

Wind and Solar Curtailment June 02, 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.

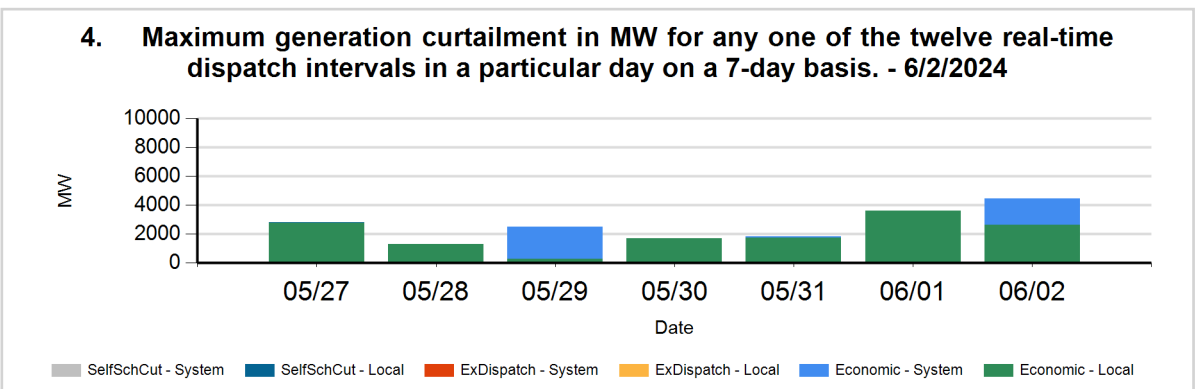
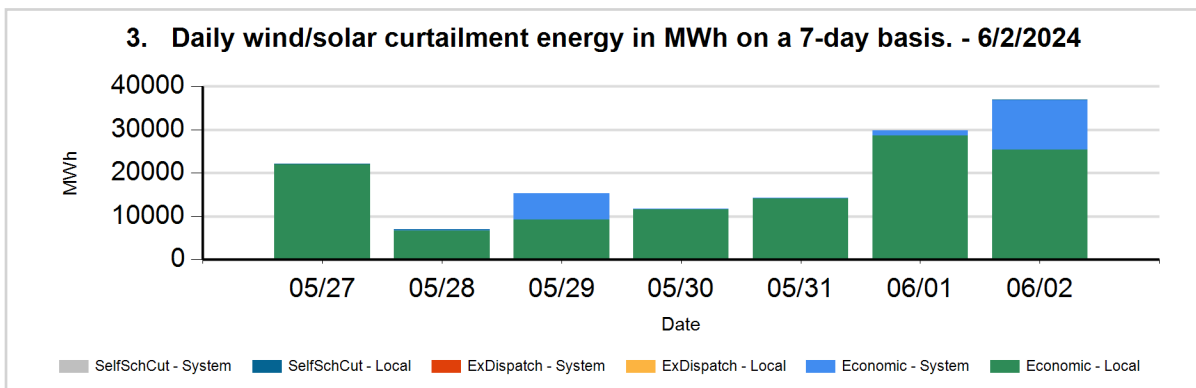
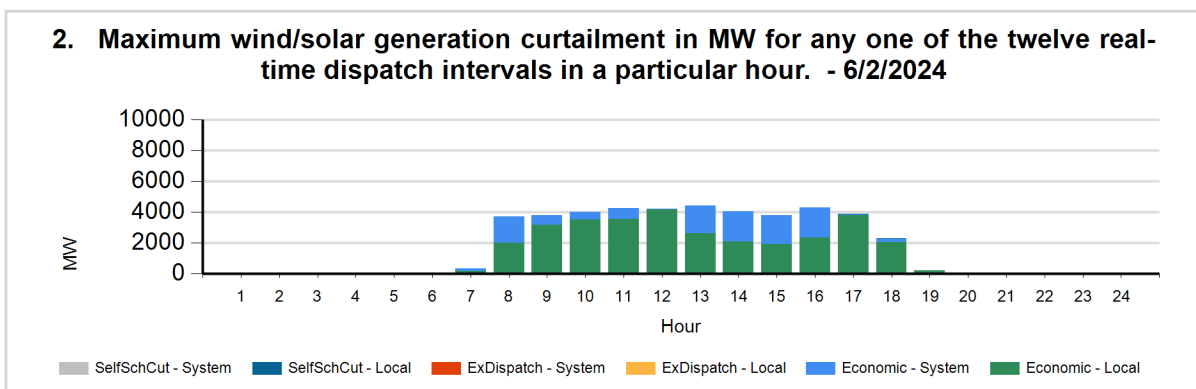
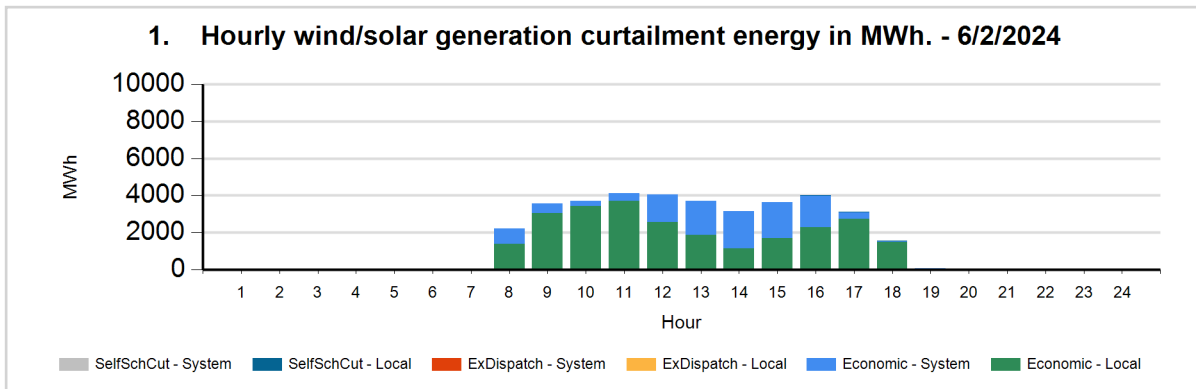
¹Only wind and solar resources can be reported in this manner because these resources have a forecast. Curtailment is defined as the difference between actual production and the forecast when actual production is less than the forecast.

