

Wind and Solar Curtailment April 18, 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.

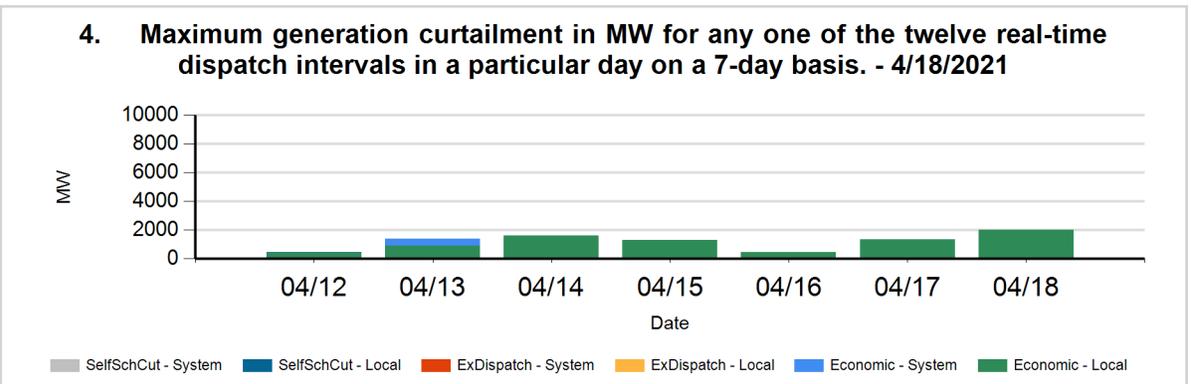
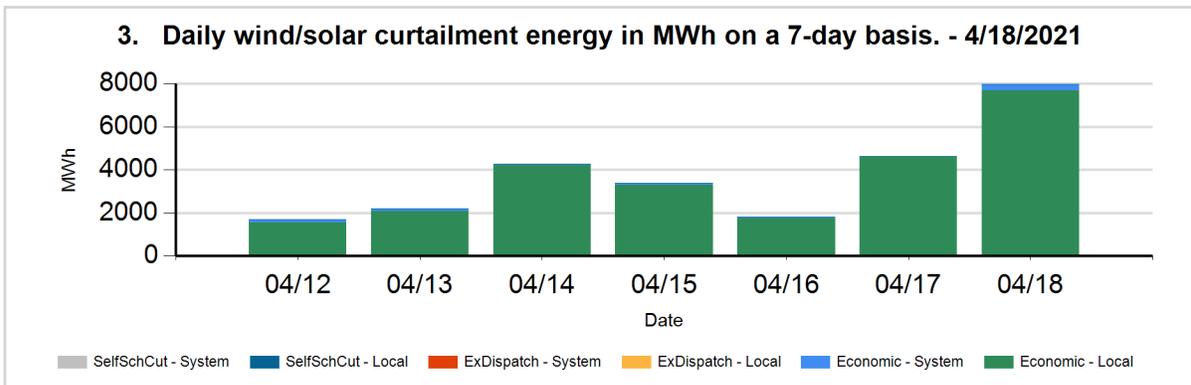
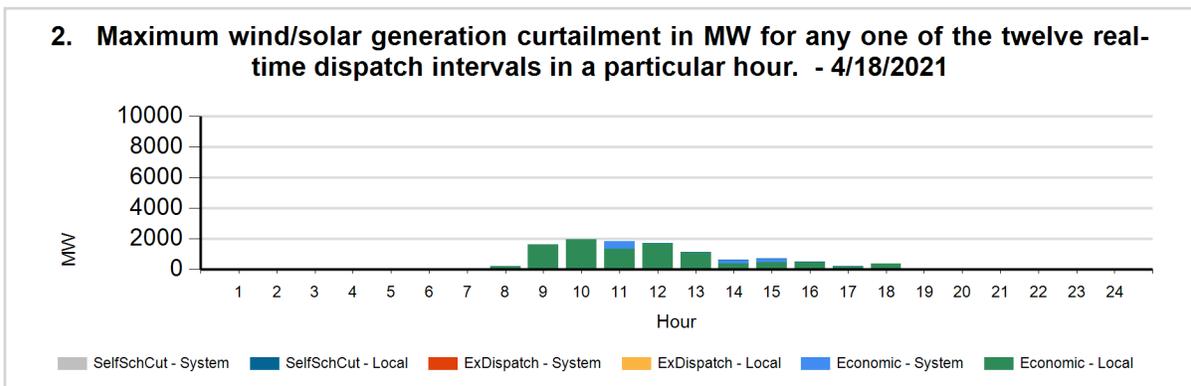
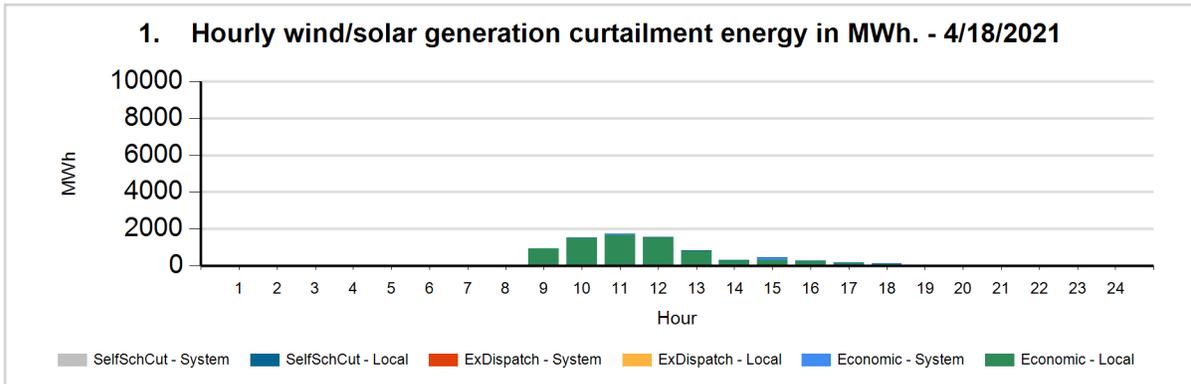
¹Only wind and solar resources can be reported in this manner because these resources have a forecast. Curtailment is defined as the difference between actual production and the forecast when actual production is less than the forecast.

