

Wind and Solar Curtailment June 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.

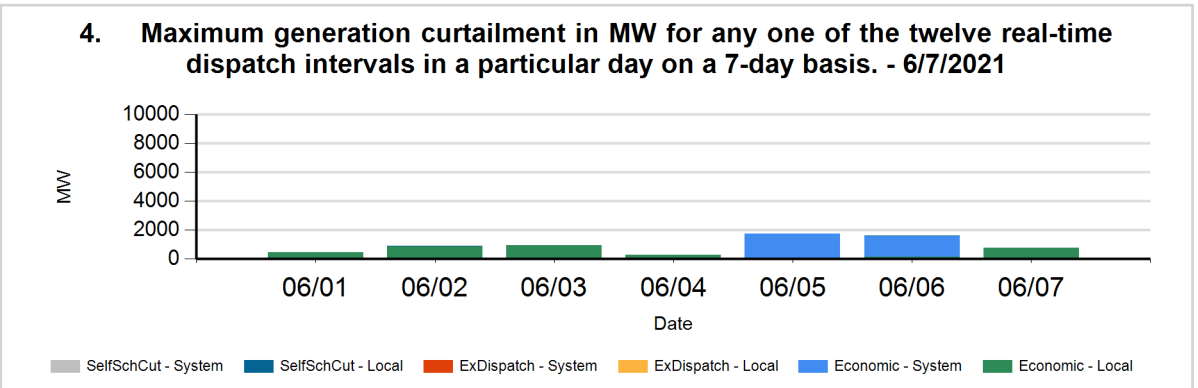
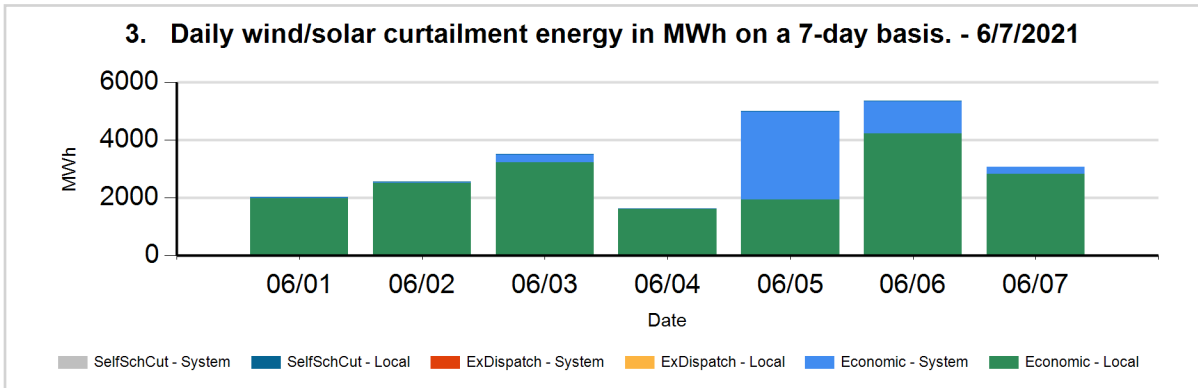
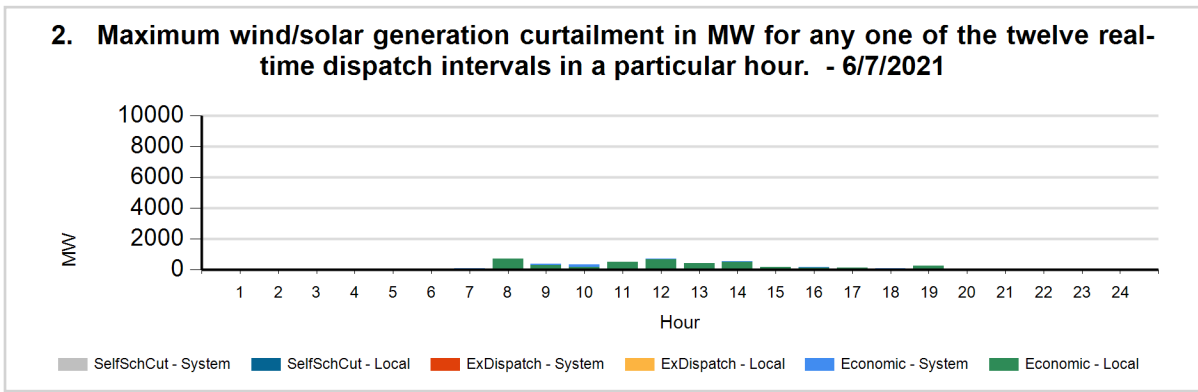
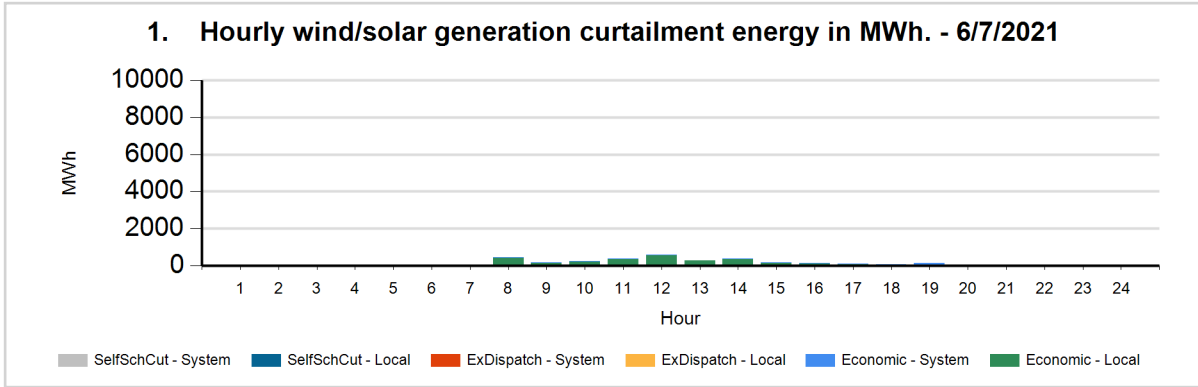
¹Only wind and solar resources can be reported in this manner because these resources have a forecast. Curtailment is defined as the difference between actual production and the forecast when actual production is less than the forecast.

