

Wind and Solar Curtailment April 04, 2021

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 congestion³.
2. Economic - System: Market dispatch of generators with economic bids to mitigate system-wide oversupply⁴.
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.

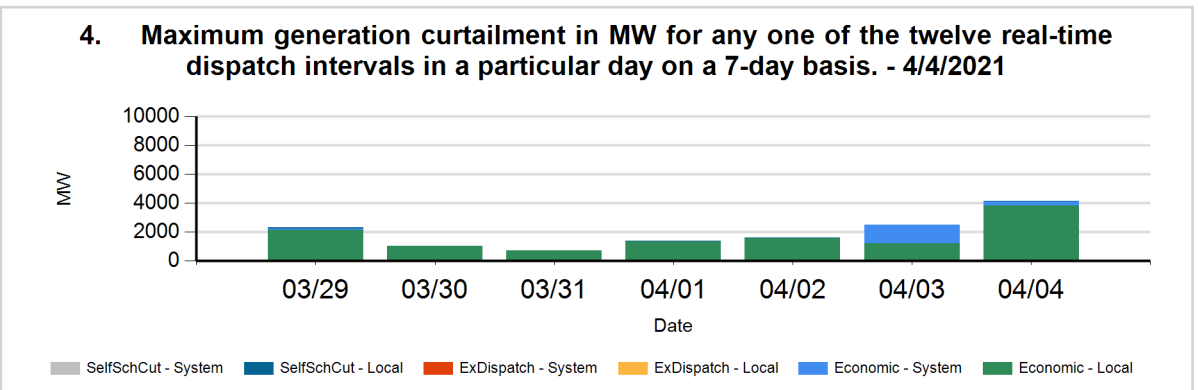
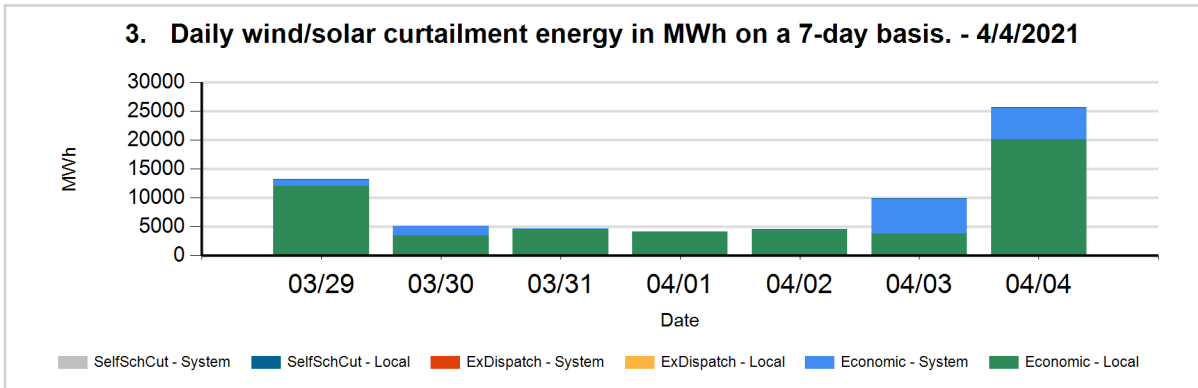
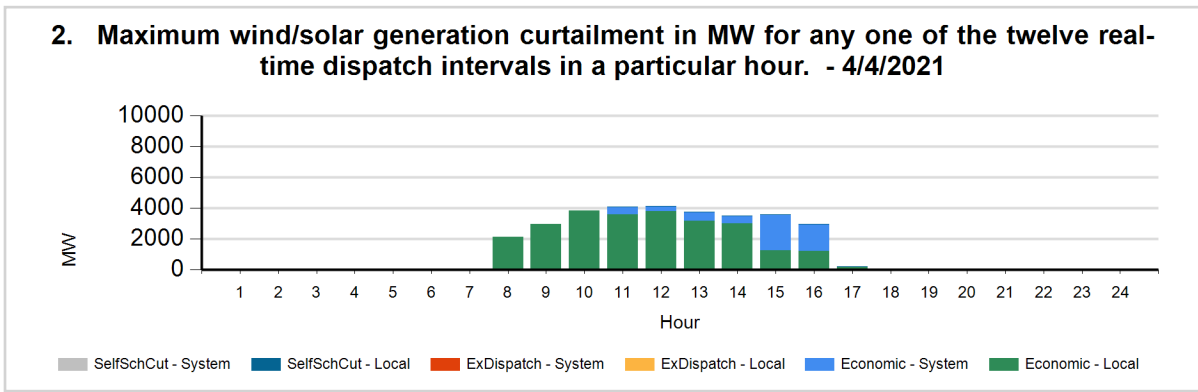
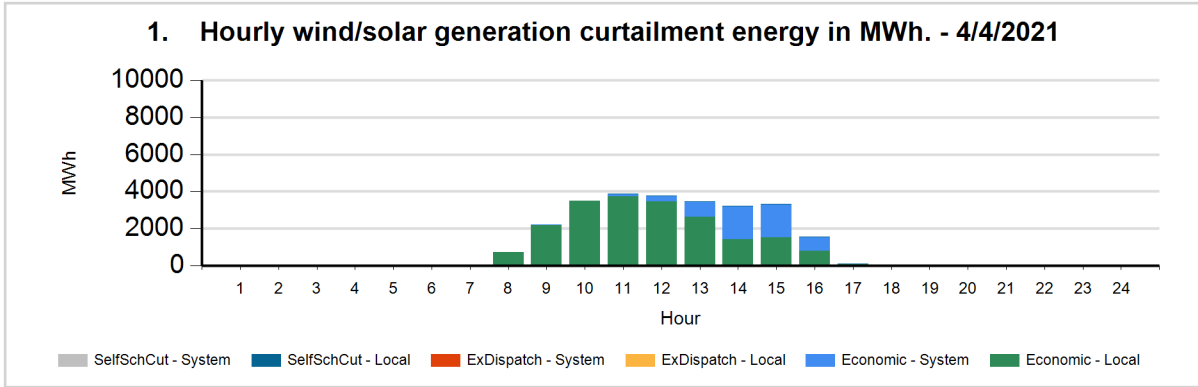
¹Only wind and solar resources can be reported in this manner because these resources have a forecast. Curtailment is defined as the difference between actual production and the forecast when actual production is less than the forecast.

