

Wind and Solar Curtailment May 07, 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.

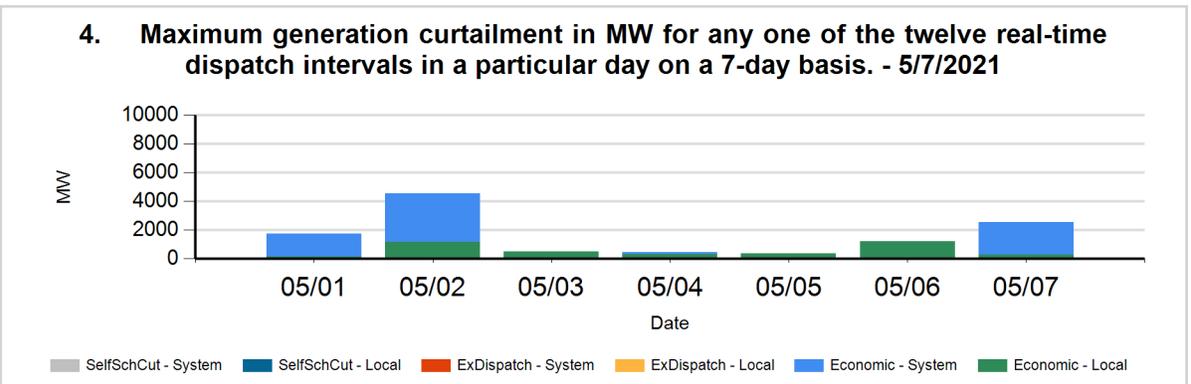
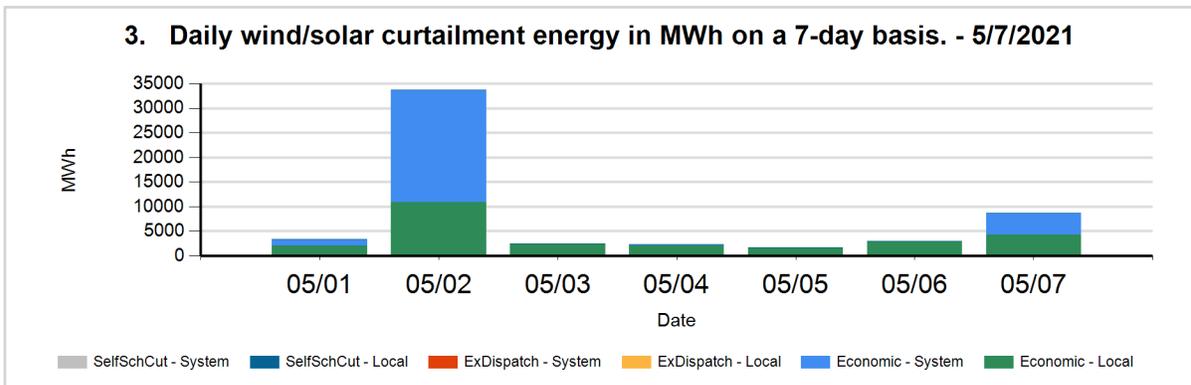
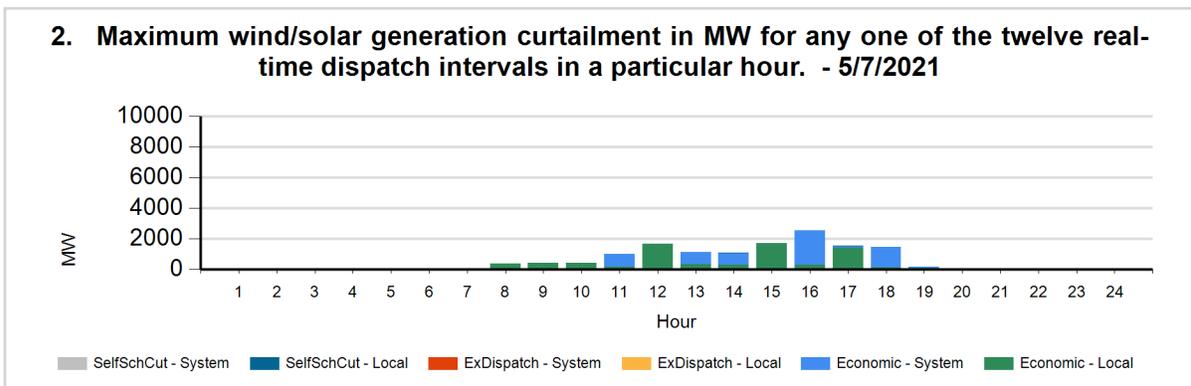
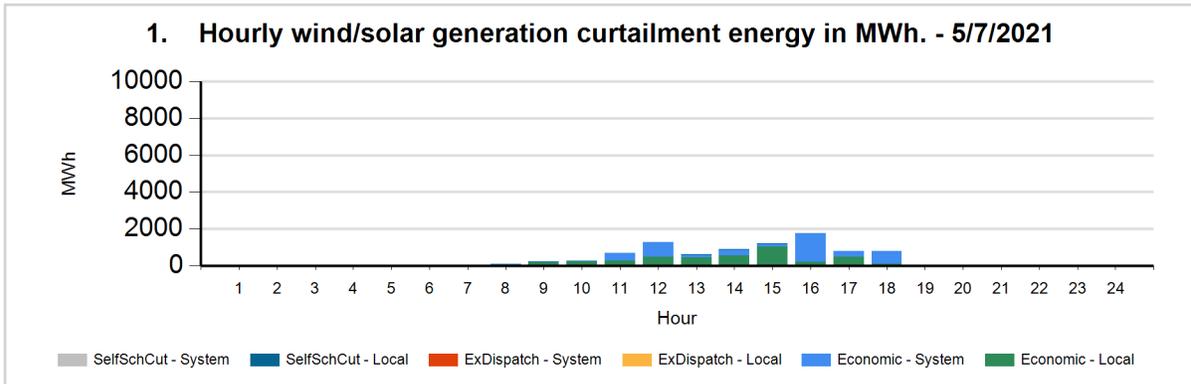
¹Only wind and solar resources can be reported in this manner because these resources have a forecast. Curtailment is defined as the difference between actual production and the forecast when actual production is less than the forecast.

