

Wind and Solar Curtailment April 10, 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.

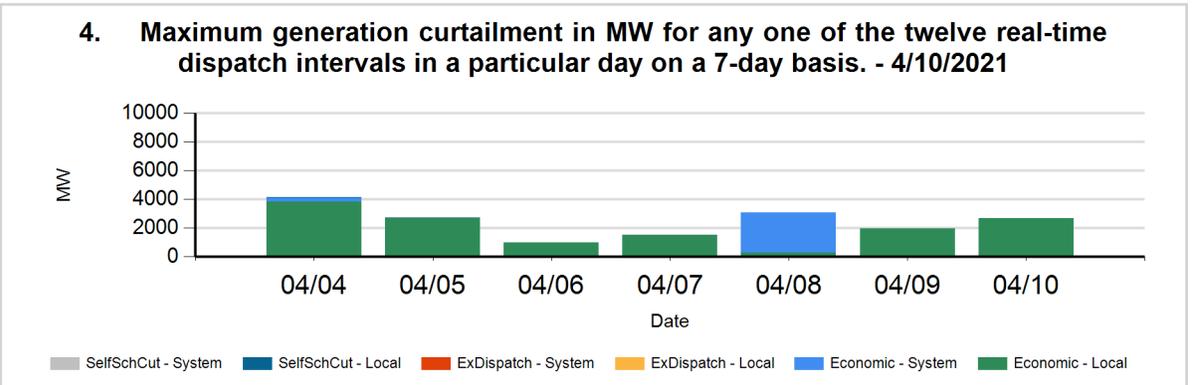
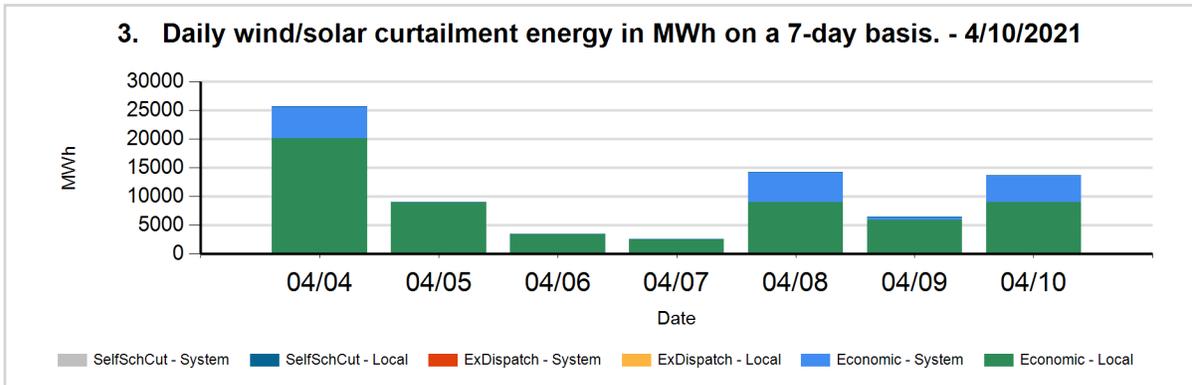
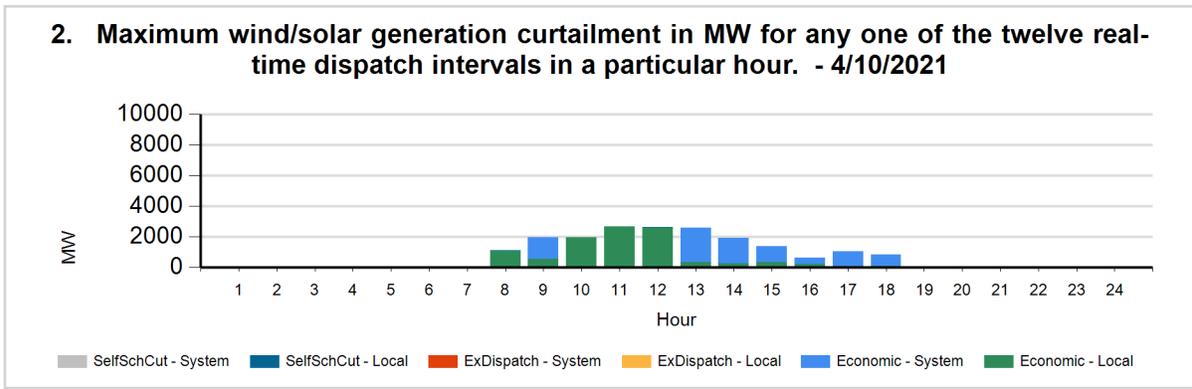
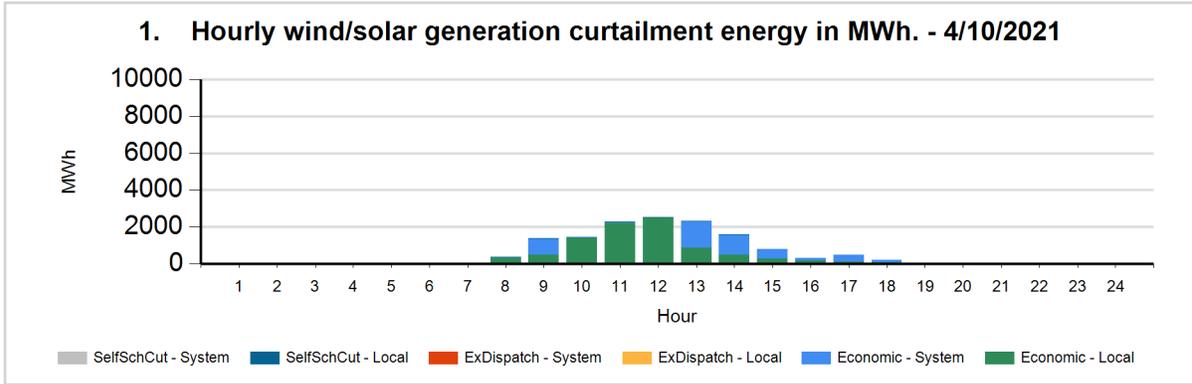
¹Only wind and solar resources can be reported in this manner because these resources have a forecast. Curtailment is defined as the difference between actual production and the forecast when actual production is less than the forecast.