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

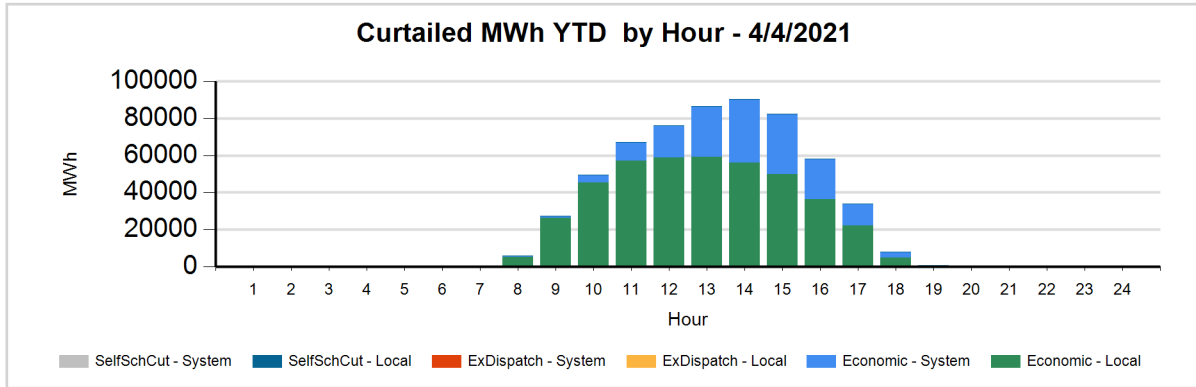
³Congestion occurs when available, least-cost energy cannot be delivered to some loads because transmission facilities do not have sufficient capacity to deliver the energy.