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

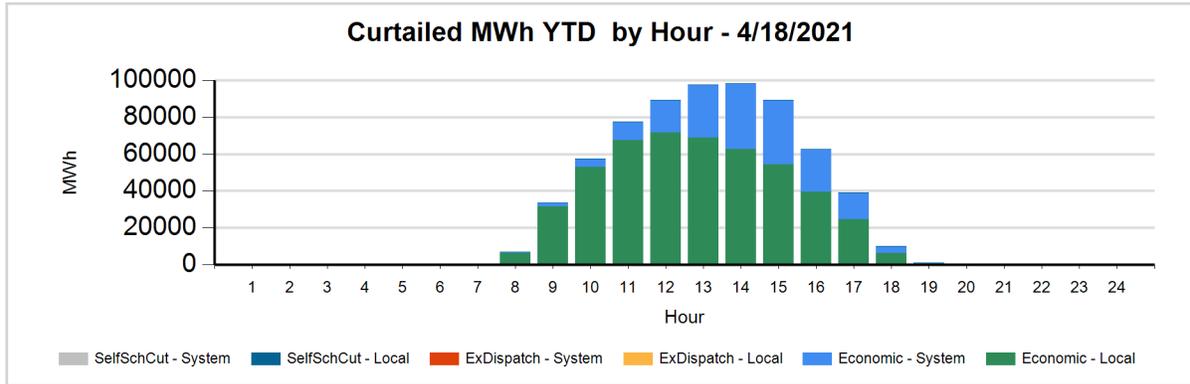
³Congestion occurs when available, least-cost energy cannot be delivered to some loads because transmission facilities do not have sufficient capacity to deliver the energy.

