

Wind and Solar Curtailment July 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.

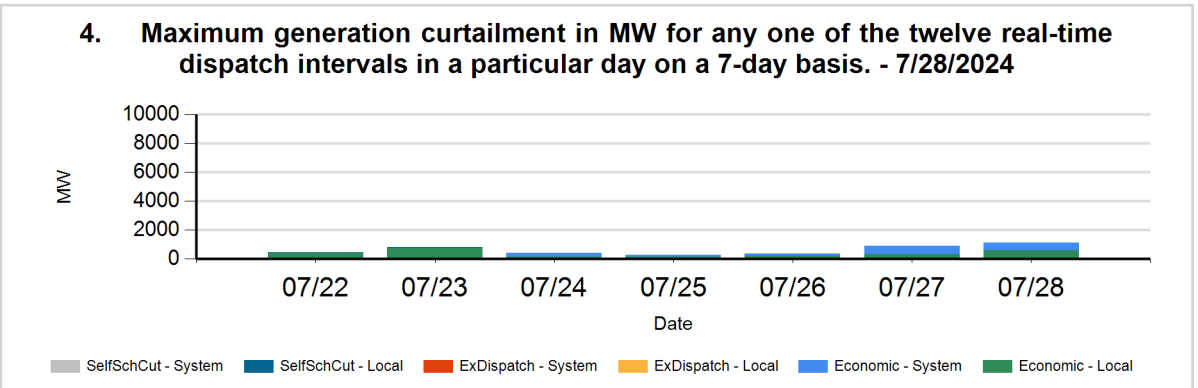
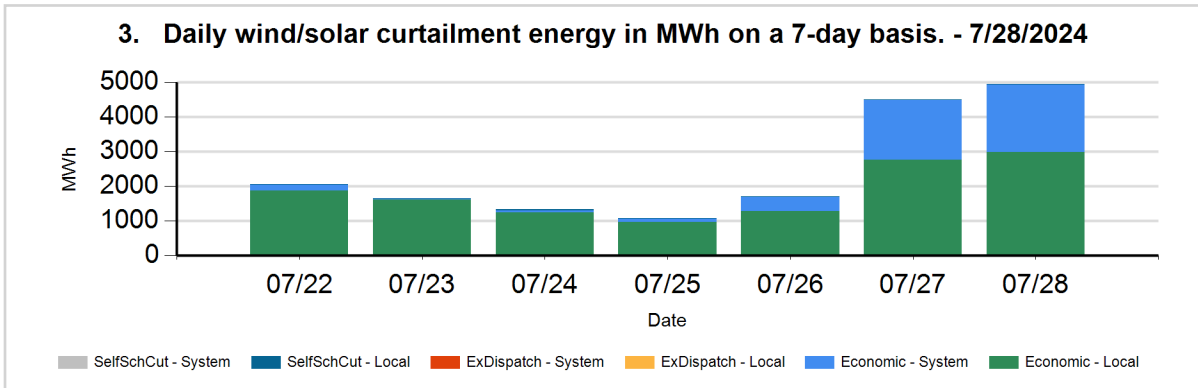
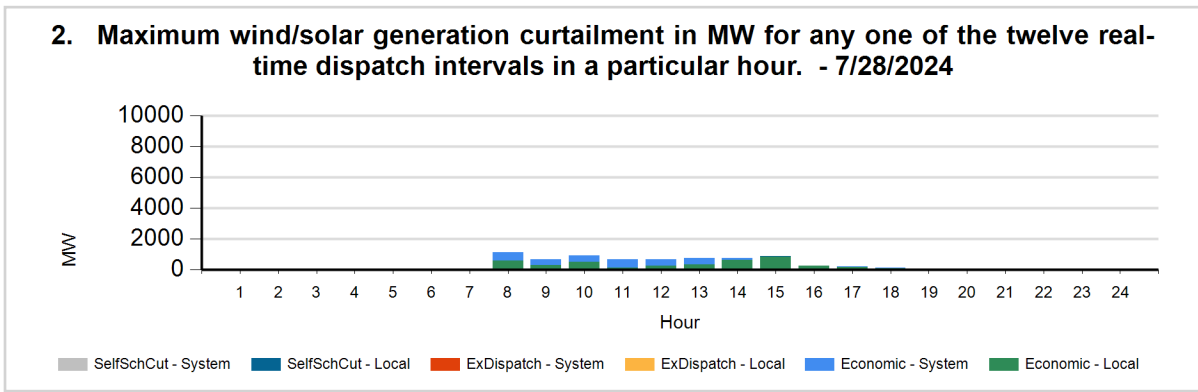
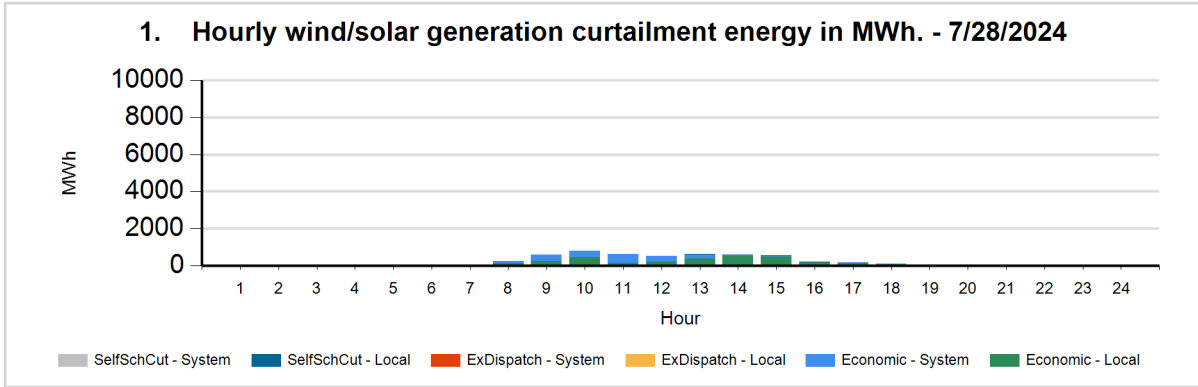
²The Renewables Watch report provides daily actual renewable production within the ISO grid. It is available at: <http://www.caiso.com/green/renewableswatch.html>.

