

Wind and Solar Curtailment June 14, 2024

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.

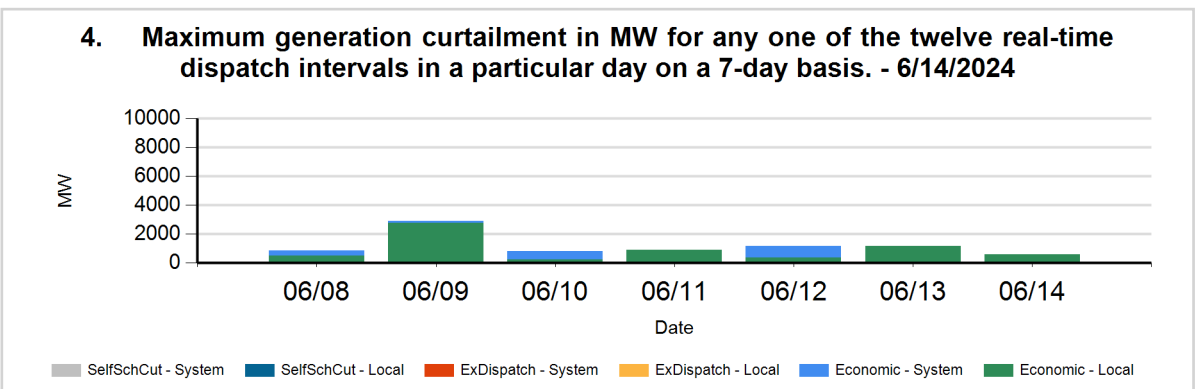
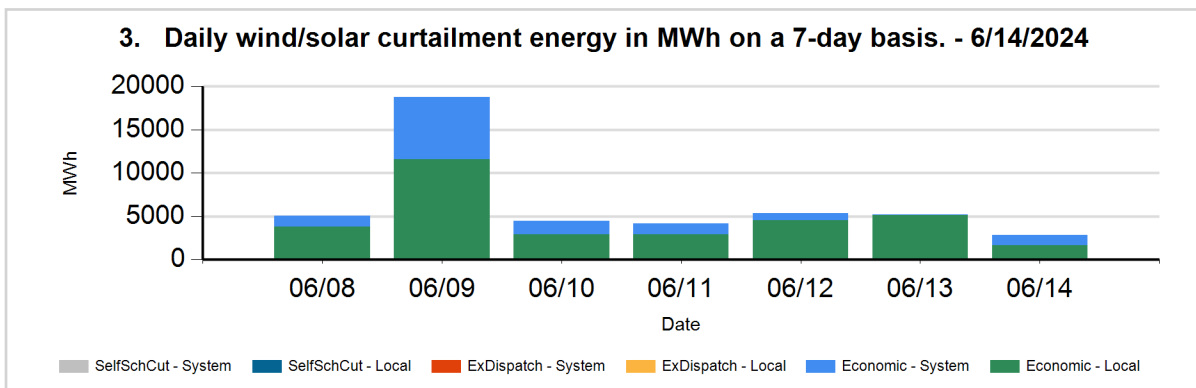
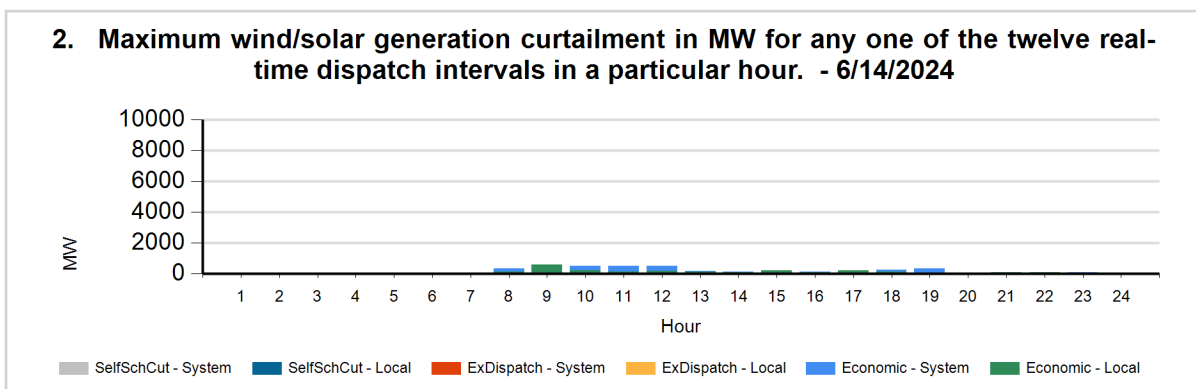
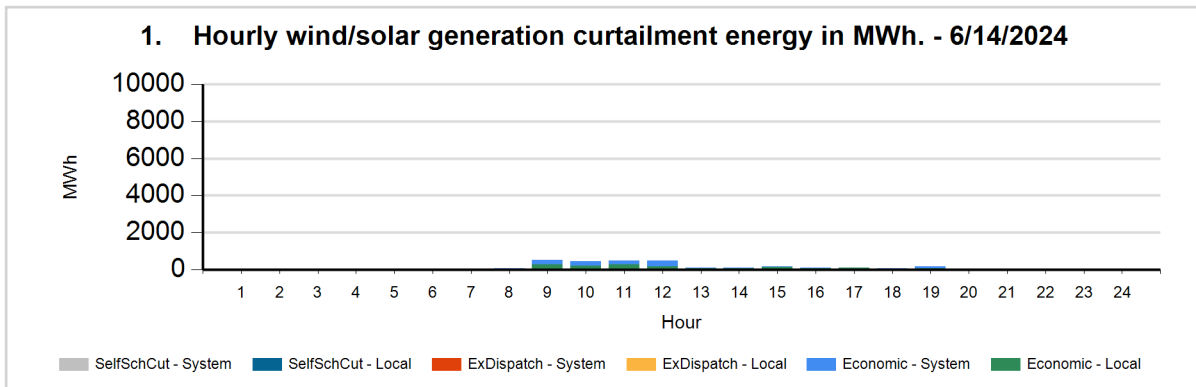
¹Only wind and solar resources can be reported in this manner because these resources have a forecast. Curtailment is defined as the difference between actual production and the forecast when actual production is less than the forecast.