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

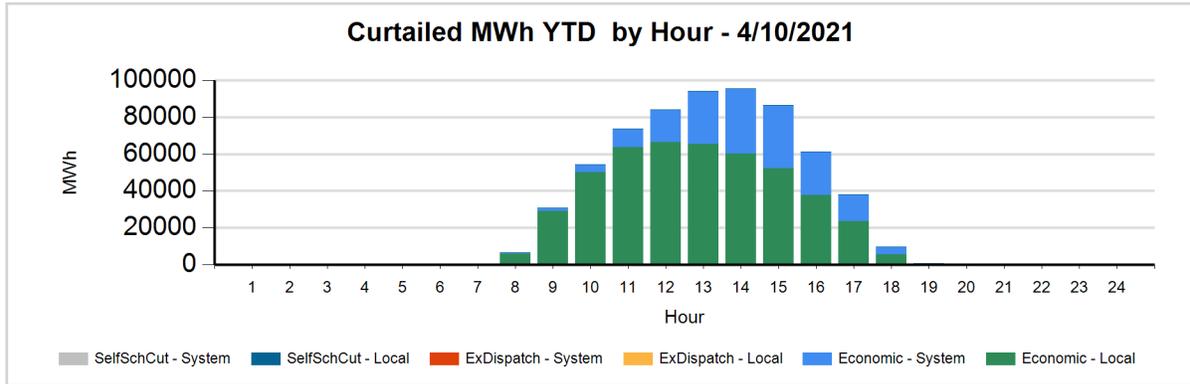
³Congestion occurs when available, least-cost energy cannot be delivered to some loads because transmission facilities do not have sufficient capacity to deliver the energy.

