

Wind and Solar Curtailment May 08, 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.

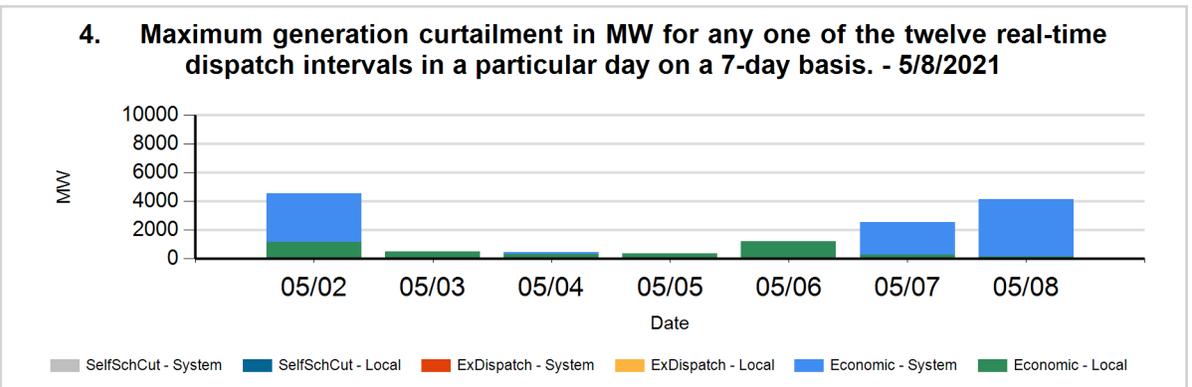
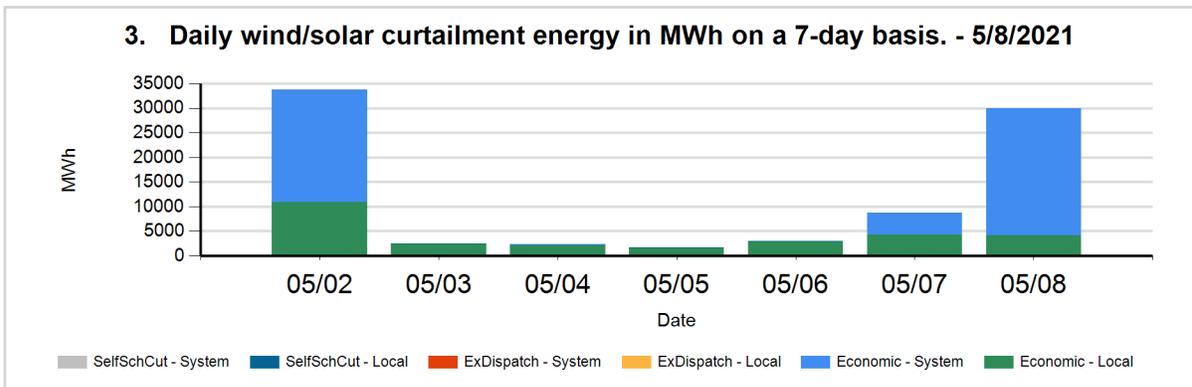
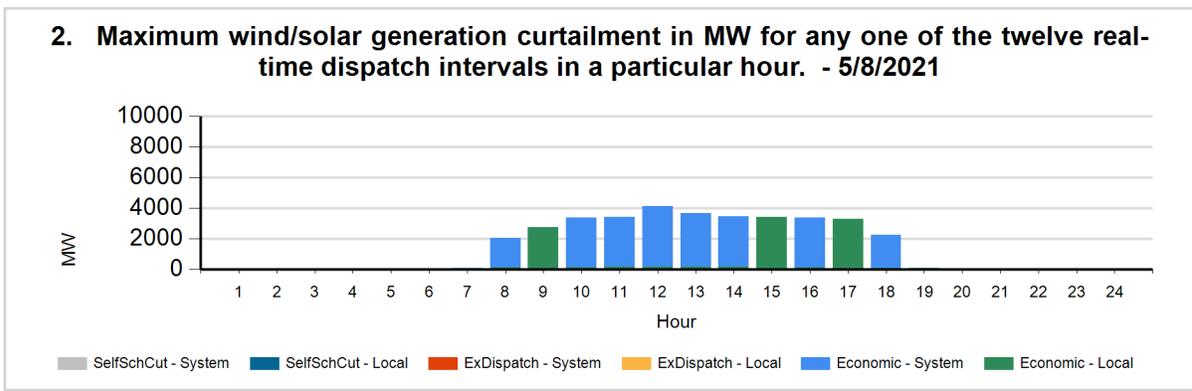
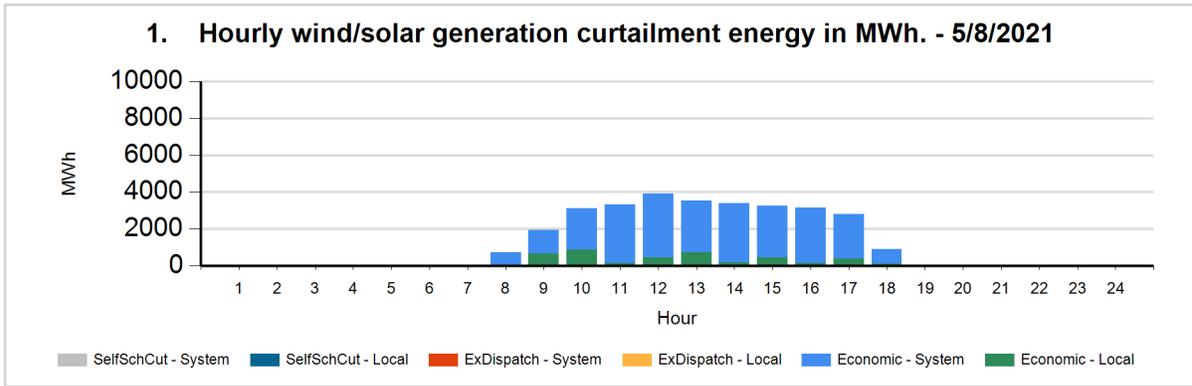
¹Only wind and solar resources can be reported in this manner because these resources have a forecast. Curtailment is defined as the difference between actual production and the forecast when actual production is less than the forecast.

