

Wind and Solar Curtailment June 04, 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.

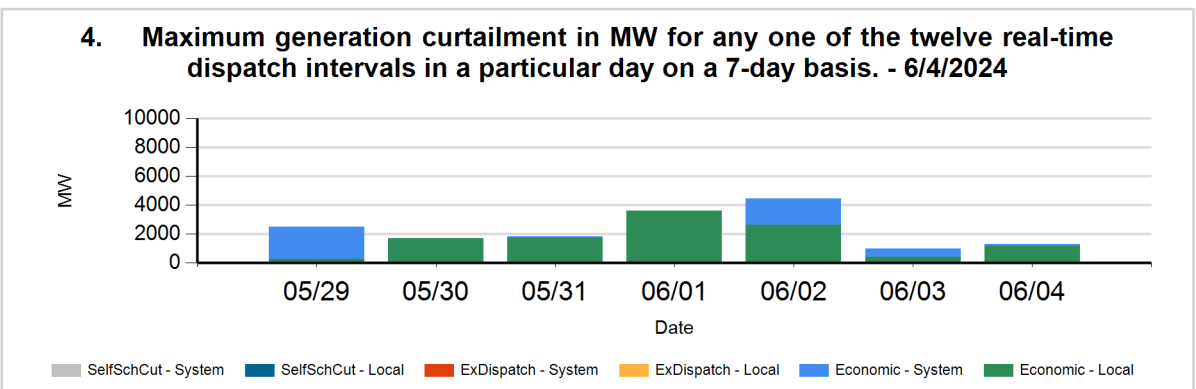
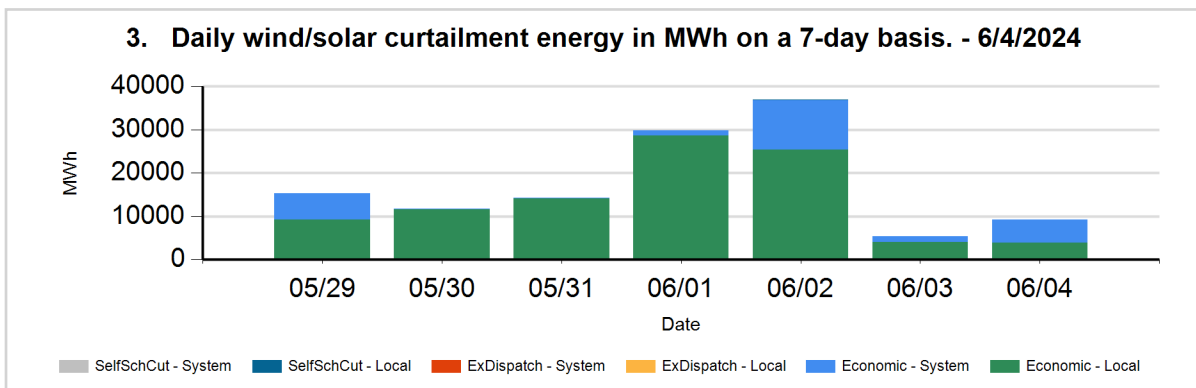
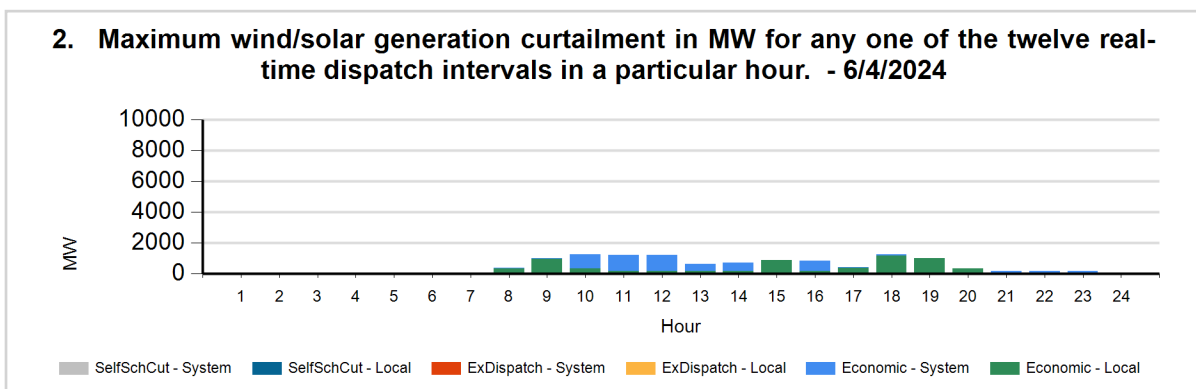
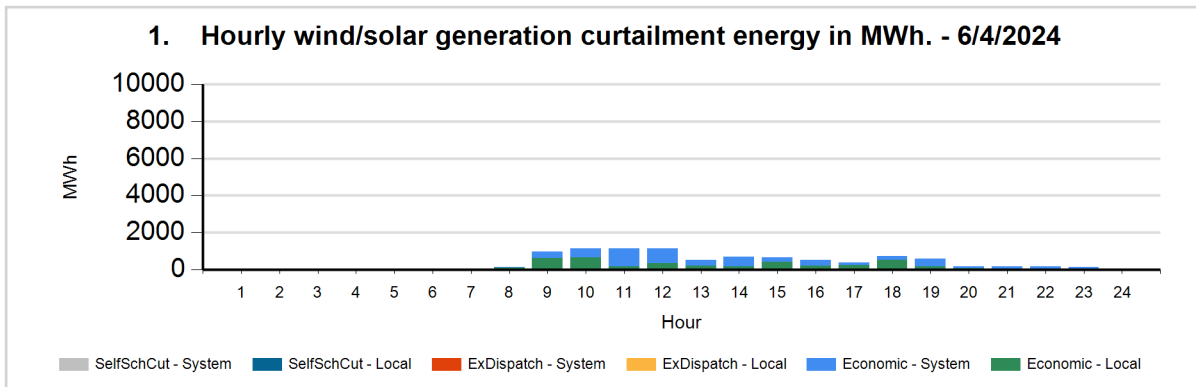
¹Only wind and solar resources can be reported in this manner because these resources have a forecast. Curtailment is defined as the difference between actual production and the forecast when actual production is less than the forecast.