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

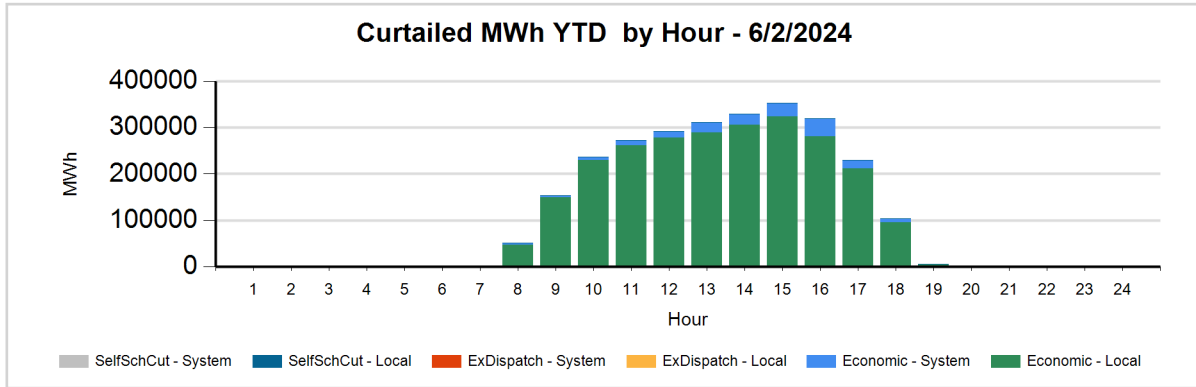
³Congestion occurs when available, least-cost energy cannot be delivered to some loads because transmission facilities do not have sufficient capacity to deliver the energy.