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

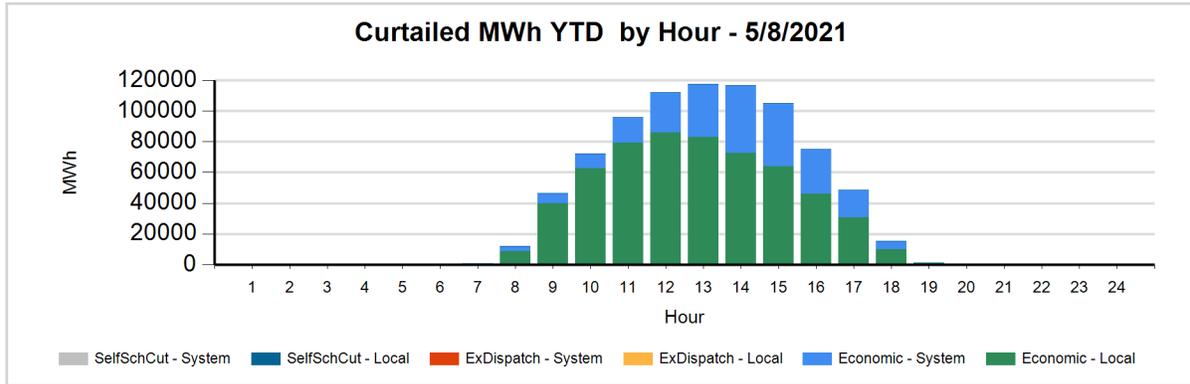
³Congestion occurs when available, least-cost energy cannot be delivered to some loads because transmission facilities do not have sufficient capacity to deliver the energy.