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

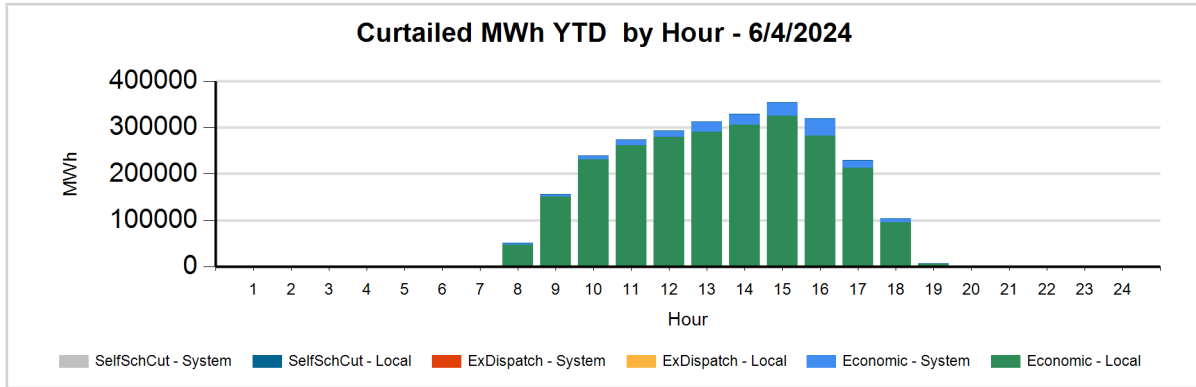
³Congestion occurs when available, least-cost energy cannot be delivered to some loads because transmission facilities do not have sufficient capacity to deliver the energy.

