

Wind and Solar Curtailment June 28, 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.

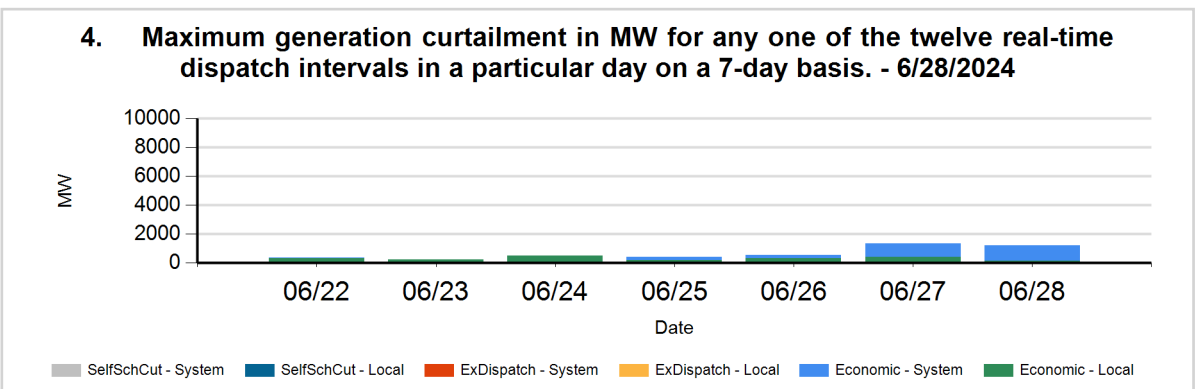
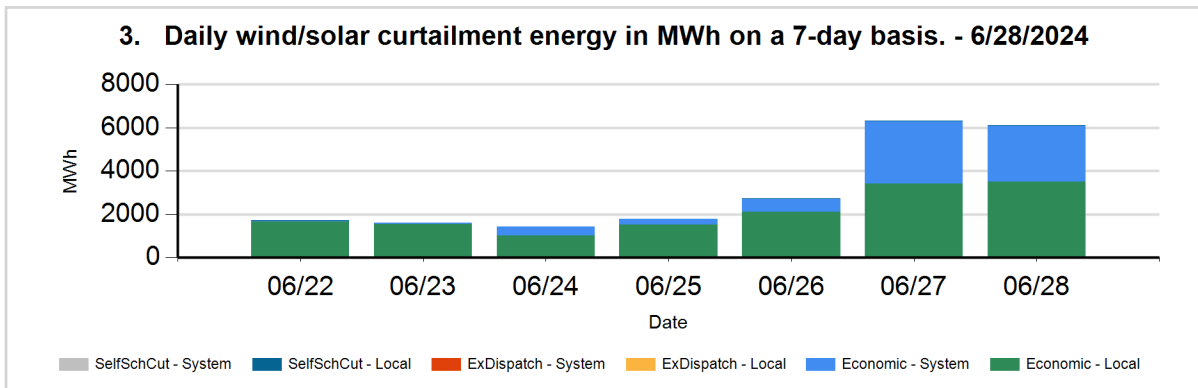
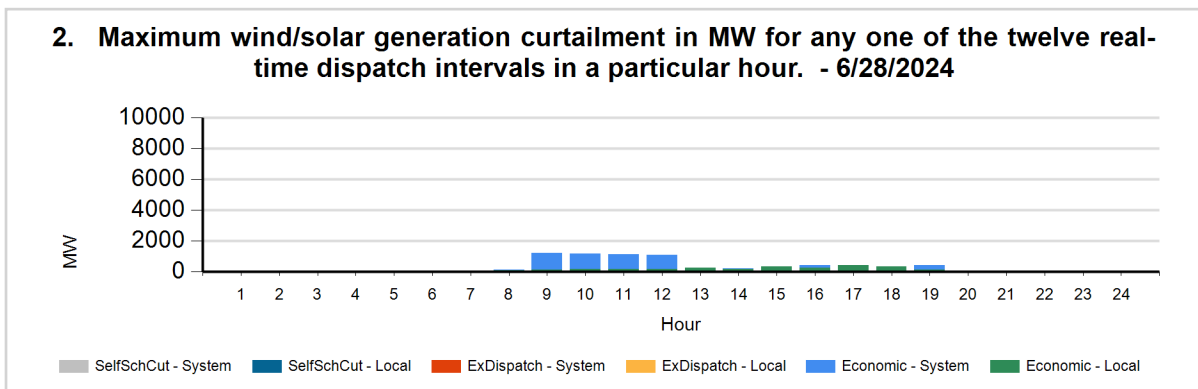
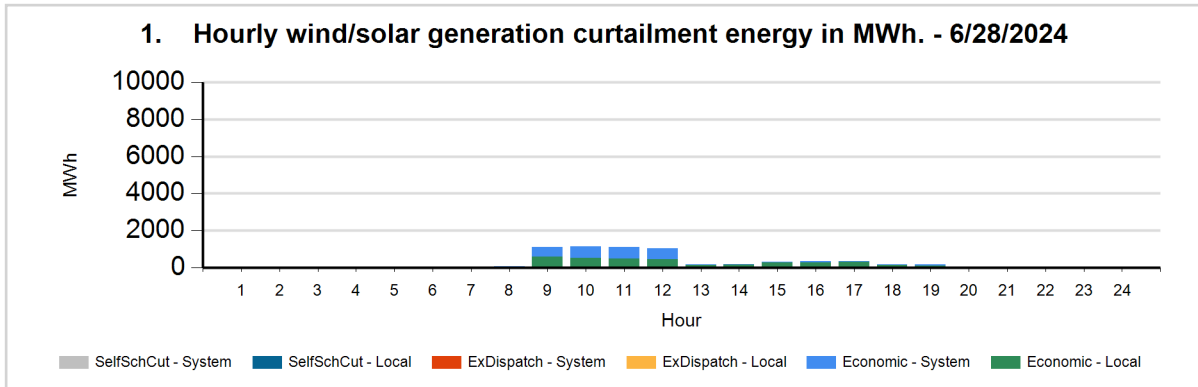
¹Only wind and solar resources can be reported in this manner because these resources have a forecast. Curtailment is defined as the difference between actual production and the forecast when actual production is less than the forecast.

