

Wind and Solar Curtailment June 17, 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.

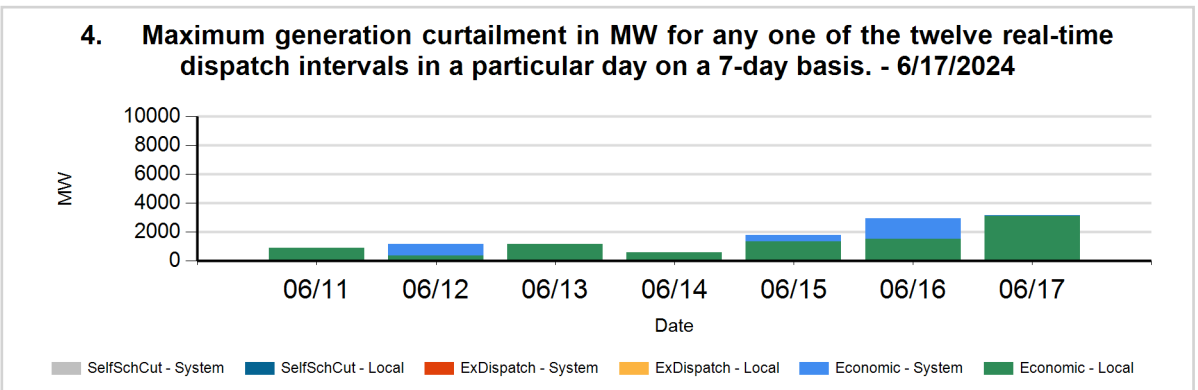
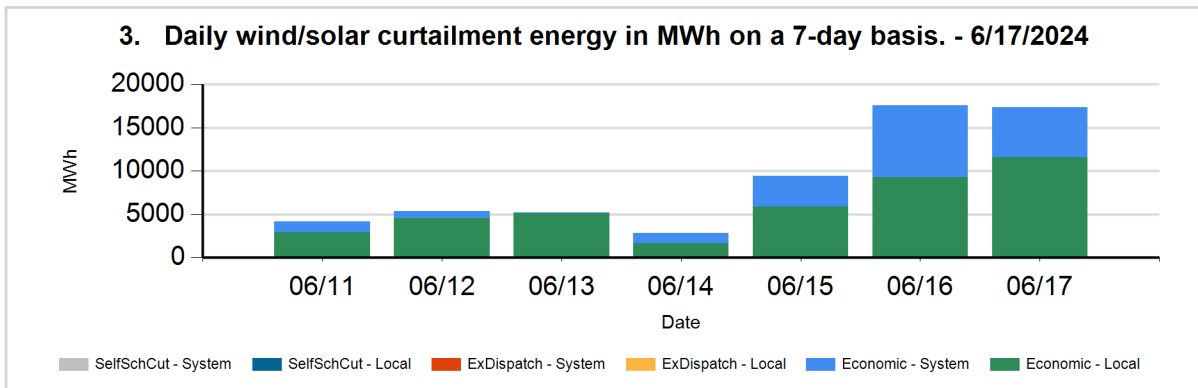
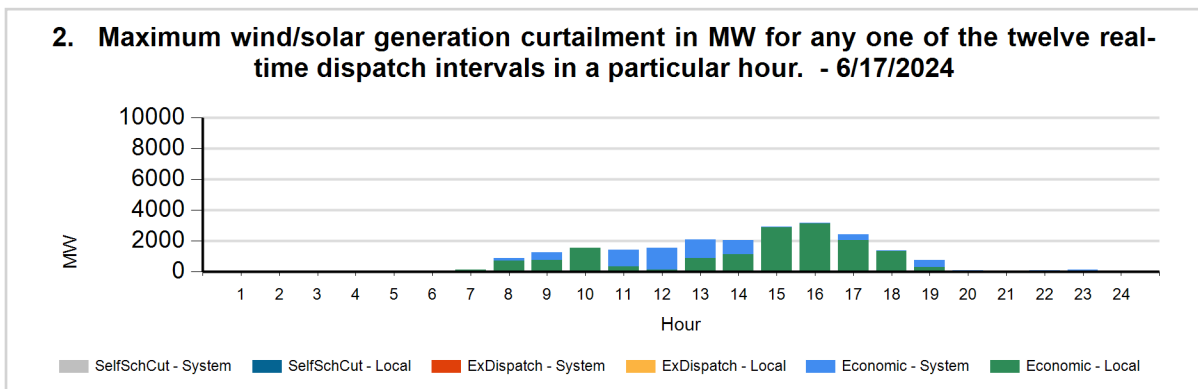
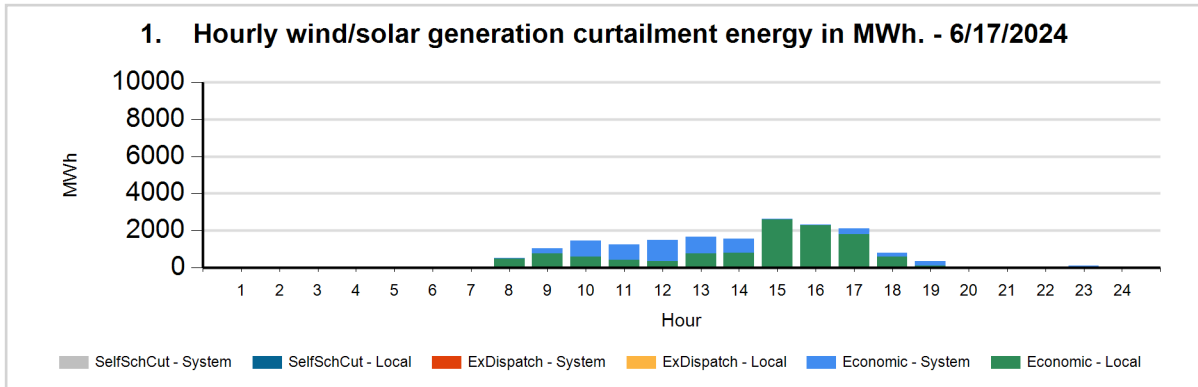
¹Only wind and solar resources can be reported in this manner because these resources have a forecast. Curtailment is defined as the difference between actual production and the forecast when actual production is less than the forecast.

