

Wind and Solar Curtailment June 11, 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.

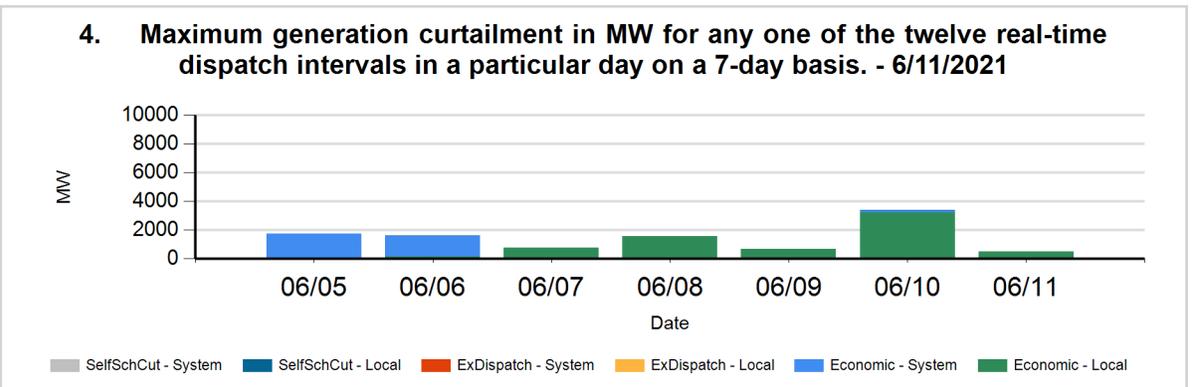
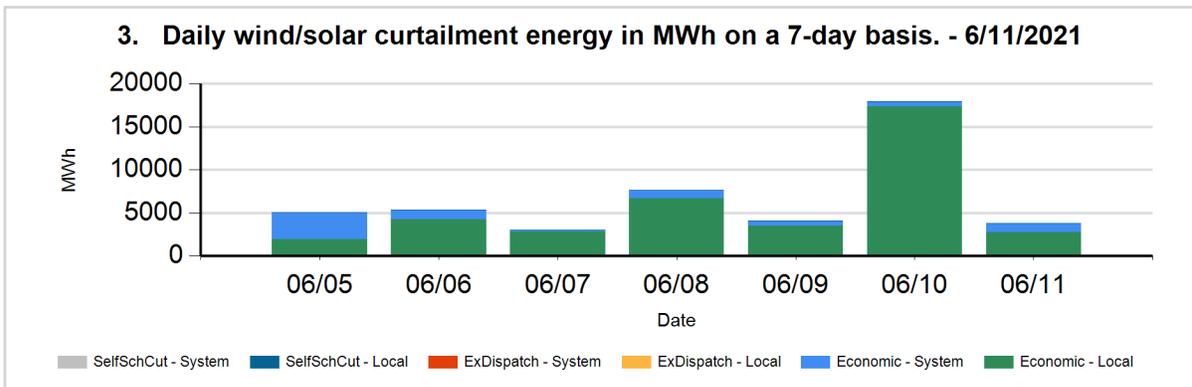
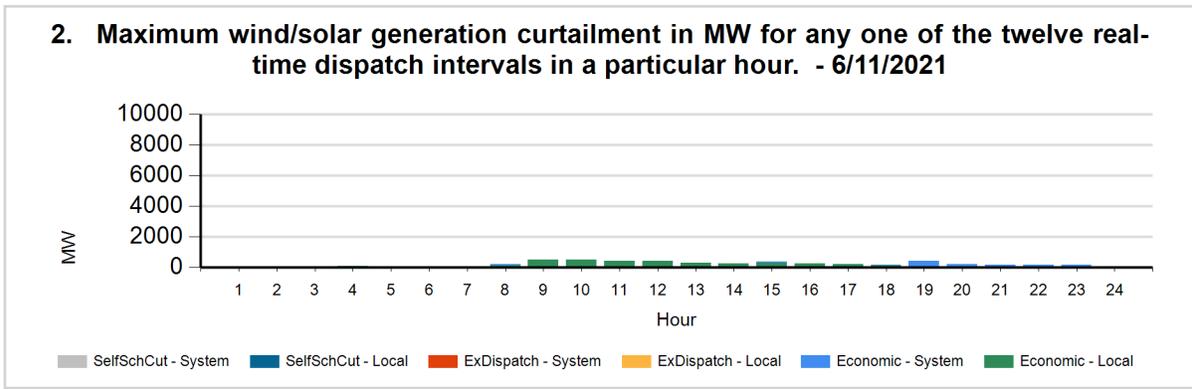
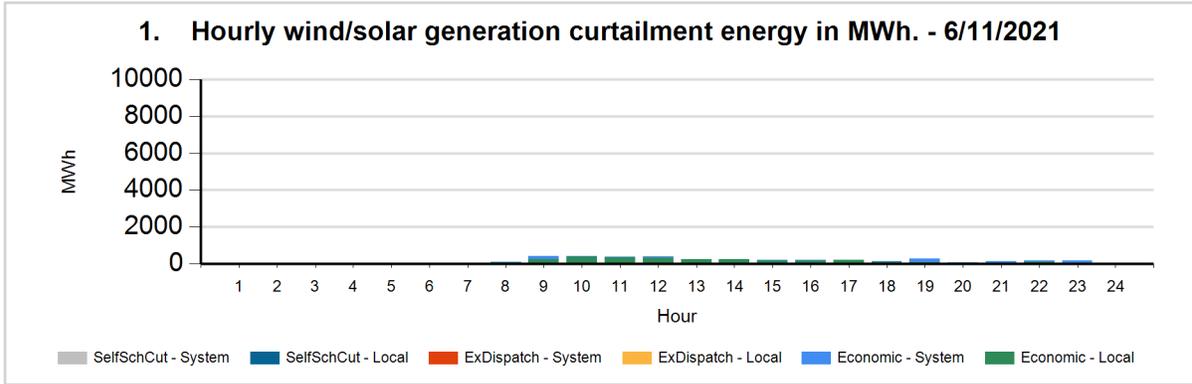
²The Renewables Watch report provides daily actual renewable production within the ISO grid. It is available at: <http://www.caiso.com/green/renewableswatch.html>.