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

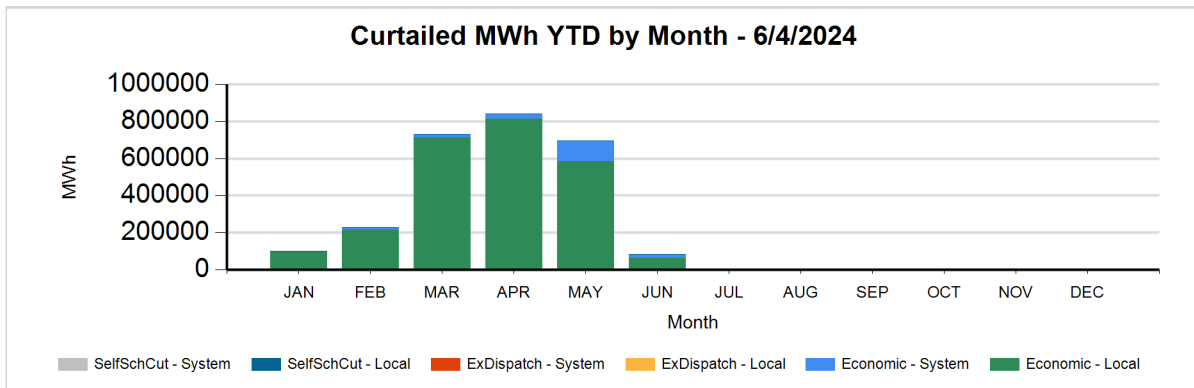
The following charts show the daily and 7-day wind and solar curtailment by category, if any.



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 - 6/4/2024
LocalEconomic	2,487,900
LocalSelfSchCut	1,571
SystemEconomic	186,953
TOTAL	2,676,424

Data used to produce hourly chart

DATE	HOUR	CURT TYPE	REASON	FUEL TYPE	CURTAILED MWH	CURTAILED MW
06/04	6	Economic	Local	SOLR	0	1
06/04	7	Economic	Local	SOLR	2	5
06/04	8	Economic	Local	SOLR	120	362
06/04	8	Economic	System	SOLR	25	25
06/04	9	Economic	Local	SOLR	594	982
06/04	9	Economic	Local	WIND	10	14
06/04	9	Economic	System	SOLR	336	13
06/04	9	Economic	System	WIND	12	
06/04	10	Economic	Local	SOLR	636	328
06/04	10	Economic	Local	WIND	5	
06/04	10	Economic	System	SOLR	497	909
06/04	10	Economic	System	WIND	8	15
06/04	11	Economic	Local	SOLR	163	164
06/04	11	Economic	System	SOLR	939	964
06/04	11	Economic	System	WIND	32	57
06/04	12	Economic	Local	SOLR	337	179
06/04	12	Economic	Local	WIND	5	
06/04	12	Economic	System	SOLR	758	954
06/04	12	Economic	System	WIND	44	71
06/04	13	Economic	Local	SOLR	198	167
06/04	13	Economic	Local	WIND	10	
06/04	13	Economic	System	SOLR	226	372
06/04	13	Economic	System	WIND	94	85
06/04	14	Economic	Local	SOLR	169	165
06/04	14	Economic	System	SOLR	395	430
06/04	14	Economic	System	WIND	108	129
06/04	15	Economic	Local	SOLR	373	770
06/04	15	Economic	Local	WIND	27	101
06/04	15	Economic	System	SOLR	189	
06/04	15	Economic	System	WIND	80	
06/04	16	Economic	Local	SOLR	186	163

06/04	16	Economic	Local	WIND	16	
06/04	16	Economic	System	SOLR	241	544
06/04	16	Economic	System	WIND	80	106
06/04	17	Economic	Local	SOLR	228	365
06/04	17	Economic	Local	WIND	10	
06/04	17	Economic	System	SOLR	76	20
06/04	17	Economic	System	WIND	56	44
06/04	18	Economic	Local	SOLR	512	1147
06/04	18	Economic	Local	WIND	8	
06/04	18	Economic	System	SOLR	108	3
06/04	18	Economic	System	WIND	86	113
06/04	19	Economic	Local	SOLR	106	712
06/04	19	Economic	Local	WIND	50	273
06/04	19	Economic	System	SOLR	282	
06/04	19	Economic	System	WIND	152	
06/04	20	Economic	Local	SOLR	22	158
06/04	20	Economic	Local	WIND	31	167
06/04	20	Economic	System	SOLR	25	
06/04	20	Economic	System	WIND	78	
06/04	21	Economic	Local	WIND	15	4
06/04	21	Economic	System	WIND	159	176
06/04	22	Economic	Local	WIND	42	
06/04	22	Economic	System	WIND	127	176
06/04	23	Economic	Local	WIND	25	
06/04	23	Economic	System	WIND	126	164
06/04	24	Economic	System	WIND	0	3

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.

