

## Wind and Solar Curtailment April 08, 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.

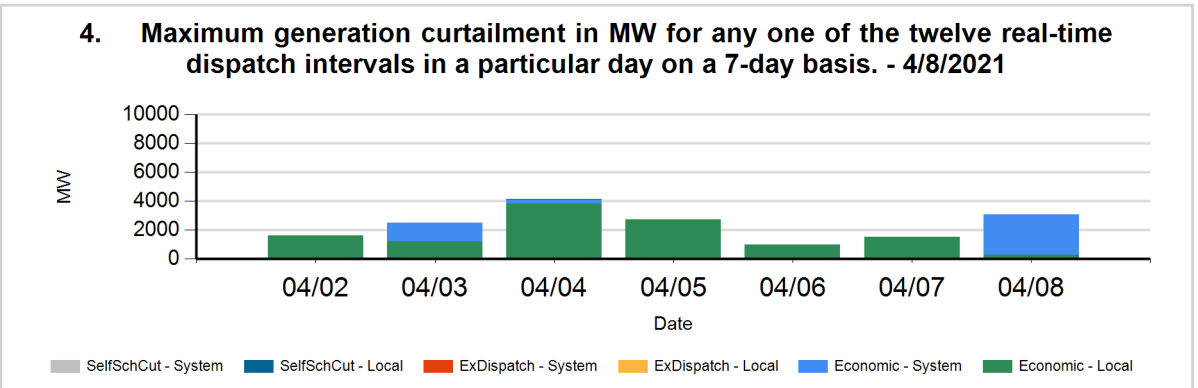
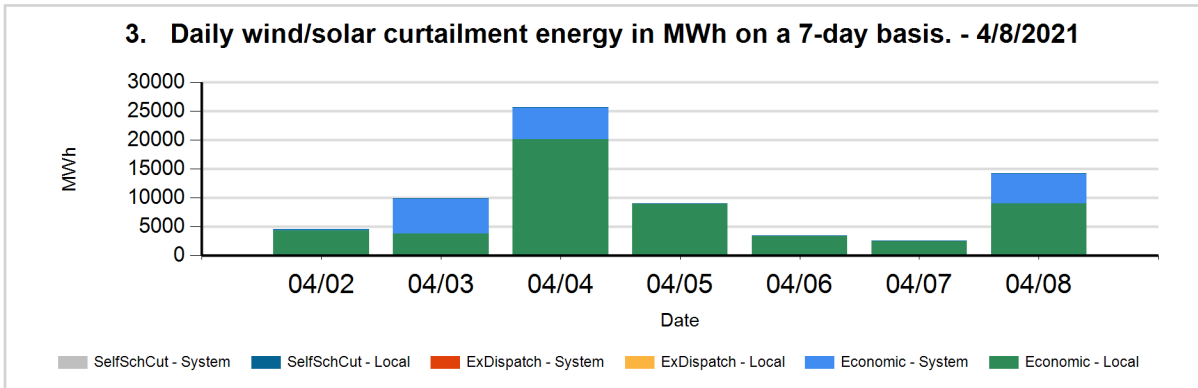
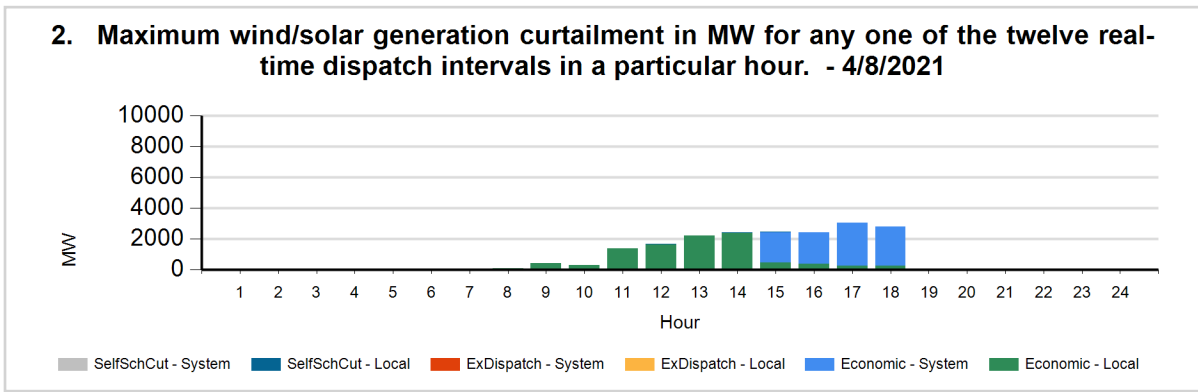
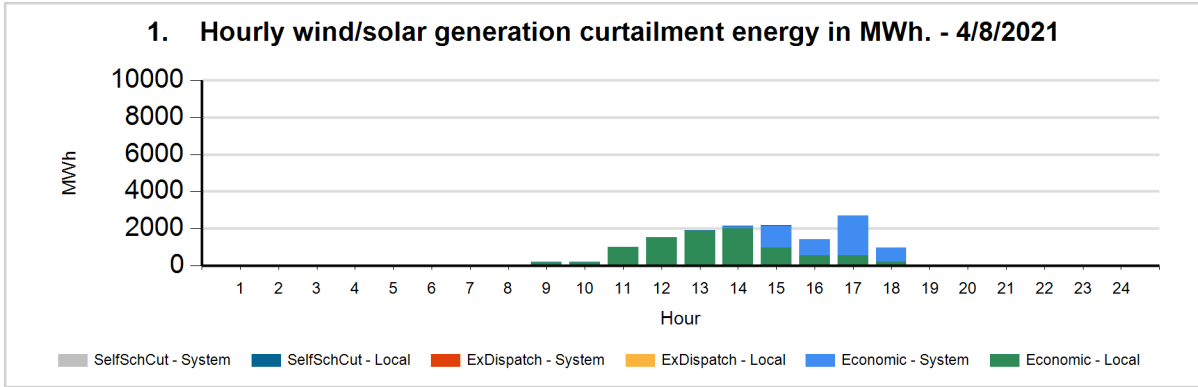
<sup>1</sup>Only wind and solar resources can be reported in this manner because these resources have a forecast. Curtailment is defined as the difference between actual production and the forecast when actual production is less than the forecast.

