

Wind and Solar Curtailment April 03, 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.

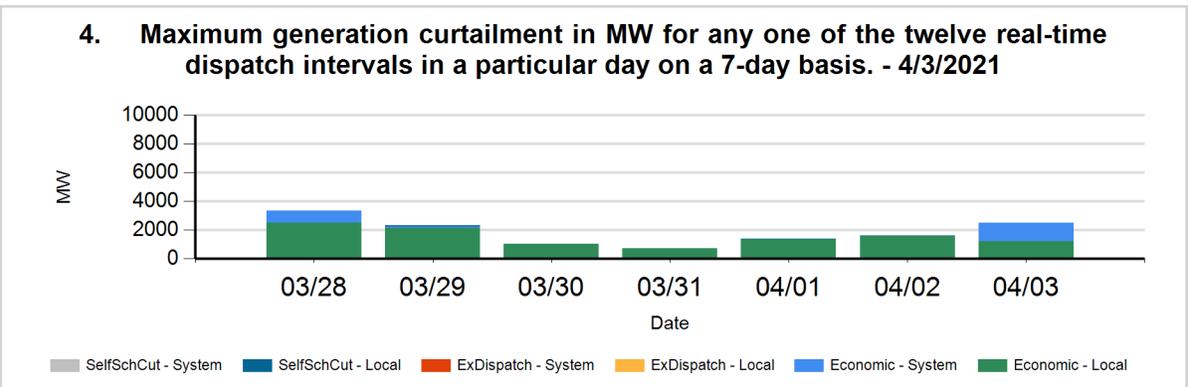
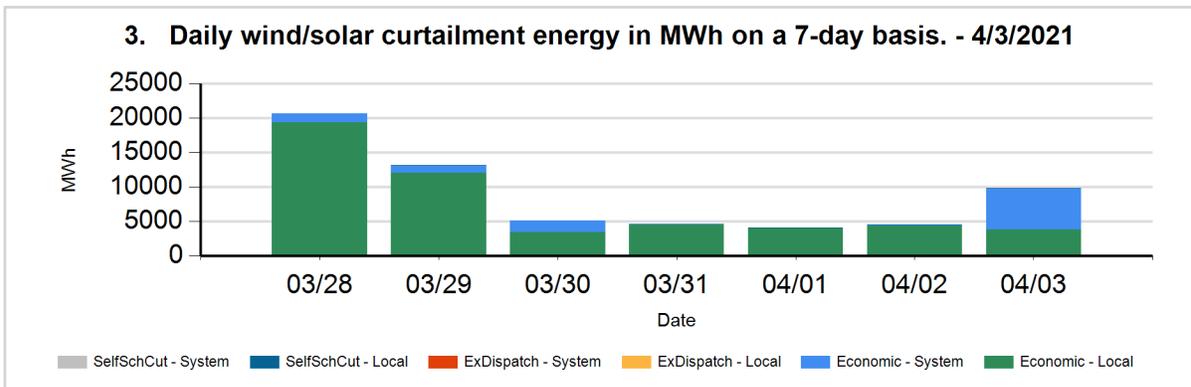
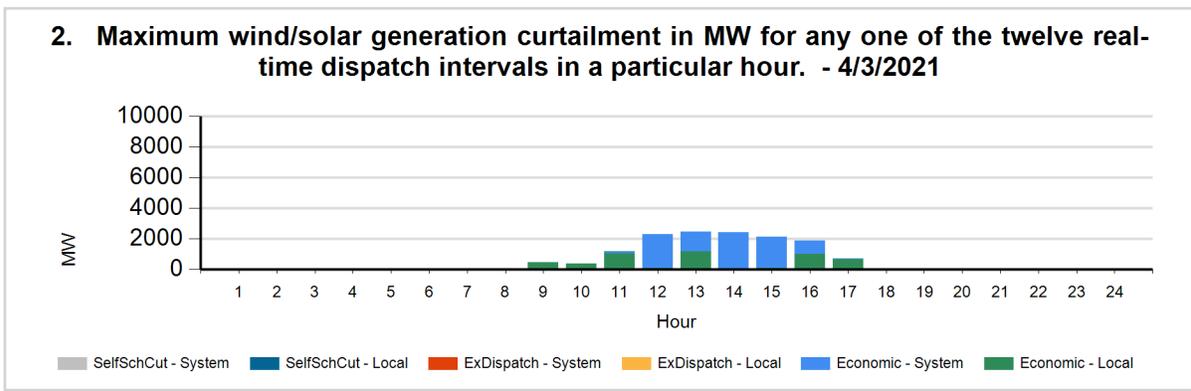
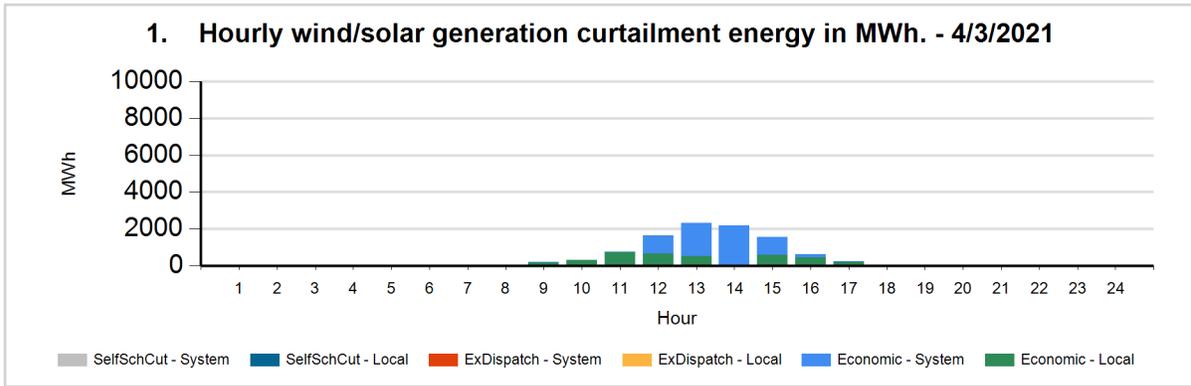
¹Only wind and solar resources can be reported in this manner because these resources have a forecast. Curtailment is defined as the difference between actual production and the forecast when actual production is less than the forecast.