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

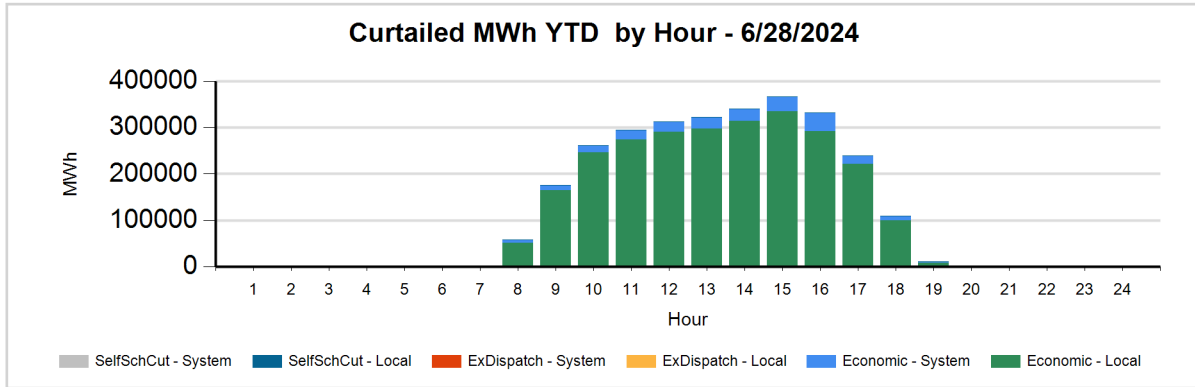
³Congestion occurs when available, least-cost energy cannot be delivered to some loads because transmission facilities do not have sufficient capacity to deliver the energy.