<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>.

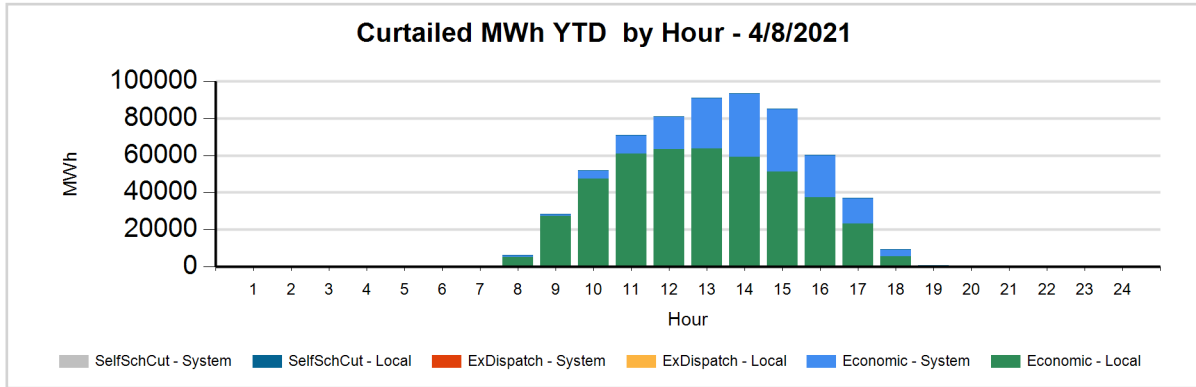
<sup>3</sup>Congestion occurs when available, least-cost energy cannot be delivered to some loads because transmission facilities do not have sufficient capacity to deliver the energy.