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.

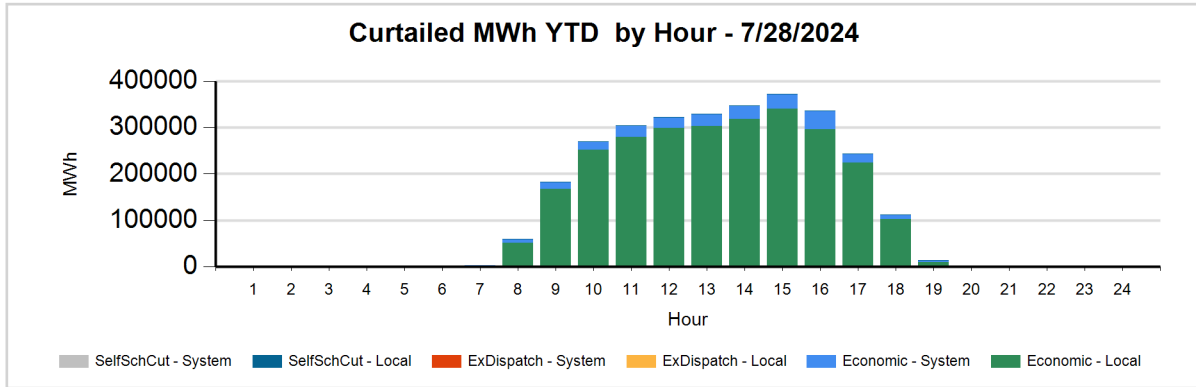
⁴For more information on oversupply conditions, please see:

https://www.caiso.com/Documents/FlexibleResourcesHelpRenewables_FastFacts.pdf

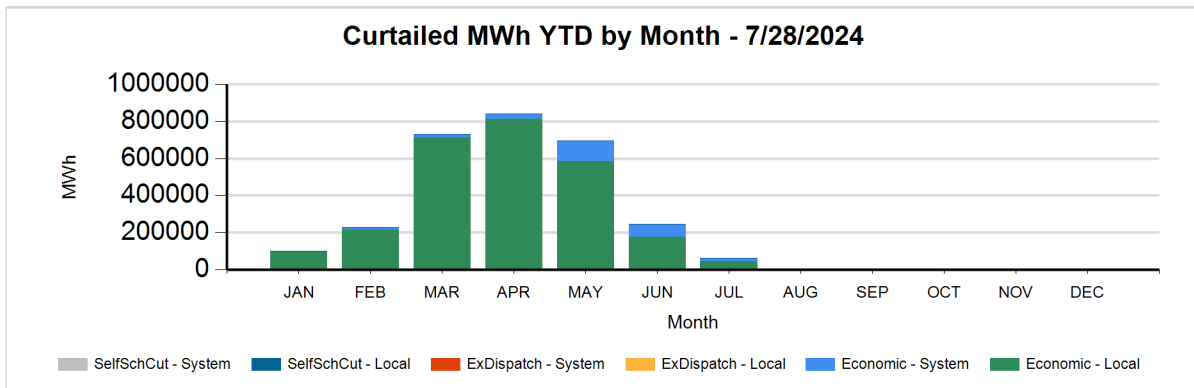
The following charts show the daily and 7-day wind and solar curtailment by category, if any.



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 - 7/28/2024
LocalEconomic	2,647,502
LocalSelfSchCut	1,783
SystemEconomic	253,510
TOTAL	2,902,796

Data used to produce hourly chart

DATE	HOUR	CURT TYPE	REASON	FUEL TYPE	CURTAILED MWH	CURTAILED MW
07/28	7	Economic	System	SOLR	0	2
07/28	8	Economic	Local	SOLR	124	579
07/28	8	Economic	Local	WIND	11	
07/28	8	Economic	System	SOLR	83	445
07/28	8	Economic	System	WIND	15	79
07/28	9	Economic	Local	SOLR	234	289
07/28	9	Economic	System	SOLR	291	308
07/28	9	Economic	System	WIND	49	58
07/28	10	Economic	Local	SOLR	451	509
07/28	10	Economic	Local	WIND	9	
07/28	10	Economic	System	SOLR	262	315
07/28	10	Economic	System	WIND	57	82
07/28	10	SelfSchCut	Local	SOLR	0	
07/28	11	Economic	Local	SOLR	122	113
07/28	11	Economic	System	SOLR	410	466
07/28	11	Economic	System	WIND	75	83
07/28	12	Economic	Local	SOLR	186	258
07/28	12	Economic	Local	WIND	14	
07/28	12	Economic	System	SOLR	260	300
07/28	12	Economic	System	WIND	63	86
07/28	13	Economic	Local	SOLR	361	345
07/28	13	Economic	Local	WIND	31	
07/28	13	Economic	System	SOLR	154	289
07/28	13	Economic	System	WIND	63	104
07/28	13	SelfSchCut	Local	SOLR	1	
07/28	14	Economic	Local	SOLR	481	607
07/28	14	Economic	Local	WIND	23	
07/28	14	Economic	System	SOLR	32	25
07/28	14	Economic	System	WIND	54	106
07/28	14	SelfSchCut	Local	SOLR	3	
07/28	15	Economic	Local	SOLR	473	750

07/28	15	Economic	Local	WIND	9	106
07/28	15	Economic	System	SOLR	21	
07/28	15	Economic	System	WIND	44	
07/28	15	SelfSchCut	Local	SOLR	2	13
07/28	16	Economic	Local	SOLR	200	257
07/28	16	Economic	System	SOLR	16	
07/28	16	SelfSchCut	Local	SOLR	1	
07/28	17	Economic	Local	SOLR	137	193
07/28	17	Economic	System	SOLR	17	24
07/28	18	Economic	Local	SOLR	85	115
07/28	18	Economic	Local	WIND	7	
07/28	18	Economic	System	SOLR	3	9
07/28	19	Economic	Local	SOLR	18	56
07/28	19	Economic	System	SOLR	1	
07/28	20	Economic	System	SOLR	0	1

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.