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

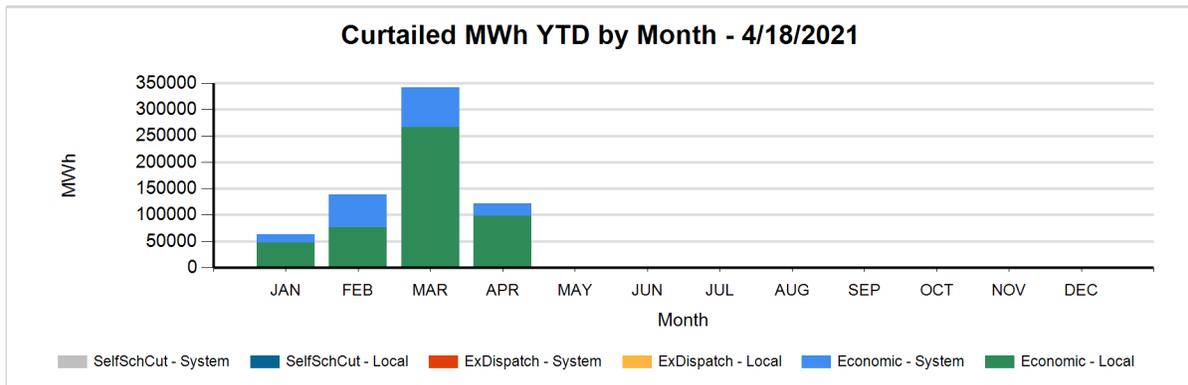
The following charts show the daily and 7-day wind and solar curtailment by category, if any.



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 - 4/18/2021
LocalEconomic	487,026
LocalSelfSchCut	2,161
SystemEconomic	174,108
TOTAL	663,295

Data used to produce hourly chart

DATE	HOUR	CURT TYPE	REASON	FUEL TYPE	CURTAILED MWH	CURTAILED MW
04/18	7	Economic	Local	SOLR	1	12
04/18	7	Economic	Local	WIND	0	
04/18	7	Economic	System	SOLR	1	
04/18	8	Economic	Local	SOLR	40	198
04/18	8	Economic	System	SOLR	3	
04/18	9	Economic	Local	SOLR	882	1496
04/18	9	Economic	Local	WIND	61	107
04/18	10	Economic	Local	SOLR	1394	1810
04/18	10	Economic	Local	WIND	125	165
04/18	10	SelfSchCut	Local	SOLR	1	
04/18	11	Economic	Local	SOLR	1513	1298
04/18	11	Economic	Local	WIND	138	27
04/18	11	Economic	System	SOLR	58	382
04/18	11	Economic	System	WIND	20	122
04/18	11	SelfSchCut	Local	SOLR	1	
04/18	12	Economic	Local	SOLR	1391	1503
04/18	12	Economic	Local	WIND	163	176
04/18	12	SelfSchCut	Local	SOLR	6	12
04/18	13	Economic	Local	SOLR	764	1088
04/18	13	Economic	Local	WIND	44	27
04/18	13	SelfSchCut	Local	SOLR	5	15
04/18	14	Economic	Local	SOLR	277	357
04/18	14	Economic	Local	WIND	9	
04/18	14	Economic	System	SOLR	18	148
04/18	14	Economic	System	WIND	9	109
04/18	14	SelfSchCut	Local	SOLR	2	10
04/18	15	Economic	Local	SOLR	302	440
04/18	15	Economic	Local	WIND	1	
04/18	15	Economic	System	SOLR	86	147
04/18	15	Economic	System	WIND	48	98
04/18	15	SelfSchCut	Local	SOLR	2	6

04/18	16	Economic	Local	SOLR	252	399
04/18	16	Economic	Local	WIND	13	102
04/18	16	Economic	System	SOLR	18	
04/18	16	SelfSchCut	Local	SOLR	1	8
04/18	17	Economic	Local	SOLR	175	206
04/18	17	SelfSchCut	Local	SOLR	1	4
04/18	18	Economic	Local	SOLR	110	253
04/18	18	Economic	Local	WIND	8	98
04/18	18	Economic	System	SOLR	8	
04/18	19	Economic	Local	SOLR	12	45

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.