

## Wind and Solar Curtailment April 02, 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.

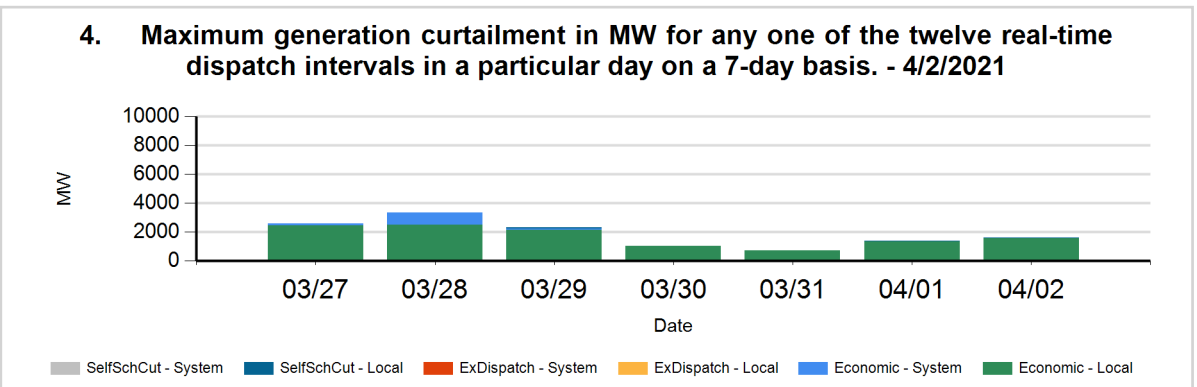
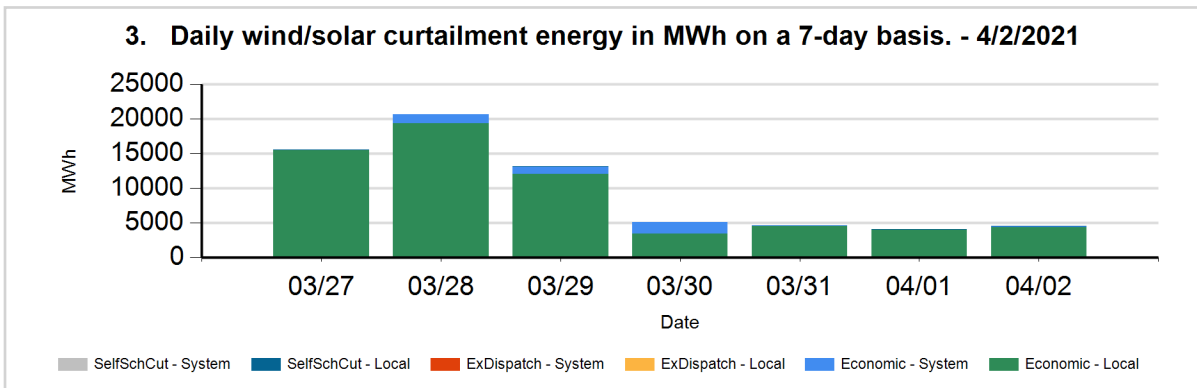
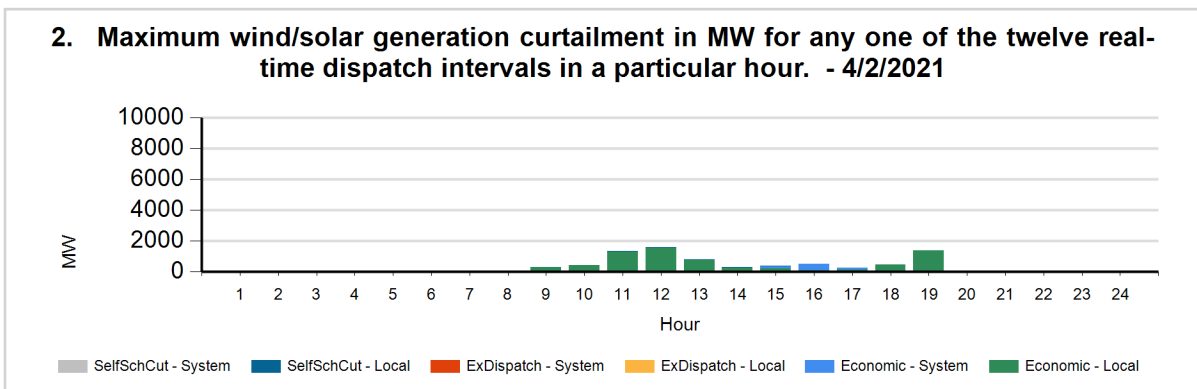
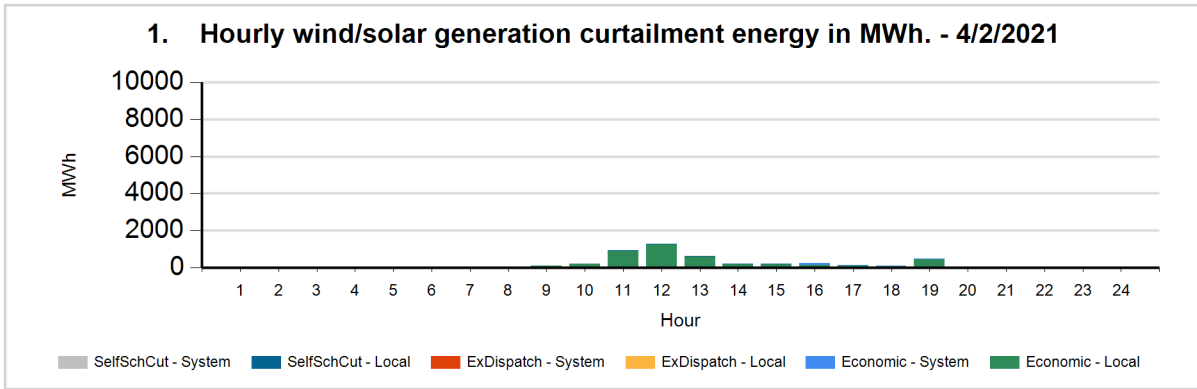
<sup>1</sup>Only wind and solar resources can be reported in this manner because these resources have a forecast. Curtailment is defined as the difference between actual production and the forecast when actual production is less than the forecast.