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

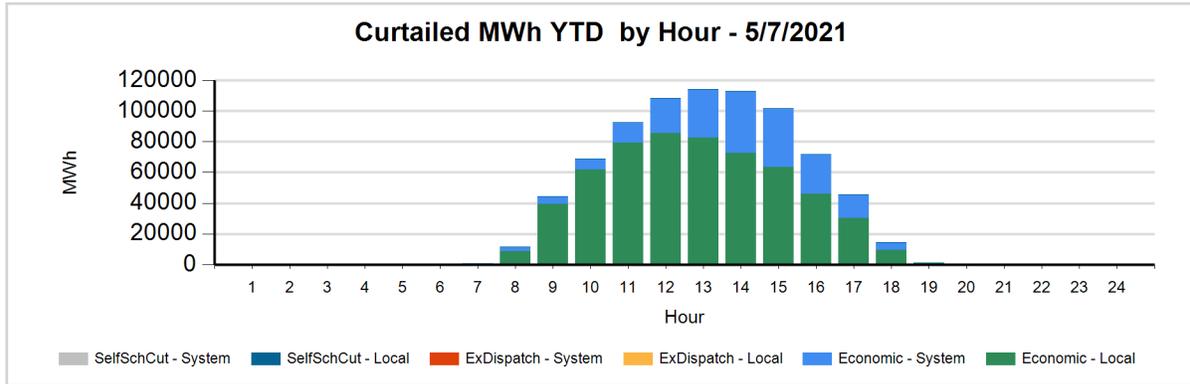
³Congestion occurs when available, least-cost energy cannot be delivered to some loads because transmission facilities do not have sufficient capacity to deliver the energy.