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.

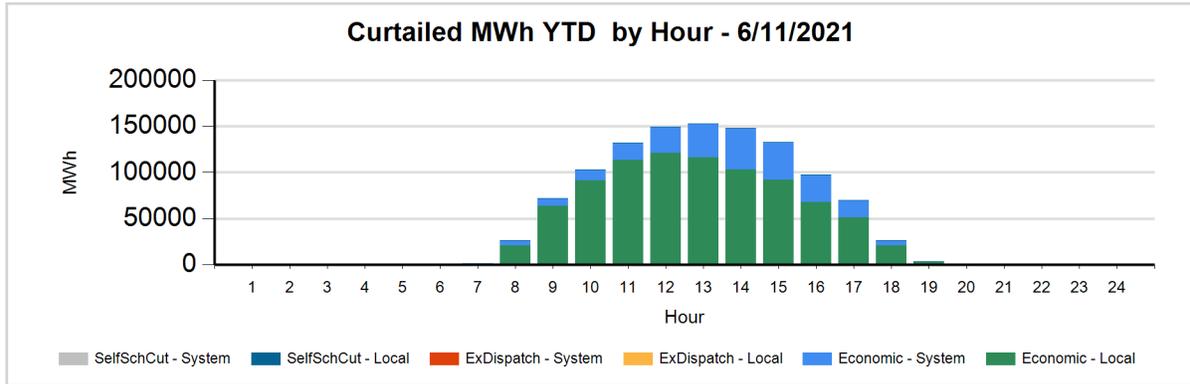
⁴For more information on oversupply conditions, please see:

https://www.caiso.com/Documents/FlexibleResourcesHelpRenewables_FastFacts.pdf

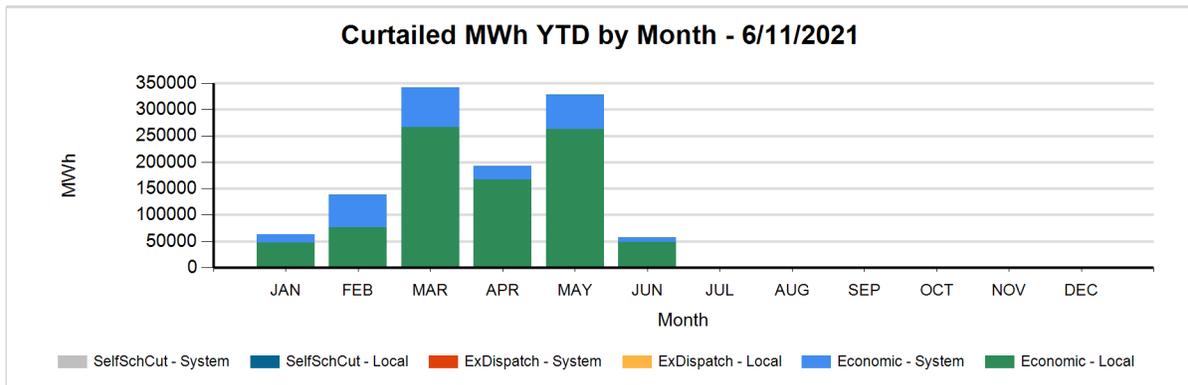
The following charts show the daily and 7-day wind and solar curtailment by category, if any.



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 - 6/11/2021
LocalEconomic	866,781
LocalSelfSchCut	3,015
SystemEconomic	249,051
TOTAL	1,118,846

Data used to produce hourly chart

DATE	HOUR	CURT TYPE	REASON	FUEL TYPE	CURTAILED MWH	CURTAILED MW
06/11	4	Economic	Local	WIND	5	66
06/11	7	Economic	Local	SOLR	26	53
06/11	8	Economic	Local	SOLR	89	113
06/11	8	Economic	System	SOLR	19	98
06/11	9	Economic	Local	SOLR	215	421
06/11	9	Economic	Local	WIND	16	60
06/11	9	Economic	System	SOLR	141	
06/11	9	Economic	System	WIND	40	
06/11	10	Economic	Local	SOLR	381	439
06/11	10	Economic	Local	WIND	20	49
06/11	10	Economic	System	SOLR	17	
06/11	10	Economic	System	WIND	1	
06/11	11	Economic	Local	SOLR	363	389
06/11	11	Economic	Local	WIND	9	28
06/11	11	Economic	System	SOLR	13	
06/11	11	Economic	System	WIND	2	
06/11	12	Economic	Local	SOLR	293	366
06/11	12	Economic	Local	WIND	16	28
06/11	12	Economic	System	SOLR	61	
06/11	12	Economic	System	WIND	7	
06/11	12	SelfSchCut	Local	SOLR	1	
06/11	13	Economic	Local	SOLR	240	265
06/11	13	Economic	Local	WIND	2	6
06/11	14	Economic	Local	SOLR	223	232
06/11	14	Economic	Local	WIND	1	8
06/11	15	Economic	Local	SOLR	194	271
06/11	15	Economic	Local	WIND	7	16
06/11	15	Economic	System	SOLR	19	68
06/11	16	Economic	Local	SOLR	177	226
06/11	16	Economic	Local	WIND	1	9
06/11	16	Economic	System	SOLR	16	

06/11	17	Economic	Local	SOLR	193	201
06/11	18	Economic	Local	SOLR	100	108
06/11	18	Economic	System	SOLR	50	62
06/11	19	Economic	Local	SOLR	56	55
06/11	19	Economic	Local	WIND	11	
06/11	19	Economic	System	SOLR	66	179
06/11	19	Economic	System	WIND	127	165
06/11	20	Economic	Local	SOLR	2	6
06/11	20	Economic	Local	WIND	3	
06/11	20	Economic	System	SOLR	7	26
06/11	20	Economic	System	WIND	52	165
06/11	21	Economic	System	WIND	148	172
06/11	22	Economic	Local	WIND	93	
06/11	22	Economic	System	WIND	69	174
06/11	23	Economic	Local	WIND	28	
06/11	23	Economic	System	WIND	133	175

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.