

Wind and Solar Curtailment July 05, 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.

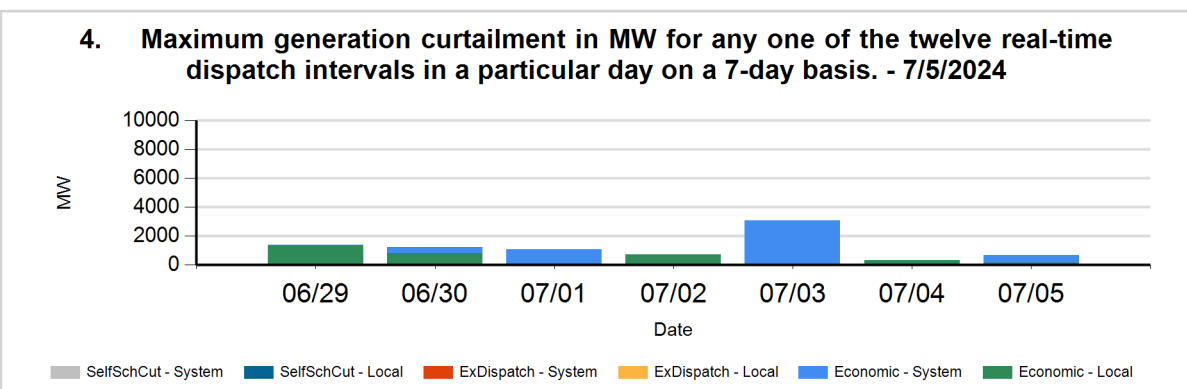
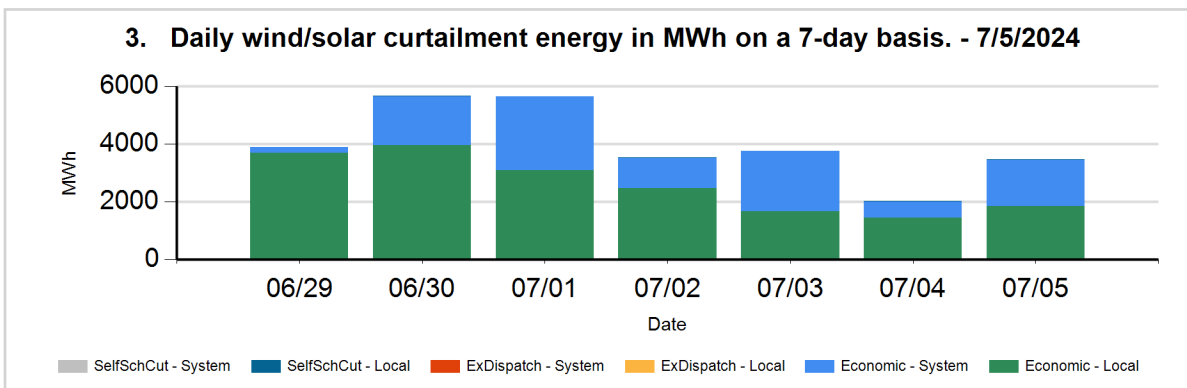
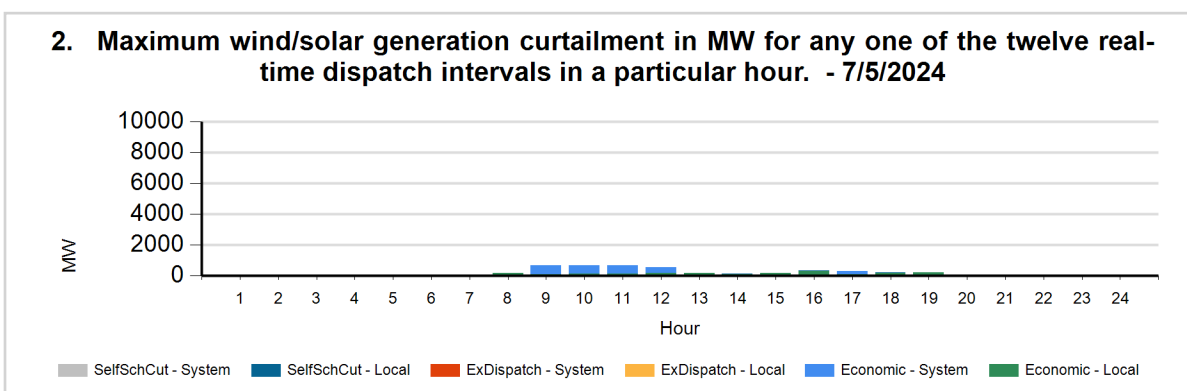
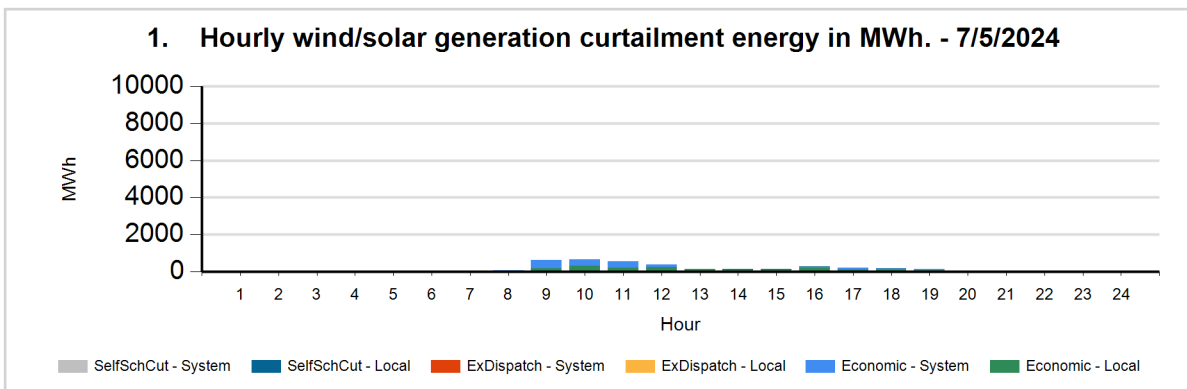
²The Renewables Watch report provides daily actual renewable production within the ISO grid. It is available at: <http://www.caiso.com/green/renewableswatch.html>.