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

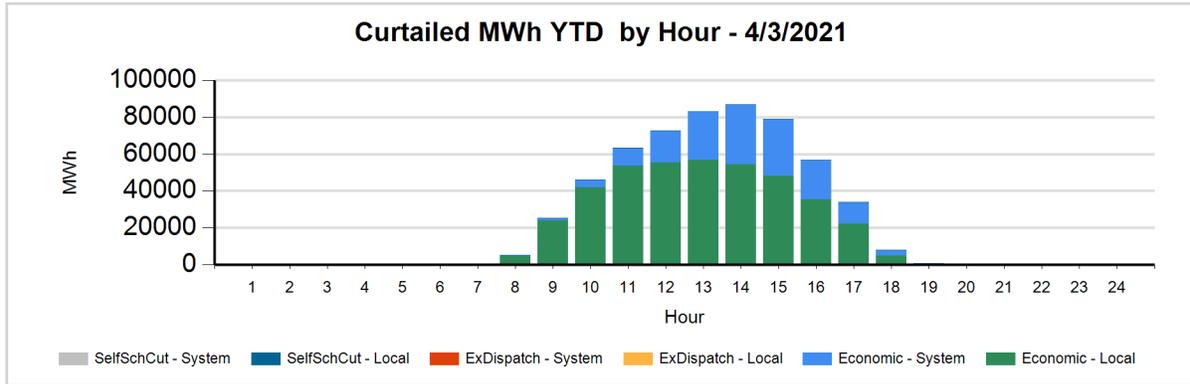
³Congestion occurs when available, least-cost energy cannot be delivered to some loads because transmission facilities do not have sufficient capacity to deliver the energy.