<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)

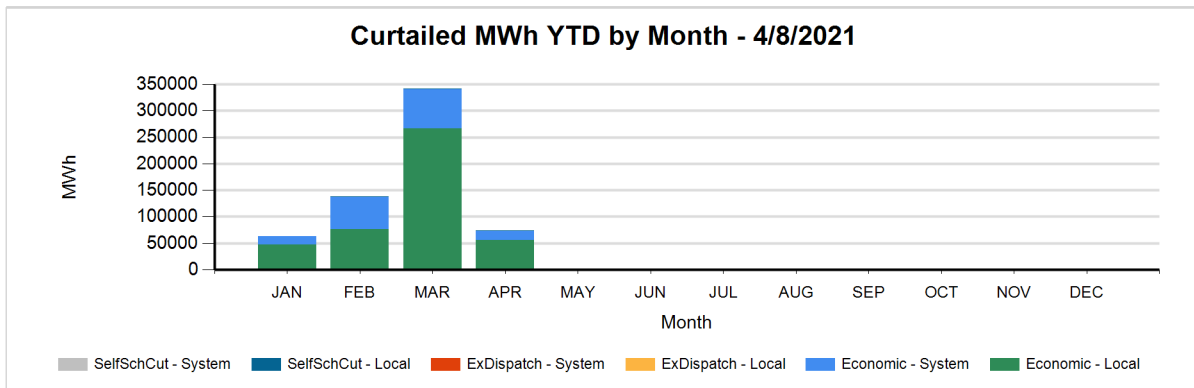
The following charts show the daily and 7-day wind and solar curtailment by category, if any.



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 - 4/8/2021
LocalEconomic	445,061
LocalSelfSchCut	1,991
SystemEconomic	168,270
TOTAL	615,323

**Data used to produce hourly chart**

DATE	HOUR	CURT TYPE	REASON	FUEL TYPE	CURTAILED MWH	CURTAILED MW
04/08	7	Economic	Local	WIND	0	2
04/08	8	Economic	Local	SOLR	2	17
04/08	8	Economic	Local	WIND	11	70
04/08	8	Economic	System	SOLR	0	
04/08	9	Economic	Local	SOLR	132	342
04/08	9	Economic	Local	WIND	46	88
04/08	9	Economic	System	SOLR	13	
04/08	10	Economic	Local	SOLR	159	308
04/08	10	Economic	Local	WIND	25	
04/08	10	Economic	System	SOLR	16	
04/08	11	Economic	Local	SOLR	914	1215
04/08	11	Economic	Local	WIND	76	139
04/08	11	SelfSchCut	Local	SOLR	0	
04/08	12	Economic	Local	SOLR	1340	1433
04/08	12	Economic	Local	WIND	167	227
04/08	12	SelfSchCut	Local	SOLR	4	10
04/08	13	Economic	Local	SOLR	1702	1953
04/08	13	Economic	Local	WIND	178	269
04/08	13	Economic	System	SOLR	31	
04/08	13	Economic	System	WIND	4	
04/08	13	SelfSchCut	Local	SOLR	1	
04/08	14	Economic	Local	SOLR	1798	2026
04/08	14	Economic	Local	WIND	199	348
04/08	14	Economic	System	SOLR	122	27
04/08	14	Economic	System	WIND	19	
04/08	14	SelfSchCut	Local	SOLR	4	8
04/08	15	Economic	Local	SOLR	852	456
04/08	15	Economic	Local	WIND	103	
04/08	15	Economic	System	SOLR	946	1580
04/08	15	Economic	System	WIND	281	395
04/08	15	SelfSchCut	Local	SOLR	3	12

04/08	16	Economic	Local	SOLR	475	385
04/08	16	Economic	Local	WIND	75	
04/08	16	Economic	System	SOLR	625	1640
04/08	16	Economic	System	WIND	237	403
04/08	16	SelfSchCut	Local	SOLR	0	
04/08	17	Economic	Local	SOLR	532	246
04/08	17	Economic	Local	WIND	18	
04/08	17	Economic	System	SOLR	1864	2534
04/08	17	Economic	System	WIND	266	279
04/08	17	SelfSchCut	Local	SOLR	0	
04/08	18	Economic	Local	SOLR	159	241
04/08	18	Economic	Local	WIND	27	
04/08	18	Economic	System	SOLR	683	2281
04/08	18	Economic	System	WIND	106	250
04/08	19	Economic	Local	SOLR	12	49

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).