

Wind and Solar Curtailment June 17, 2023

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.

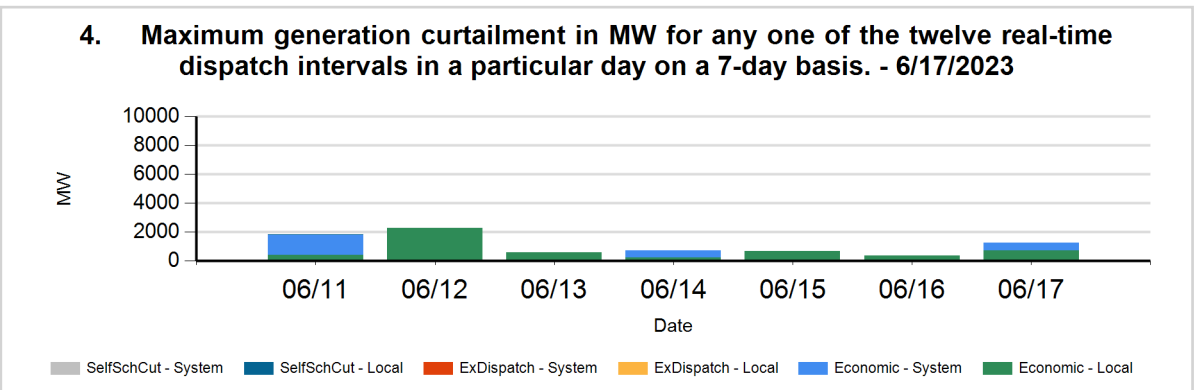
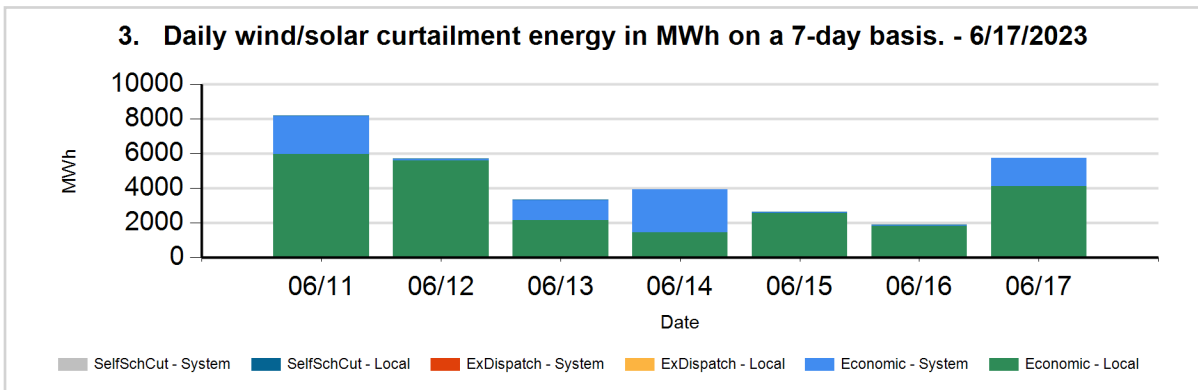
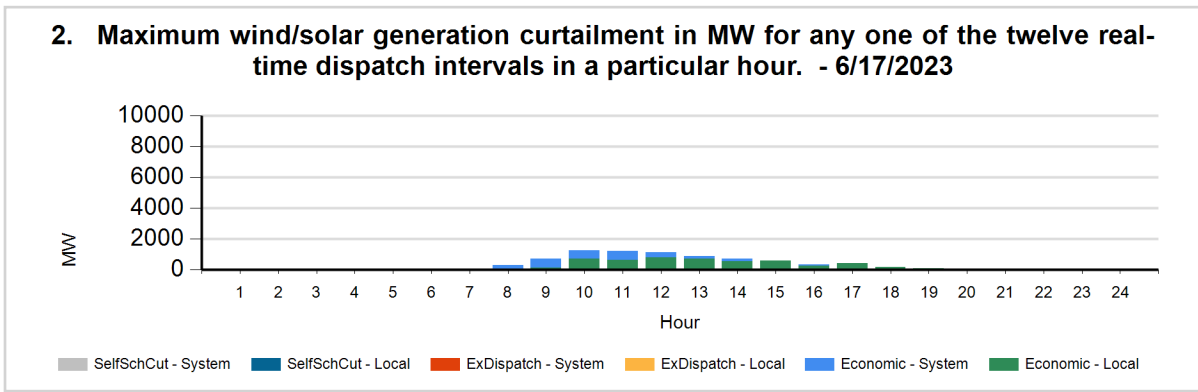
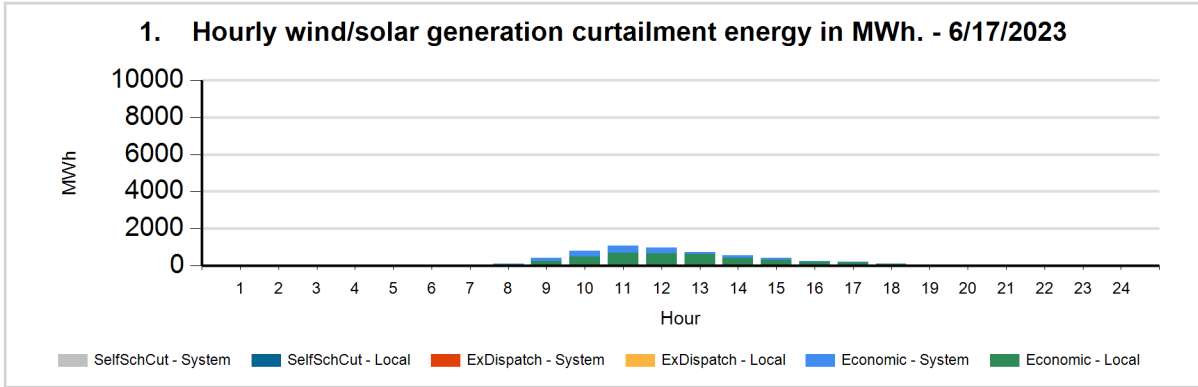
²The Renewables Watch report provides daily actual renewable production within the ISO grid. It is available at: <http://www.caiso.com/green/renewableswatch.html>.