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

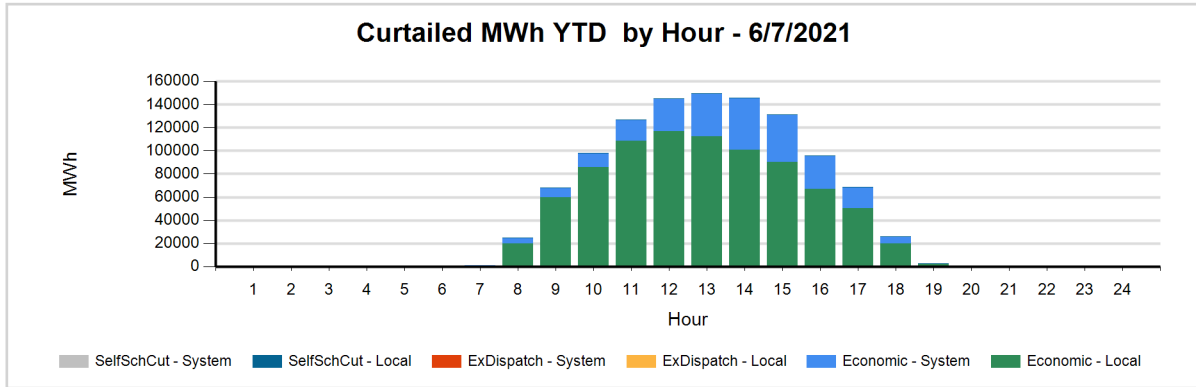
³Congestion occurs when available, least-cost energy cannot be delivered to some loads because transmission facilities do not have sufficient capacity to deliver the energy.