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

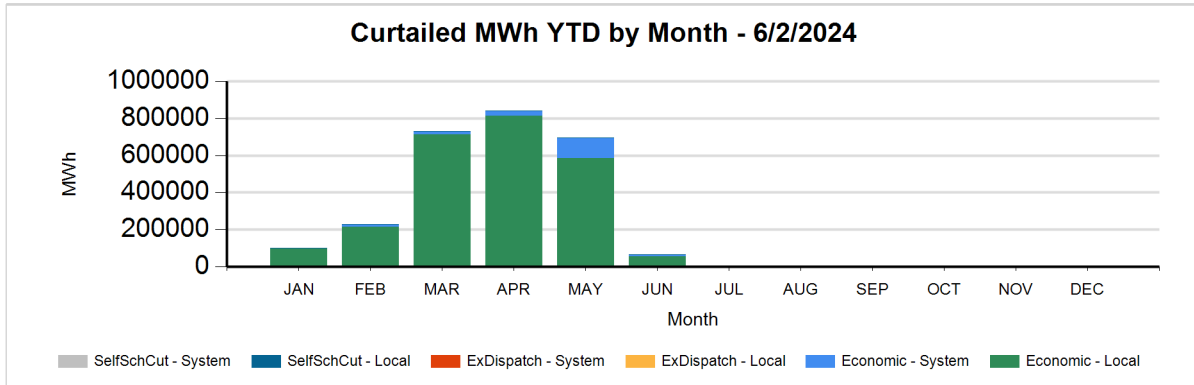
The following charts show the daily and 7-day wind and solar curtailment by category, if any.



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 - 6/2/2024
LocalEconomic	2,479,958
LocalSelfSchCut	1,571
SystemEconomic	180,323
TOTAL	2,661,853

Data used to produce hourly chart

DATE	HOUR	CURT TYPE	REASON	FUEL TYPE	CURTAILED MWH	CURTAILED MW
06/02	7	Economic	Local	SOLR	21	158
06/02	7	Economic	System	SOLR	20	150
06/02	7	Economic	System	WIND	6	35
06/02	8	Economic	Local	SOLR	1305	2016
06/02	8	Economic	Local	WIND	73	
06/02	8	Economic	System	SOLR	751	1498
06/02	8	Economic	System	WIND	94	205
06/02	9	Economic	Local	SOLR	2817	2940
06/02	9	Economic	Local	WIND	226	236
06/02	9	Economic	System	SOLR	479	591
06/02	9	Economic	System	WIND	37	37
06/02	10	Economic	Local	SOLR	3206	3286
06/02	10	Economic	Local	WIND	230	223
06/02	10	Economic	System	SOLR	235	457
06/02	10	Economic	System	WIND	37	36
06/02	11	Economic	Local	SOLR	3483	3365
06/02	11	Economic	Local	WIND	220	159
06/02	11	Economic	System	SOLR	344	589
06/02	11	Economic	System	WIND	59	136
06/02	12	Economic	Local	SOLR	2496	3921
06/02	12	Economic	Local	WIND	48	262
06/02	12	Economic	System	SOLR	1251	4
06/02	12	Economic	System	WIND	244	36
06/02	13	Economic	Local	SOLR	1850	2618
06/02	13	Economic	Local	WIND	23	
06/02	13	Economic	System	SOLR	1561	1524
06/02	13	Economic	System	WIND	261	284
06/02	14	Economic	Local	SOLR	1105	2070
06/02	14	Economic	Local	WIND	23	
06/02	14	Economic	System	SOLR	1757	1712
06/02	14	Economic	System	WIND	254	269

06/02	15	Economic	Local	SOLR	1692	1896
06/02	15	Economic	System	SOLR	1594	1554
06/02	15	Economic	System	WIND	342	344
06/02	16	Economic	Local	SOLR	2247	2320
06/02	16	Economic	Local	WIND	18	
06/02	16	Economic	System	SOLR	1445	1628
06/02	16	Economic	System	WIND	299	343
06/02	16	SelfSchCut	Local	SOLR	6	
06/02	17	Economic	Local	SOLR	2643	3590
06/02	17	Economic	Local	WIND	72	220
06/02	17	Economic	System	SOLR	275	
06/02	17	Economic	System	WIND	94	38
06/02	17	SelfSchCut	Local	SOLR	16	16
06/02	18	Economic	Local	SOLR	1496	2042
06/02	18	Economic	System	SOLR	46	189
06/02	18	Economic	System	WIND	6	21
06/02	18	SelfSchCut	Local	SOLR	12	19
06/02	19	Economic	Local	SOLR	53	219
06/02	19	Economic	System	SOLR	12	

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.