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

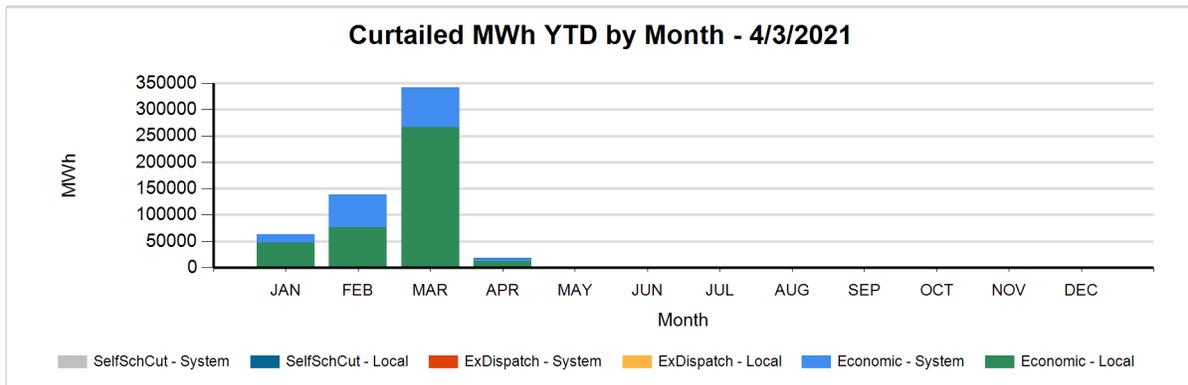
The following charts show the daily and 7-day wind and solar curtailment by category, if any.



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 - 4/3/2021
LocalEconomic	401,268
LocalSelfSchCut	1,736
SystemEconomic	157,465
TOTAL	560,469

Data used to produce hourly chart

DATE	HOUR	CURT TYPE	REASON	FUEL TYPE	CURTAILED MWH	CURTAILED MW
04/03	8	Economic	Local	SOLR	25	55
04/03	8	Economic	System	SOLR	2	
04/03	9	Economic	Local	SOLR	182	412
04/03	9	Economic	Local	WIND	17	29
04/03	9	Economic	System	SOLR	1	
04/03	10	Economic	Local	SOLR	310	362
04/03	10	Economic	Local	WIND	8	18
04/03	11	Economic	Local	SOLR	696	1002
04/03	11	Economic	Local	WIND	21	41
04/03	11	Economic	System	SOLR	23	95
04/03	11	Economic	System	WIND	13	22
04/03	11	SelfSchCut	Local	SOLR	0	4
04/03	12	Economic	Local	SOLR	632	72
04/03	12	Economic	Local	WIND	23	
04/03	12	Economic	System	SOLR	906	2140
04/03	12	Economic	System	WIND	49	84
04/03	12	SelfSchCut	Local	SOLR	2	
04/03	13	Economic	Local	SOLR	503	1117
04/03	13	Economic	Local	WIND	24	64
04/03	13	Economic	System	SOLR	1702	1249
04/03	13	Economic	System	WIND	80	38
04/03	14	Economic	Local	SOLR	45	38
04/03	14	Economic	System	SOLR	2044	2248
04/03	14	Economic	System	WIND	99	117
04/03	15	Economic	Local	SOLR	554	65
04/03	15	Economic	Local	WIND	42	
04/03	15	Economic	System	SOLR	904	1957
04/03	15	Economic	System	WIND	60	93
04/03	15	SelfSchCut	Local	SOLR	0	
04/03	16	Economic	Local	SOLR	417	902
04/03	16	Economic	Local	WIND	39	82

04/03	16	Economic	System	SOLR	128	881
04/03	16	Economic	System	WIND	21	21
04/03	17	Economic	Local	SOLR	204	603
04/03	17	Economic	Local	WIND	31	92
04/03	17	Economic	System	SOLR	1	4
04/03	17	SelfSchCut	Local	SOLR	0	
04/03	18	Economic	Local	SOLR	25	52
04/03	18	SelfSchCut	Local	SOLR	1	2
04/03	19	Economic	Local	SOLR	2	15

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.