⁴For more information on oversupply conditions, please see: https://www.caiso.com/Documents/FlexibleResourcesHelpRenewables_FastFacts.pdf

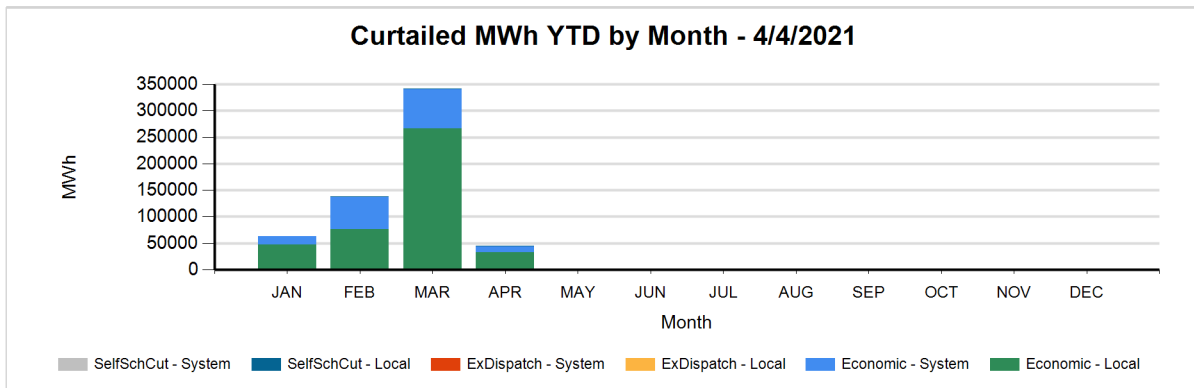
The following charts show the daily and 7-day wind and solar curtailment by category, if any.



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 - 4/4/2021
LocalEconomic	421,352
LocalSelfSchCut	1,841
SystemEconomic	162,956
TOTAL	586,149

Data used to produce hourly chart

DATE	HOUR	CURT TYPE	REASON	FUEL TYPE	CURTAILED MWH	CURTAILED MW
04/04	8	Economic	Local	SOLR	654	1837
04/04	8	Economic	Local	WIND	71	273
04/04	9	Economic	Local	SOLR	2056	2820
04/04	9	Economic	Local	WIND	139	151
04/04	9	Economic	System	SOLR	2	
04/04	10	Economic	Local	SOLR	3222	3432
04/04	10	Economic	Local	WIND	279	393
04/04	11	Economic	Local	SOLR	3442	3190
04/04	11	Economic	Local	WIND	291	377
04/04	11	Economic	System	SOLR	117	475
04/04	11	Economic	System	WIND	3	
04/04	11	SelfSchCut	Local	SOLR	16	27
04/04	12	Economic	Local	SOLR	3264	3459
04/04	12	Economic	Local	WIND	203	348
04/04	12	Economic	System	SOLR	269	294
04/04	12	Economic	System	WIND	5	5
04/04	12	SelfSchCut	Local	SOLR	26	28
04/04	13	Economic	Local	SOLR	2510	3060
04/04	13	Economic	Local	WIND	102	98
04/04	13	Economic	System	SOLR	794	563
04/04	13	Economic	System	WIND	22	6
04/04	13	SelfSchCut	Local	SOLR	28	38
04/04	14	Economic	Local	SOLR	1366	2886
04/04	14	Economic	Local	WIND	60	101
04/04	14	Economic	System	SOLR	1720	497
04/04	14	Economic	System	WIND	53	6
04/04	14	SelfSchCut	Local	SOLR	7	8
04/04	15	Economic	Local	SOLR	1459	1194
04/04	15	Economic	Local	WIND	66	52
04/04	15	Economic	System	SOLR	1725	2205
04/04	15	Economic	System	WIND	57	132

04/04	15	SelfSchCut	Local	SOLR	5	8
04/04	16	Economic	Local	SOLR	749	1123
04/04	16	Economic	Local	WIND	57	84
04/04	16	Economic	System	SOLR	697	1652
04/04	16	Economic	System	WIND	26	82
04/04	16	SelfSchCut	Local	SOLR	19	25
04/04	17	Economic	Local	SOLR	85	169
04/04	17	Economic	System	WIND	2	
04/04	17	SelfSchCut	Local	SOLR	4	15
04/04	18	Economic	Local	SOLR	11	22
04/04	19	Economic	Local	SOLR	0	2

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.