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.

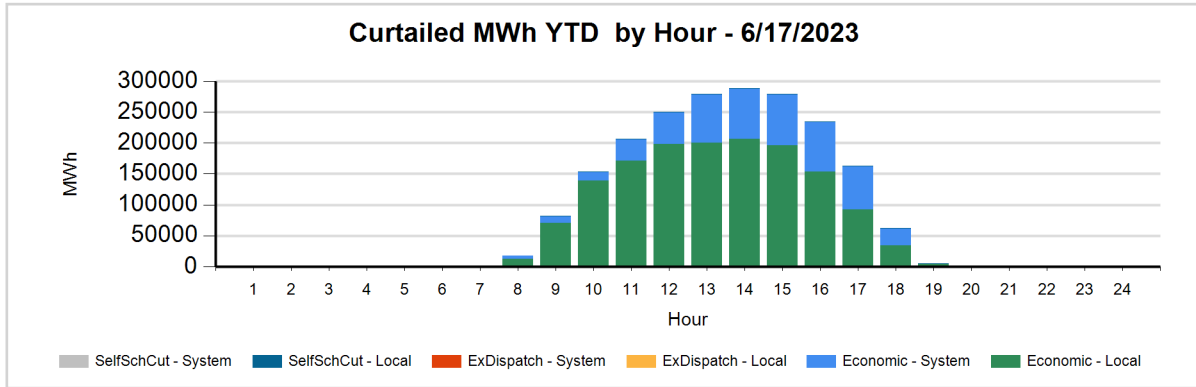
⁴For more information on oversupply conditions, please see:

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

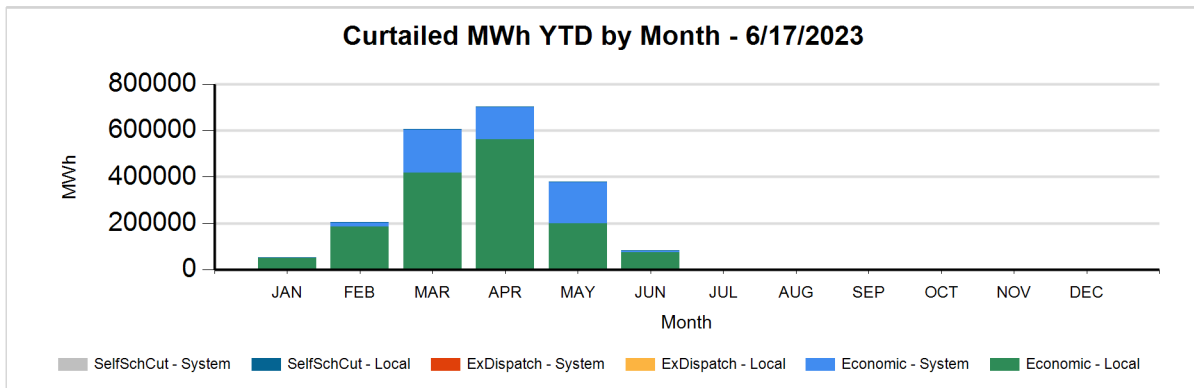
The following charts show the daily and 7-day wind and solar curtailment by category, if any.



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 - 6/17/2023
LocalEconomic	1,483,970
LocalSelfSchCut	779
SystemEconomic	544,313
TOTAL	2,029,062

Data used to produce hourly chart

DATE	HOUR	CURT TYPE	REASON	FUEL TYPE	CURTAILED MWH	CURTAILED MW
06/17	1	Economic	Local	WIND	11	12
06/17	2	Economic	Local	WIND	12	12
06/17	3	Economic	Local	WIND	12	12
06/17	4	Economic	Local	WIND	11	11
06/17	5	Economic	Local	WIND	11	11
06/17	6	Economic	Local	WIND	6	11
06/17	6	Economic	System	WIND	1	
06/17	7	Economic	Local	SOLR	1	
06/17	7	Economic	Local	WIND	8	10
06/17	7	Economic	System	SOLR	4	20
06/17	8	Economic	Local	SOLR	44	47
06/17	8	Economic	Local	WIND	9	
06/17	8	Economic	System	SOLR	48	173
06/17	8	Economic	System	WIND	6	50
06/17	9	Economic	Local	SOLR	239	101
06/17	9	Economic	Local	WIND	1	
06/17	9	Economic	System	SOLR	139	513
06/17	9	Economic	System	WIND	36	91
06/17	10	Economic	Local	SOLR	462	709
06/17	10	Economic	Local	WIND	7	
06/17	10	Economic	System	SOLR	234	475
06/17	10	Economic	System	WIND	75	56
06/17	11	Economic	Local	SOLR	699	606
06/17	11	Economic	System	SOLR	297	539
06/17	11	Economic	System	WIND	56	62
06/17	12	Economic	Local	SOLR	669	779
06/17	12	Economic	System	SOLR	257	257
06/17	12	Economic	System	WIND	49	68
06/17	13	Economic	Local	SOLR	604	710
06/17	13	Economic	Local	WIND	5	
06/17	13	Economic	System	SOLR	90	108

06/17	13	Economic	System	WIND	28	33
06/17	14	Economic	Local	SOLR	393	551
06/17	14	Economic	Local	WIND	1	
06/17	14	Economic	System	SOLR	139	108
06/17	14	Economic	System	WIND	17	29
06/17	15	Economic	Local	SOLR	324	590
06/17	15	Economic	System	SOLR	91	
06/17	15	Economic	System	WIND	4	
06/17	16	Economic	Local	SOLR	207	251
06/17	16	Economic	System	SOLR	39	78
06/17	16	Economic	System	WIND	1	13
06/17	17	Economic	Local	SOLR	186	394
06/17	17	Economic	Local	WIND	5	
06/17	17	Economic	System	SOLR	8	
06/17	17	Economic	System	WIND	1	
06/17	18	Economic	Local	SOLR	99	162
06/17	18	Economic	Local	WIND	10	10
06/17	19	Economic	Local	SOLR	26	53
06/17	19	Economic	Local	WIND	13	12
06/17	20	Economic	Local	SOLR	0	5
06/17	20	Economic	Local	WIND	13	12
06/17	21	Economic	Local	SOLR	0	
06/17	21	Economic	Local	WIND	12	13
06/17	21	Economic	System	SOLR	0	3
06/17	22	Economic	Local	WIND	4	9
06/17	23	Economic	Local	WIND	7	9
06/17	24	Economic	Local	WIND	8	9

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.

