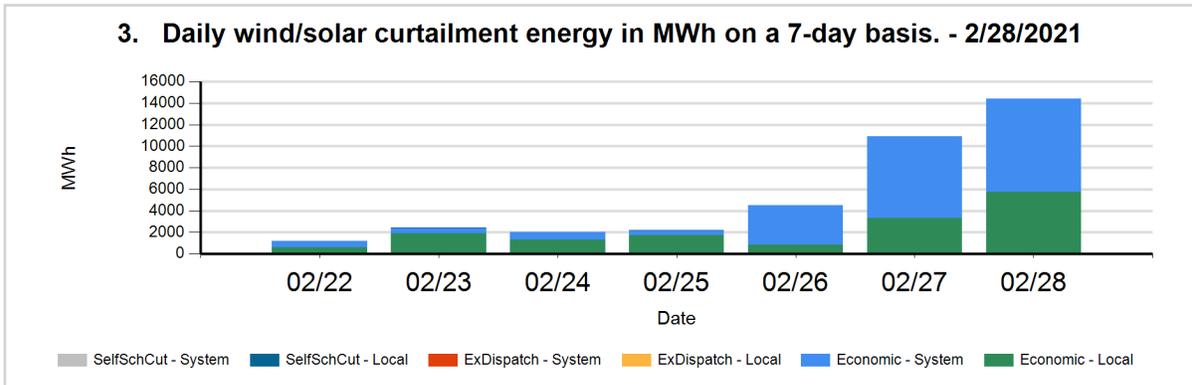
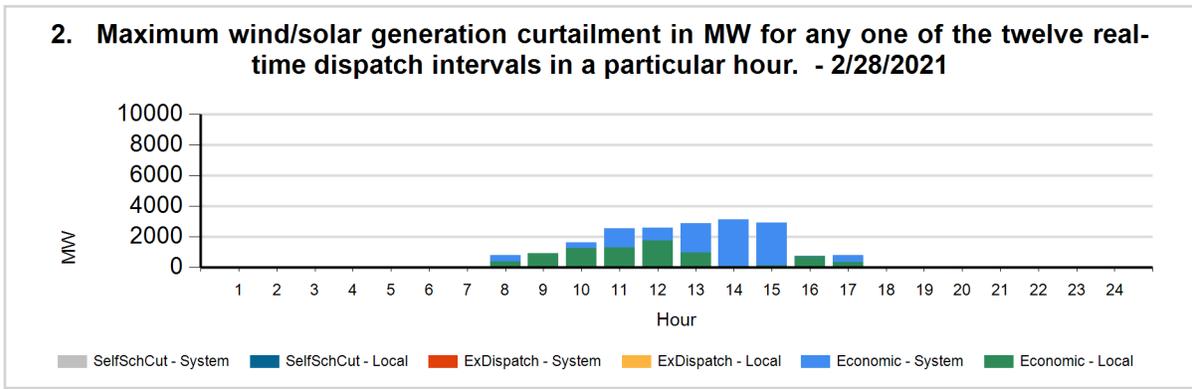
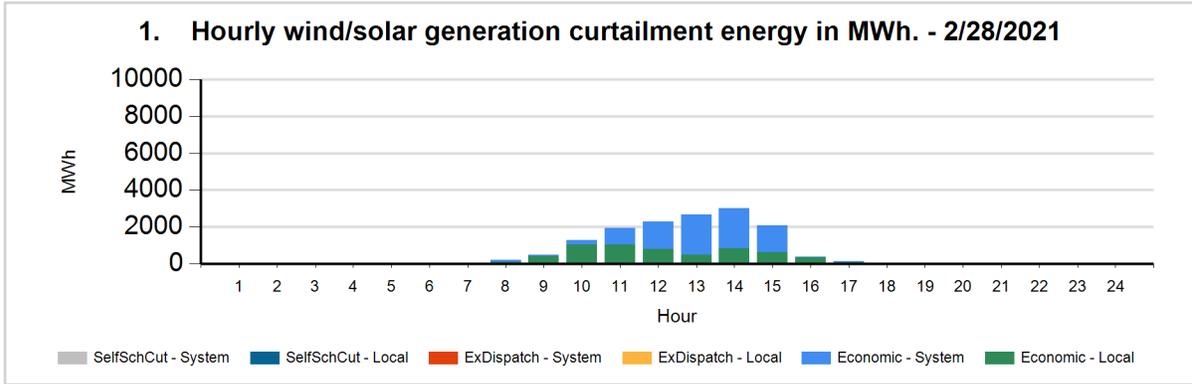
<sup>1</sup>Only wind and solar resources can be reported in this manner because these resources have a forecast. Curtailment is defined as the difference between actual production and the forecast when actual production is less than the forecast.

<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>.