<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>.

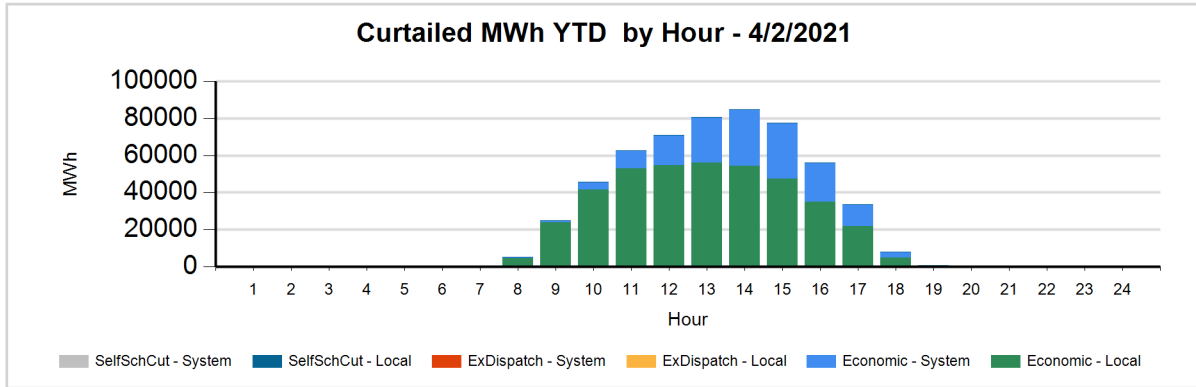
<sup>3</sup>Congestion occurs when available, least-cost energy cannot be delivered to some loads because transmission facilities do not have sufficient capacity to deliver the energy.