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

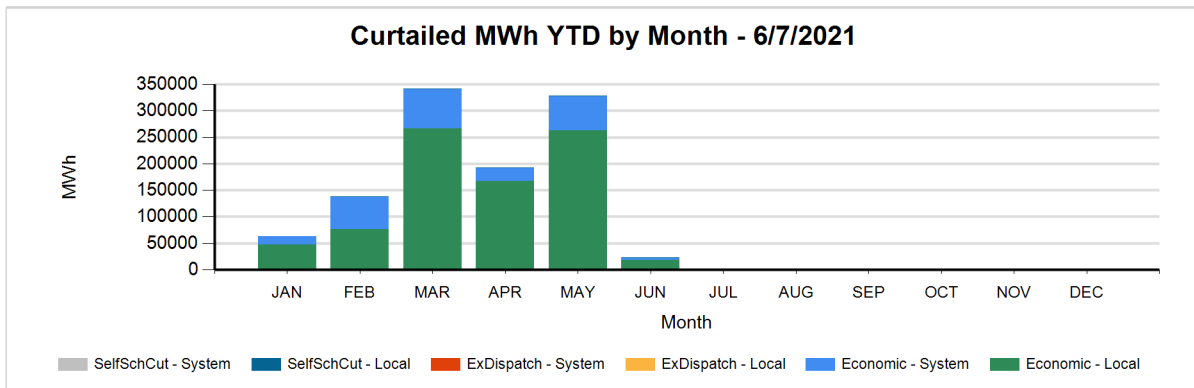
The following charts show the daily and 7-day wind and solar curtailment by category, if any.



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 - 6/7/2021
LocalEconomic	836,519
LocalSelfSchCut	2,993
SystemEconomic	245,910
TOTAL	1,085,423

Data used to produce hourly chart

DATE	HOUR	CURT TYPE	REASON	FUEL TYPE	CURTAILED MWH	CURTAILED MW
06/07	7	Economic	Local	SOLR	18	28
06/07	7	Economic	System	SOLR	13	38
06/07	8	Economic	Local	SOLR	355	663
06/07	8	Economic	Local	WIND	79	61
06/07	8	Economic	System	SOLR	3	
06/07	9	Economic	Local	SOLR	128	263
06/07	9	Economic	Local	WIND	8	14
06/07	9	Economic	System	SOLR	6	
06/07	9	Economic	System	WIND	37	83
06/07	10	Economic	Local	SOLR	182	143
06/07	10	Economic	Local	WIND	15	
06/07	10	Economic	System	SOLR	11	101
06/07	10	Economic	System	WIND	36	102
06/07	11	Economic	Local	SOLR	344	487
06/07	11	Economic	Local	WIND	34	28
06/07	11	Economic	System	SOLR	0	
06/07	11	Economic	System	WIND	9	
06/07	12	Economic	Local	SOLR	508	589
06/07	12	Economic	Local	WIND	55	93
06/07	12	Economic	System	SOLR	4	19
06/07	12	Economic	System	WIND	4	
06/07	13	Economic	Local	SOLR	236	369
06/07	13	Economic	Local	WIND	28	38
06/07	13	Economic	System	WIND	0	
06/07	14	Economic	Local	SOLR	375	542
06/07	14	Economic	Local	WIND	17	
06/07	14	Economic	System	SOLR	2	3
06/07	15	Economic	Local	SOLR	152	183
06/07	15	Economic	System	SOLR	2	
06/07	16	Economic	Local	SOLR	124	139
06/07	16	Economic	System	SOLR	3	4

06/07	17	Economic	Local	SOLR	86	116
06/07	17	Economic	System	SOLR	3	
06/07	18	Economic	Local	SOLR	53	77
06/07	18	Economic	System	SOLR	3	4
06/07	19	Economic	Local	SOLR	18	116
06/07	19	Economic	Local	WIND	12	147
06/07	19	Economic	System	SOLR	32	
06/07	19	Economic	System	WIND	71	

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.