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

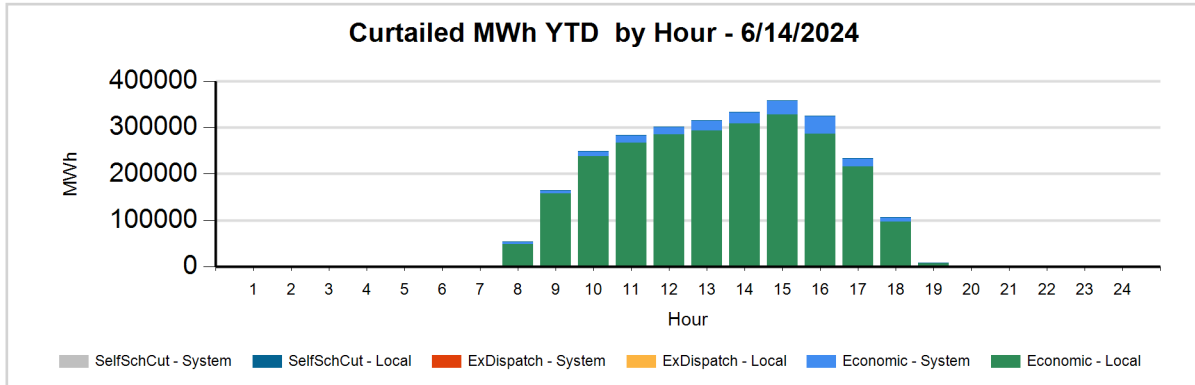
³Congestion occurs when available, least-cost energy cannot be delivered to some loads because transmission facilities do not have sufficient capacity to deliver the energy.