<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)

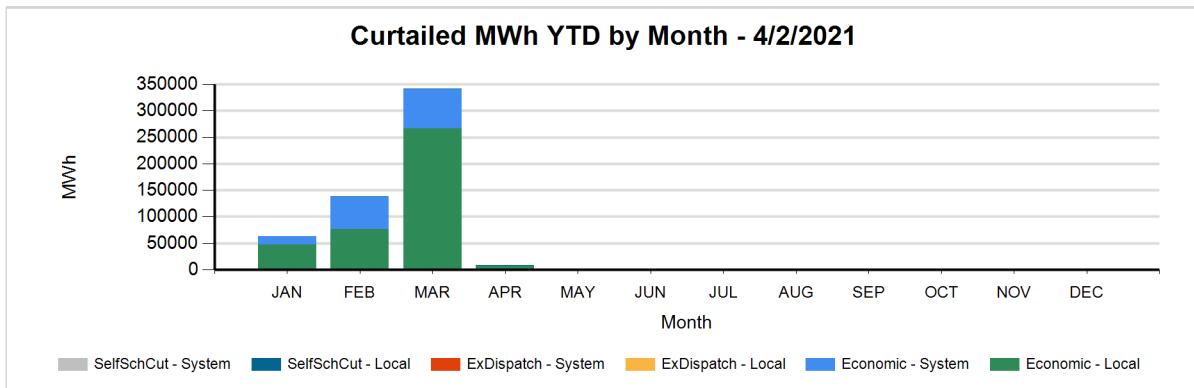
The following charts show the daily and 7-day wind and solar curtailment by category, if any.



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 - 4/2/2021
LocalEconomic	397,469
LocalSelfSchCut	1,733
SystemEconomic	151,432
TOTAL	550,634

Data used to produce hourly chart

DATE	HOUR	CURT TYPE	REASON	FUEL TYPE	CURTAILED MWH	CURTAILED MW
04/02	8	Economic	Local	SOLR	26	56
04/02	9	Economic	Local	SOLR	108	247
04/02	9	Economic	Local	WIND	4	23
04/02	10	Economic	Local	SOLR	215	402
04/02	10	Economic	Local	WIND	5	8
04/02	11	Economic	Local	SOLR	895	1278
04/02	11	Economic	Local	WIND	32	64
04/02	11	SelfSchCut	Local	SOLR	2	6
04/02	12	Economic	Local	SOLR	1226	1520
04/02	12	Economic	Local	WIND	46	59
04/02	12	Economic	System	SOLR	9	
04/02	12	SelfSchCut	Local	SOLR	7	3
04/02	13	Economic	Local	SOLR	566	730
04/02	13	Economic	Local	WIND	47	44
04/02	13	SelfSchCut	Local	SOLR	11	14
04/02	14	Economic	Local	SOLR	183	280
04/02	14	Economic	Local	WIND	1	
04/02	14	SelfSchCut	Local	SOLR	7	7
04/02	15	Economic	Local	SOLR	127	97
04/02	15	Economic	Local	WIND	46	121
04/02	15	Economic	System	SOLR	22	116
04/02	15	Economic	System	WIND	1	8
04/02	15	SelfSchCut	Local	SOLR	7	10
04/02	16	Economic	Local	SOLR	100	84
04/02	16	Economic	Local	WIND	22	
04/02	16	Economic	System	SOLR	58	302
04/02	16	Economic	System	WIND	49	104
04/02	16	SelfSchCut	Local	SOLR	0	
04/02	17	Economic	Local	SOLR	101	123
04/02	17	Economic	Local	WIND	3	
04/02	17	Economic	System	SOLR	0	

04/02	17	Economic	System	WIND	15	104
04/02	18	Economic	Local	SOLR	77	325
04/02	18	Economic	Local	WIND	24	138
04/02	18	Economic	System	WIND	1	
04/02	19	Economic	Local	SOLR	312	1093
04/02	19	Economic	Local	WIND	164	274
04/02	19	Economic	System	WIND	1	
04/02	20	Economic	Local	WIND	0	6
04/02	21	Economic	System	WIND	1	13

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).