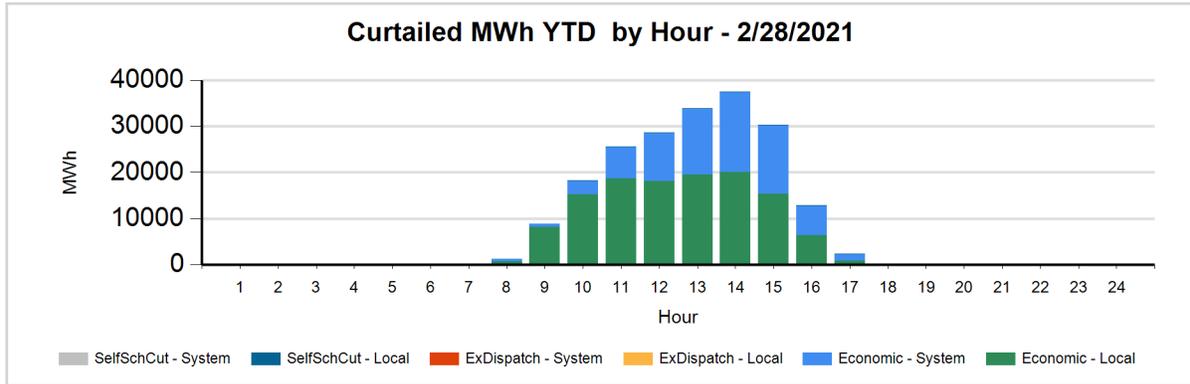
<sup>3</sup>Congestion occurs when available, least-cost energy cannot be delivered to some loads because transmission facilities do not have sufficient capacity to deliver the energy.

<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)

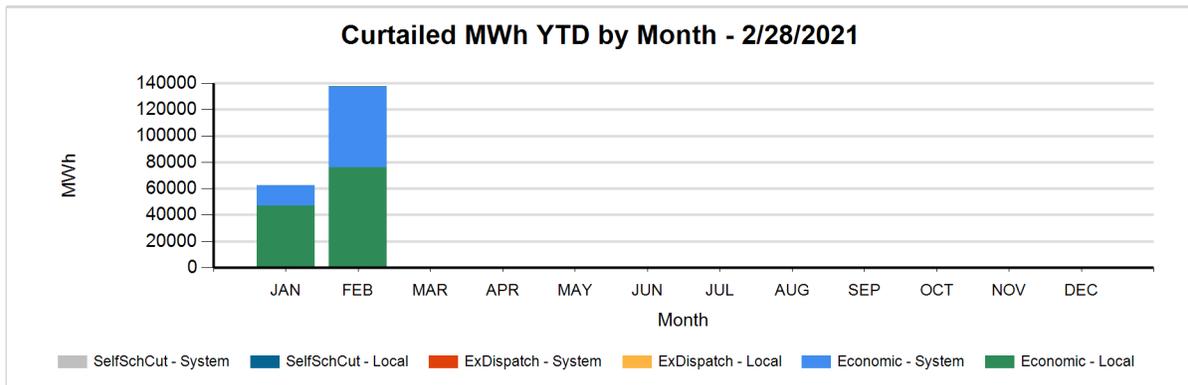
The following charts show the daily and 7-day wind and solar curtailment by category, if any.



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 - 2/28/2021
LocalEconomic	123,057
LocalSelfSchCut	473
SystemEconomic	76,531
TOTAL	200,061

**Data used to produce hourly chart**

DATE	HOUR	CURT TYPE	REASON	FUEL TYPE	CURTAILED MWH	CURTAILED MW
02/28	7	Economic	System	SOLR	1	14
02/28	8	Economic	Local	SOLR	111	353
02/28	8	Economic	System	SOLR	79	425
02/28	8	Economic	System	WIND	4	13
02/28	9	Economic	Local	SOLR	362	895
02/28	9	Economic	Local	WIND	45	
02/28	9	Economic	System	SOLR	62	
02/28	9	Economic	System	WIND	2	
02/28	10	Economic	Local	SOLR	881	1095
02/28	10	Economic	Local	WIND	140	170
02/28	10	Economic	System	SOLR	236	349
02/28	10	Economic	System	WIND	7	12
02/28	11	Economic	Local	SOLR	932	1156
02/28	11	Economic	Local	WIND	107	132
02/28	11	Economic	System	SOLR	874	1258
02/28	11	Economic	System	WIND	10	12
02/28	12	Economic	Local	SOLR	721	1646
02/28	12	Economic	Local	WIND	74	103
02/28	12	Economic	System	SOLR	1485	830
02/28	12	Economic	System	WIND	14	6
02/28	13	Economic	Local	SOLR	476	949
02/28	13	Economic	Local	WIND	3	5
02/28	13	Economic	System	SOLR	2156	1915
02/28	13	Economic	System	WIND	17	23
02/28	14	Economic	Local	SOLR	840	67
02/28	14	Economic	Local	WIND	2	
02/28	14	Economic	System	SOLR	2161	3058
02/28	14	Economic	System	WIND	16	12
02/28	15	Economic	Local	SOLR	573	104
02/28	15	Economic	Local	WIND	30	
02/28	15	Economic	System	SOLR	1444	2772

02/28	15	Economic	System	WIND	14	21
02/28	16	Economic	Local	SOLR	335	729
02/28	16	Economic	Local	WIND	35	1
02/28	16	Economic	System	SOLR	23	5
02/28	16	Economic	System	WIND	0	
02/28	17	Economic	Local	SOLR	54	310
02/28	17	Economic	Local	WIND	9	
02/28	17	Economic	System	SOLR	67	467
02/28	17	Economic	System	WIND	1	6

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).