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

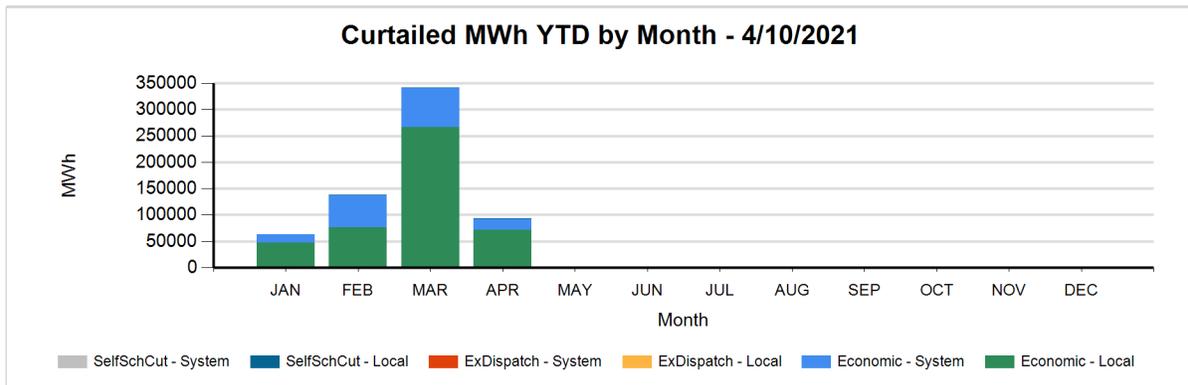
The following charts show the daily and 7-day wind and solar curtailment by category, if any.



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 - 4/10/2021
LocalEconomic	460,029
LocalSelfSchCut	2,012
SystemEconomic	173,477
TOTAL	635,518

Data used to produce hourly chart

DATE	HOUR	CURT TYPE	REASON	FUEL TYPE	CURTAILED MWH	CURTAILED MW
04/10	7	Economic	System	SOLR	1	7
04/10	7	Economic	System	WIND	1	8
04/10	8	Economic	Local	SOLR	295	965
04/10	8	Economic	Local	WIND	76	152
04/10	8	Economic	System	SOLR	5	
04/10	8	Economic	System	WIND	3	1
04/10	9	Economic	Local	SOLR	433	514
04/10	9	Economic	Local	WIND	45	5
04/10	9	Economic	System	SOLR	722	1261
04/10	9	Economic	System	WIND	159	167
04/10	9	SelfSchCut	Local	SOLR	4	
04/10	10	Economic	Local	SOLR	1259	1780
04/10	10	Economic	Local	WIND	185	172
04/10	10	Economic	System	WIND	2	
04/10	11	Economic	Local	SOLR	2049	2448
04/10	11	Economic	Local	WIND	202	203
04/10	11	Economic	System	SOLR	11	
04/10	11	Economic	System	WIND	1	
04/10	11	SelfSchCut	Local	SOLR	1	
04/10	12	Economic	Local	SOLR	2356	2457
04/10	12	Economic	Local	WIND	170	176
04/10	12	SelfSchCut	Local	SOLR	4	10
04/10	13	Economic	Local	SOLR	827	344
04/10	13	Economic	Local	WIND	47	
04/10	13	Economic	System	SOLR	1294	2035
04/10	13	Economic	System	WIND	149	194
04/10	13	SelfSchCut	Local	SOLR	1	
04/10	14	Economic	Local	SOLR	453	256
04/10	14	Economic	Local	WIND	32	
04/10	14	Economic	System	SOLR	931	1448
04/10	14	Economic	System	WIND	171	221

04/10	14	SelfSchCut	Local	SOLR	1	
04/10	15	Economic	Local	SOLR	247	294
04/10	15	Economic	Local	WIND	15	30
04/10	15	Economic	System	SOLR	386	837
04/10	15	Economic	System	WIND	141	204
04/10	16	Economic	Local	SOLR	152	193
04/10	16	Economic	Local	WIND	10	
04/10	16	Economic	System	SOLR	93	239
04/10	16	Economic	System	WIND	48	191
04/10	17	Economic	Local	SOLR	87	94
04/10	17	Economic	System	SOLR	297	732
04/10	17	Economic	System	WIND	102	220
04/10	18	Economic	Local	SOLR	72	69
04/10	18	Economic	System	SOLR	91	543
04/10	18	Economic	System	WIND	55	236
04/10	19	Economic	Local	SOLR	11	33

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.