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

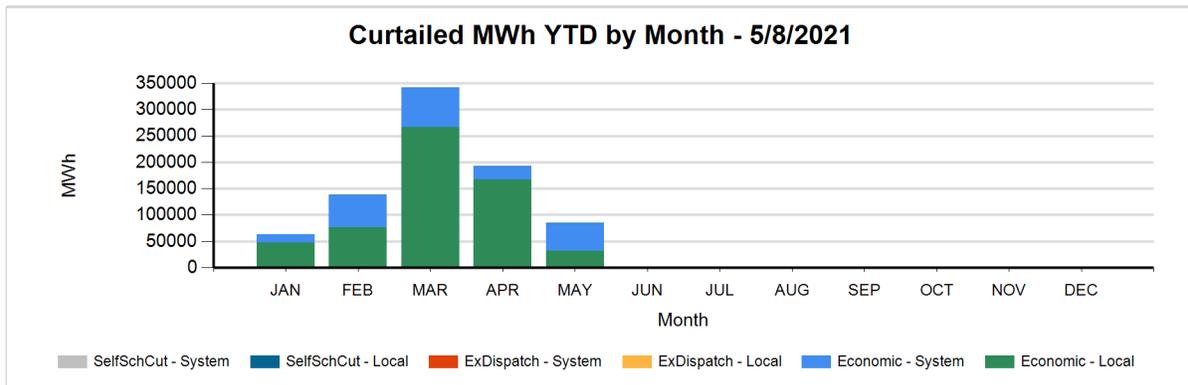
The following charts show the daily and 7-day wind and solar curtailment by category, if any.



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 - 5/8/2021
LocalEconomic	586,314
LocalSelfSchCut	2,584
SystemEconomic	230,848
TOTAL	819,746

Data used to produce hourly chart

DATE	HOUR	CURT TYPE	REASON	FUEL TYPE	CURTAILED MWH	CURTAILED MW
05/08	4	Economic	Local	WIND	1	17
05/08	7	Economic	Local	SOLR	0	
05/08	7	Economic	System	SOLR	6	39
05/08	7	Economic	System	WIND	3	22
05/08	8	Economic	Local	SOLR	47	101
05/08	8	Economic	System	SOLR	628	1856
05/08	8	Economic	System	WIND	34	78
05/08	9	Economic	Local	SOLR	623	2667
05/08	9	Economic	Local	WIND	19	75
05/08	9	Economic	System	SOLR	1234	
05/08	9	Economic	System	WIND	62	
05/08	10	Economic	Local	SOLR	842	125
05/08	10	Economic	Local	WIND	20	
05/08	10	Economic	System	SOLR	2194	3192
05/08	10	Economic	System	WIND	56	71
05/08	11	Economic	Local	SOLR	138	150
05/08	11	Economic	System	SOLR	3119	3190
05/08	11	Economic	System	WIND	51	58
05/08	12	Economic	Local	SOLR	430	143
05/08	12	Economic	Local	WIND	22	
05/08	12	Economic	System	SOLR	3254	3735
05/08	12	Economic	System	WIND	189	245
05/08	13	Economic	Local	SOLR	708	181
05/08	13	Economic	Local	WIND	10	
05/08	13	Economic	System	SOLR	2718	3307
05/08	13	Economic	System	WIND	76	164
05/08	14	Economic	Local	SOLR	158	165
05/08	14	Economic	System	SOLR	3199	3245
05/08	14	Economic	System	WIND	37	37
05/08	15	Economic	Local	SOLR	435	3381
05/08	15	Economic	Local	WIND	3	39

05/08	15	Economic	System	SOLR	2782	
05/08	15	Economic	System	WIND	39	
05/08	16	Economic	Local	SOLR	136	128
05/08	16	Economic	System	SOLR	2969	3213
05/08	16	Economic	System	WIND	55	53
05/08	17	Economic	Local	SOLR	382	3235
05/08	17	Economic	Local	WIND	4	49
05/08	17	Economic	System	SOLR	2349	
05/08	17	Economic	System	WIND	49	
05/08	18	Economic	Local	SOLR	90	94
05/08	18	Economic	System	SOLR	776	2101
05/08	18	Economic	System	WIND	22	45
05/08	19	Economic	Local	SOLR	26	65
05/08	20	Economic	Local	SOLR	1	7

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.