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

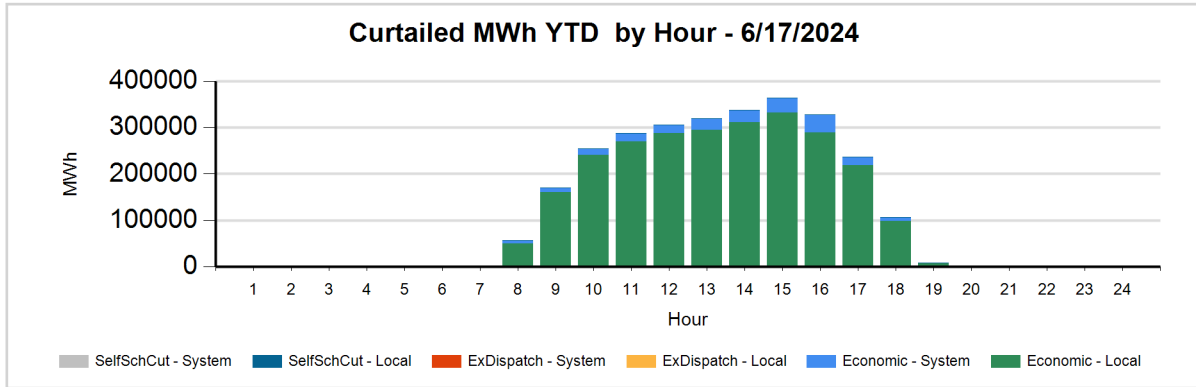
³Congestion occurs when available, least-cost energy cannot be delivered to some loads because transmission facilities do not have sufficient capacity to deliver the energy.