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.

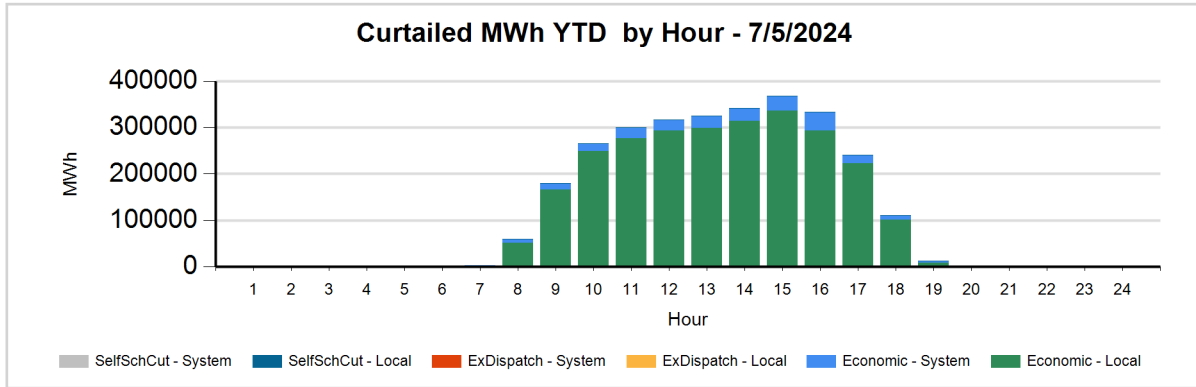
⁴For more information on oversupply conditions, please see:

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

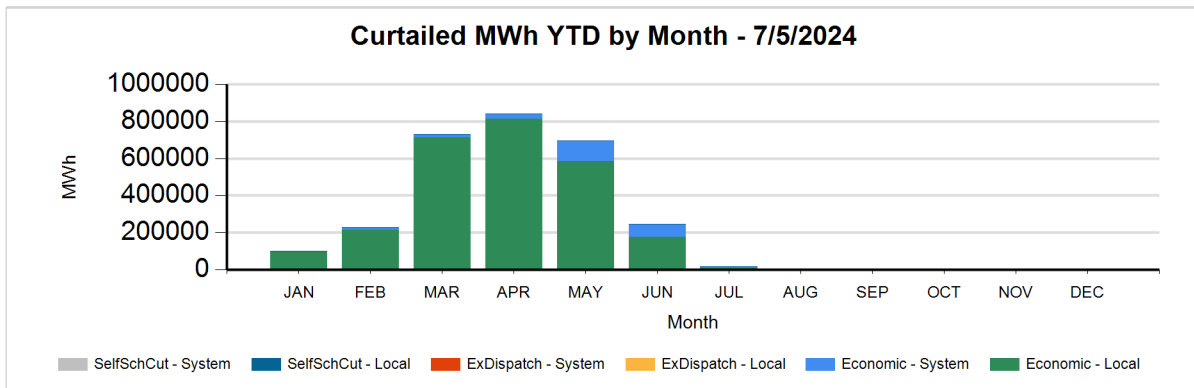
The following charts show the daily and 7-day wind and solar curtailment by category, if any.



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 - 7/5/2024
LocalEconomic	2,613,272
LocalSelfSchCut	1,620
SystemEconomic	245,284
TOTAL	2,860,176

Data used to produce hourly chart

DATE	HOUR	CURT TYPE	REASON	FUEL TYPE	CURTAILED MWH	CURTAILED MW
07/05	1	Economic	System	WIND	1	8
07/05	7	Economic	Local	SOLR	1	
07/05	7	Economic	System	SOLR	2	10
07/05	8	Economic	Local	SOLR	18	63
07/05	8	Economic	Local	WIND	27	108
07/05	8	Economic	System	SOLR	9	
07/05	8	Economic	System	WIND	27	
07/05	9	Economic	Local	SOLR	132	91
07/05	9	Economic	Local	WIND	37	
07/05	9	Economic	System	SOLR	270	328
07/05	9	Economic	System	WIND	182	226
07/05	10	Economic	Local	SOLR	233	119
07/05	10	Economic	Local	WIND	59	
07/05	10	Economic	System	SOLR	230	344
07/05	10	Economic	System	WIND	117	182
07/05	11	Economic	Local	SOLR	193	141
07/05	11	Economic	Local	WIND	5	
07/05	11	Economic	System	SOLR	292	351
07/05	11	Economic	System	WIND	61	166
07/05	12	Economic	Local	SOLR	216	146
07/05	12	Economic	Local	WIND	6	
07/05	12	Economic	System	SOLR	148	353
07/05	12	Economic	System	WIND	12	23
07/05	13	Economic	Local	SOLR	147	154
07/05	14	Economic	Local	SOLR	126	130
07/05	14	SelfSchCut	Local	SOLR	1	10
07/05	15	Economic	Local	SOLR	128	130
07/05	15	Economic	Local	WIND	4	53
07/05	15	Economic	System	WIND	4	
07/05	15	SelfSchCut	Local	SOLR	1	
07/05	16	Economic	Local	SOLR	210	316

07/05	16	Economic	System	SOLR	45	
07/05	16	SelfSchCut	Local	SOLR	1	1
07/05	17	Economic	Local	SOLR	102	70
07/05	17	Economic	Local	WIND	7	
07/05	17	Economic	System	SOLR	62	106
07/05	17	Economic	System	WIND	28	104
07/05	18	Economic	Local	SOLR	103	184
07/05	18	Economic	Local	WIND	1	13
07/05	18	Economic	System	SOLR	59	
07/05	18	SelfSchCut	Local	SOLR	1	7
07/05	19	Economic	Local	SOLR	72	197
07/05	19	Economic	Local	WIND	0	2
07/05	19	Economic	System	SOLR	66	
07/05	19	Economic	System	WIND	1	
07/05	20	Economic	Local	SOLR	6	13
07/05	20	Economic	System	SOLR	11	43
07/05	23	Economic	Local	WIND	0	3
07/05	23	Economic	System	WIND	0	

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.