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

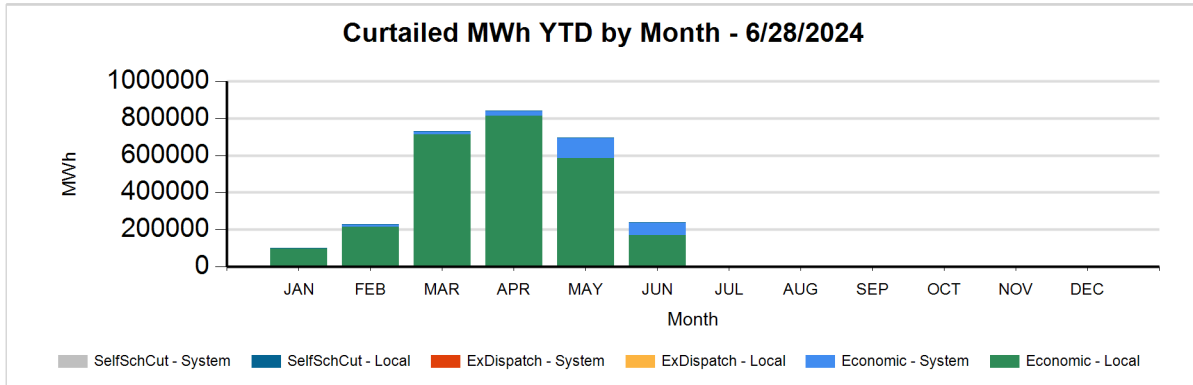
The following charts show the daily and 7-day wind and solar curtailment by category, if any.



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 - 6/28/2024
LocalEconomic	2,595,138
LocalSelfSchCut	1,601
SystemEconomic	235,478
TOTAL	2,832,217

Data used to produce hourly chart

DATE	HOUR	CURT TYPE	REASON	FUEL TYPE	CURTAILED MWH	CURTAILED MW
06/28	7	Economic	Local	SOLR	3	14
06/28	7	Economic	System	SOLR	1	
06/28	8	Economic	Local	SOLR	36	76
06/28	8	Economic	System	SOLR	23	44
06/28	9	Economic	Local	SOLR	511	133
06/28	9	Economic	Local	WIND	83	
06/28	9	Economic	System	SOLR	398	839
06/28	9	Economic	System	WIND	104	221
06/28	10	Economic	Local	SOLR	460	142
06/28	10	Economic	Local	WIND	48	
06/28	10	Economic	System	SOLR	523	831
06/28	10	Economic	System	WIND	106	188
06/28	11	Economic	Local	SOLR	455	175
06/28	11	Economic	Local	WIND	25	
06/28	11	Economic	System	SOLR	558	836
06/28	11	Economic	System	WIND	63	128
06/28	12	Economic	Local	SOLR	448	165
06/28	12	Economic	Local	WIND	13	
06/28	12	Economic	System	SOLR	548	859
06/28	12	Economic	System	WIND	26	37
06/28	13	Economic	Local	SOLR	163	236
06/28	13	Economic	Local	WIND	1	
06/28	13	Economic	System	SOLR	2	
06/28	13	Economic	System	WIND	1	
06/28	14	Economic	Local	SOLR	151	147
06/28	14	Economic	System	SOLR	9	48
06/28	14	SelfSchCut	Local	SOLR	1	
06/28	15	Economic	Local	SOLR	161	192
06/28	15	Economic	Local	WIND	109	133
06/28	15	Economic	System	SOLR	1	
06/28	15	Economic	System	WIND	20	

06/28	16	Economic	Local	SOLR	180	249
06/28	16	Economic	Local	WIND	87	
06/28	16	Economic	System	SOLR	2	4
06/28	16	Economic	System	WIND	84	166
06/28	17	Economic	Local	SOLR	234	247
06/28	17	Economic	Local	WIND	72	186
06/28	17	Economic	System	SOLR	1	
06/28	17	Economic	System	WIND	42	
06/28	18	Economic	Local	SOLR	133	150
06/28	18	Economic	Local	WIND	22	170
06/28	18	Economic	System	SOLR	1	
06/28	18	Economic	System	WIND	9	
06/28	19	Economic	Local	SOLR	88	128
06/28	19	Economic	Local	WIND	0	
06/28	19	Economic	System	SOLR	73	155
06/28	19	Economic	System	WIND	17	111
06/28	20	Economic	Local	SOLR	3	9
06/28	20	Economic	System	SOLR	3	12
06/28	21	Economic	Local	WIND	0	2
06/28	21	Economic	System	WIND	0	
06/28	22	Economic	Local	WIND	1	
06/28	22	Economic	System	WIND	1	3
06/28	23	Economic	Local	WIND	1	
06/28	23	Economic	System	WIND	2	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.