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

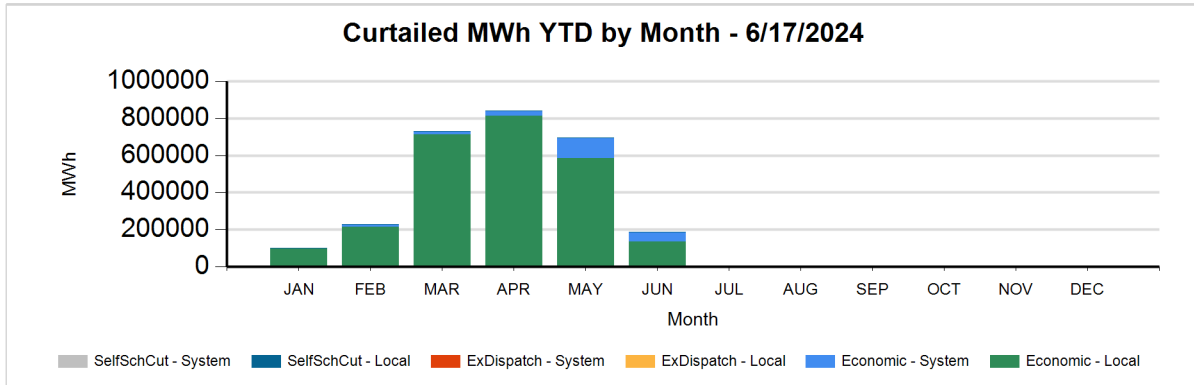
The following charts show the daily and 7-day wind and solar curtailment by category, if any.



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 - 6/17/2024
LocalEconomic	2,561,186
LocalSelfSchCut	1,572
SystemEconomic	220,549
TOTAL	2,783,307

Data used to produce hourly chart

DATE	HOUR	CURT TYPE	REASON	FUEL TYPE	CURTAILED MWH	CURTAILED MW
06/17	7	Economic	Local	SOLR	15	122
06/17	8	Economic	Local	SOLR	489	719
06/17	8	Economic	Local	WIND	1	
06/17	8	Economic	System	SOLR	20	155
06/17	8	Economic	System	WIND	1	16
06/17	9	Economic	Local	SOLR	742	765
06/17	9	Economic	Local	WIND	3	
06/17	9	Economic	System	SOLR	253	448
06/17	9	Economic	System	WIND	30	46
06/17	10	Economic	Local	SOLR	576	1386
06/17	10	Economic	Local	WIND	12	139
06/17	10	Economic	System	SOLR	751	
06/17	10	Economic	System	WIND	97	
06/17	11	Economic	Local	SOLR	394	324
06/17	11	Economic	Local	WIND	3	
06/17	11	Economic	System	SOLR	762	966
06/17	11	Economic	System	WIND	84	132
06/17	12	Economic	Local	SOLR	332	129
06/17	12	Economic	Local	WIND	24	
06/17	12	Economic	System	SOLR	1024	1260
06/17	12	Economic	System	WIND	120	145
06/17	13	Economic	Local	SOLR	741	860
06/17	13	Economic	System	SOLR	658	898
06/17	13	Economic	System	WIND	271	333
06/17	14	Economic	Local	SOLR	792	1142
06/17	14	Economic	System	SOLR	564	685
06/17	14	Economic	System	WIND	202	218
06/17	15	Economic	Local	SOLR	2213	2318
06/17	15	Economic	Local	WIND	416	593
06/17	15	Economic	System	WIND	11	11
06/17	16	Economic	Local	SOLR	1793	2523

06/17	16	Economic	Local	WIND	486	623
06/17	16	Economic	System	SOLR	35	
06/17	16	Economic	System	WIND	10	11
06/17	17	Economic	Local	SOLR	1337	1577
06/17	17	Economic	Local	WIND	458	481
06/17	17	Economic	System	SOLR	284	330
06/17	17	Economic	System	WIND	13	8
06/17	18	Economic	Local	SOLR	503	1130
06/17	18	Economic	Local	WIND	85	218
06/17	18	Economic	System	SOLR	82	
06/17	18	Economic	System	WIND	114	17
06/17	19	Economic	Local	SOLR	88	273
06/17	19	Economic	Local	WIND	3	
06/17	19	Economic	System	SOLR	176	260
06/17	19	Economic	System	WIND	86	194
06/17	20	Economic	Local	SOLR	1	
06/17	20	Economic	Local	WIND	7	
06/17	20	Economic	System	SOLR	10	24
06/17	20	Economic	System	WIND	9	46
06/17	21	Economic	Local	WIND	1	1
06/17	21	Economic	System	WIND	2	25
06/17	22	Economic	Local	WIND	38	14
06/17	22	Economic	System	WIND	9	57
06/17	23	Economic	Local	WIND	27	
06/17	23	Economic	System	WIND	66	119
06/17	24	Economic	Local	WIND	0	2

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.