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

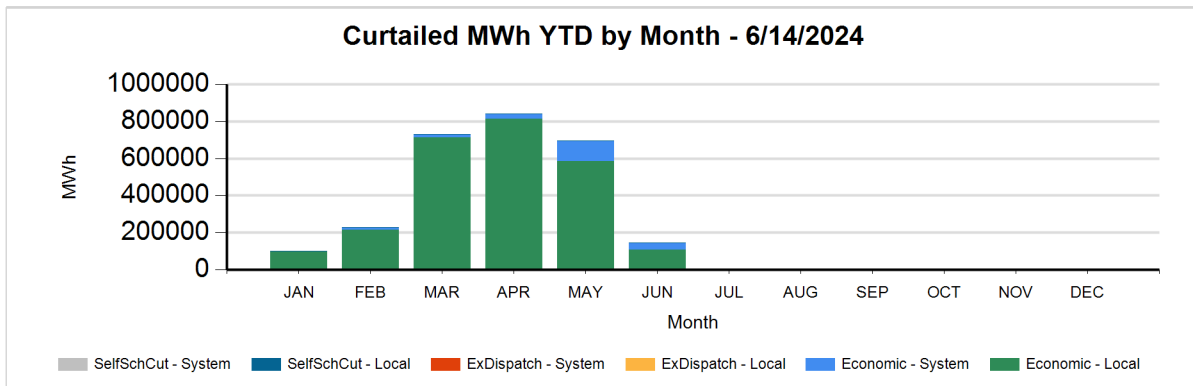
The following charts show the daily and 7-day wind and solar curtailment by category, if any.



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 - 6/14/2024
LocalEconomic	2,534,508
LocalSelfSchCut	1,572
SystemEconomic	202,946
TOTAL	2,739,025

Data used to produce hourly chart

DATE	HOUR	CURT TYPE	REASON	FUEL TYPE	CURTAILED MWH	CURTAILED MW
06/14	7	Economic	System	SOLR	1	8
06/14	8	Economic	Local	SOLR	42	106
06/14	8	Economic	System	SOLR	29	233
06/14	8	Economic	System	WIND	0	4
06/14	9	Economic	Local	SOLR	217	416
06/14	9	Economic	Local	WIND	54	162
06/14	9	Economic	System	SOLR	134	
06/14	9	Economic	System	WIND	105	
06/14	10	Economic	Local	SOLR	196	205
06/14	10	Economic	Local	WIND	24	
06/14	10	Economic	System	SOLR	117	172
06/14	10	Economic	System	WIND	117	125
06/14	11	Economic	Local	SOLR	227	115
06/14	11	Economic	Local	WIND	43	
06/14	11	Economic	System	SOLR	148	295
06/14	11	Economic	System	WIND	57	100
06/14	12	Economic	Local	SOLR	166	155
06/14	12	Economic	Local	WIND	14	
06/14	12	Economic	System	SOLR	225	254
06/14	12	Economic	System	WIND	71	84
06/14	13	Economic	Local	SOLR	104	100
06/14	13	Economic	System	SOLR	1	11
06/14	13	Economic	System	WIND	4	43
06/14	14	Economic	Local	SOLR	95	96
06/14	14	Economic	System	SOLR	3	18
06/14	15	Economic	Local	SOLR	87	109
06/14	15	Economic	Local	WIND	46	109
06/14	15	Economic	System	SOLR	7	
06/14	15	Economic	System	WIND	28	
06/14	16	Economic	Local	SOLR	82	77
06/14	16	Economic	System	SOLR	7	43

06/14	17	Economic	Local	SOLR	86	91
06/14	17	Economic	Local	WIND	10	119
06/14	18	Economic	Local	SOLR	49	106
06/14	18	Economic	Local	WIND	1	
06/14	18	Economic	System	SOLR	0	
06/14	18	Economic	System	WIND	21	124
06/14	19	Economic	Local	SOLR	28	21
06/14	19	Economic	Local	WIND	52	
06/14	19	Economic	System	SOLR	34	144
06/14	19	Economic	System	WIND	43	176
06/14	20	Economic	Local	SOLR	0	3
06/14	21	Economic	Local	WIND	25	59
06/14	22	Economic	Local	WIND	7	81
06/14	23	Economic	System	WIND	8	92

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.