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

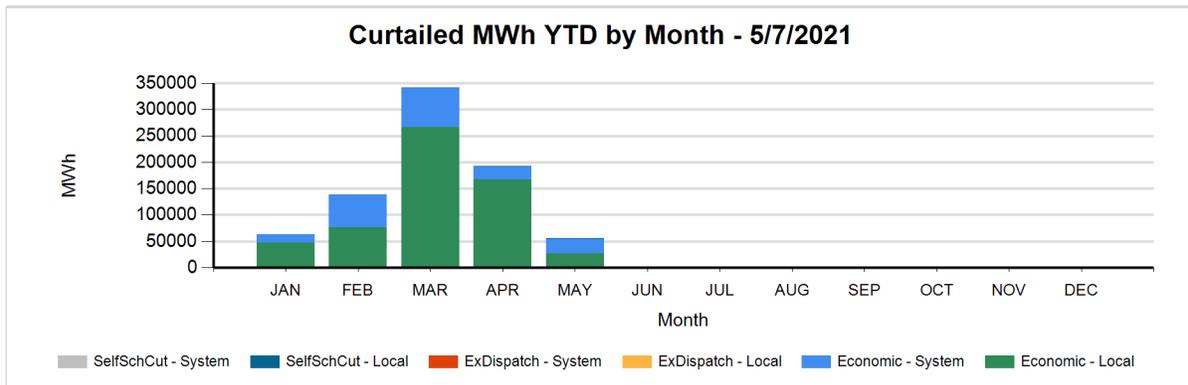
The following charts show the daily and 7-day wind and solar curtailment by category, if any.



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 - 5/7/2021
LocalEconomic	582,217
LocalSelfSchCut	2,584
SystemEconomic	204,946
TOTAL	789,747

Data used to produce hourly chart

DATE	HOUR	CURT TYPE	REASON	FUEL TYPE	CURTAILED MWH	CURTAILED MW
05/07	7	Economic	Local	SOLR	3	26
05/07	7	Economic	System	SOLR	2	
05/07	8	Economic	Local	SOLR	113	365
05/07	8	Economic	System	SOLR	1	
05/07	9	Economic	Local	SOLR	246	397
05/07	9	Economic	System	SOLR	1	
05/07	10	Economic	Local	SOLR	264	418
05/07	10	Economic	System	SOLR	17	
05/07	11	Economic	Local	SOLR	288	160
05/07	11	Economic	System	SOLR	376	843
05/07	11	Economic	System	WIND	17	12
05/07	11	SelfSchCut	Local	SOLR	0	
05/07	12	Economic	Local	SOLR	467	1624
05/07	12	Economic	Local	WIND	9	37
05/07	12	Economic	System	SOLR	766	
05/07	12	Economic	System	WIND	27	
05/07	13	Economic	Local	SOLR	433	326
05/07	13	Economic	System	SOLR	170	743
05/07	13	Economic	System	WIND	10	40
05/07	13	SelfSchCut	Local	SOLR	4	
05/07	14	Economic	Local	SOLR	561	283
05/07	14	Economic	Local	WIND	3	
05/07	14	Economic	System	SOLR	307	759
05/07	14	Economic	System	WIND	6	30
05/07	14	SelfSchCut	Local	SOLR	4	9
05/07	15	Economic	Local	SOLR	1034	1654
05/07	15	Economic	Local	WIND	7	34
05/07	15	Economic	System	SOLR	162	
05/07	15	Economic	System	WIND	6	
05/07	15	SelfSchCut	Local	SOLR	1	
05/07	16	Economic	Local	SOLR	202	267

05/07	16	Economic	System	SOLR	1543	2234
05/07	16	Economic	System	WIND	27	33
05/07	17	Economic	Local	SOLR	487	1385
05/07	17	Economic	Local	WIND	3	34
05/07	17	Economic	System	SOLR	301	121
05/07	17	Economic	System	WIND	19	
05/07	17	SelfSchCut	Local	SOLR	0	1
05/07	18	Economic	Local	SOLR	105	104
05/07	18	Economic	Local	WIND	1	
05/07	18	Economic	System	SOLR	664	1325
05/07	18	Economic	System	WIND	25	37
05/07	19	Economic	Local	SOLR	30	60
05/07	19	Economic	System	SOLR	14	92
05/07	19	Economic	System	WIND	1	7
05/07	23	Economic	System	WIND	1	12

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.