

Wind and Solar Curtailment July 01, 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.

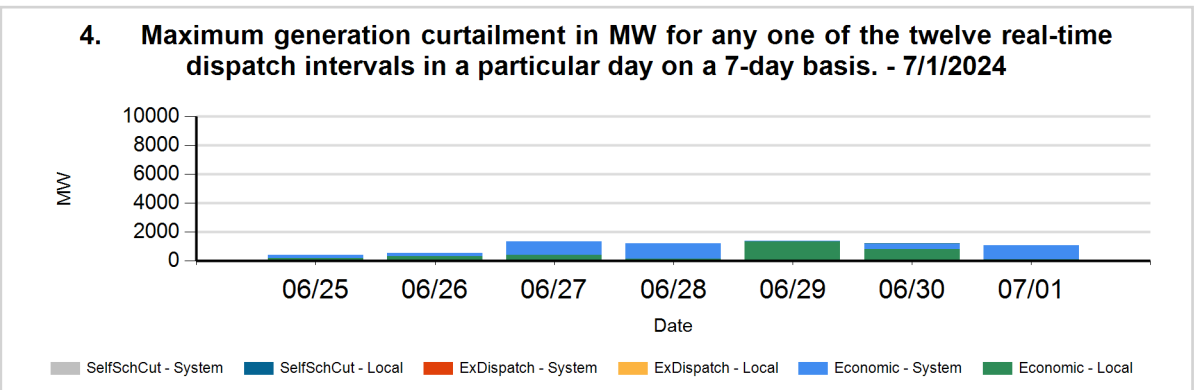
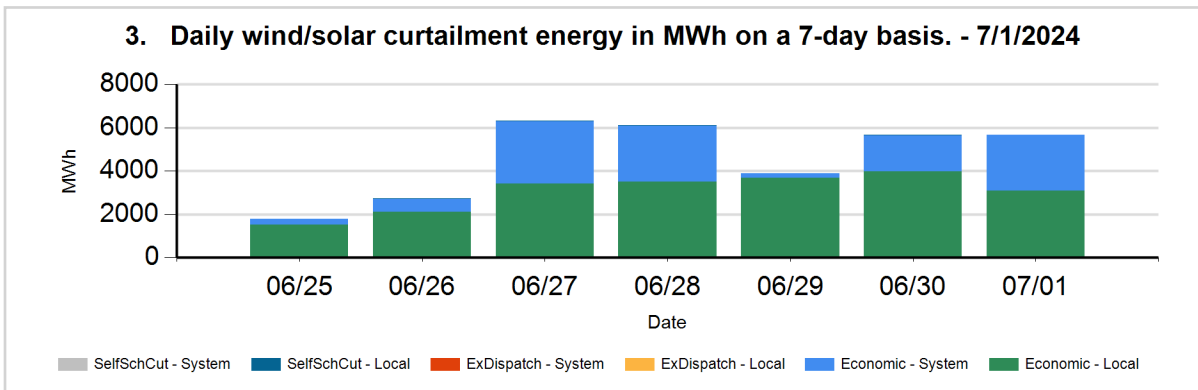
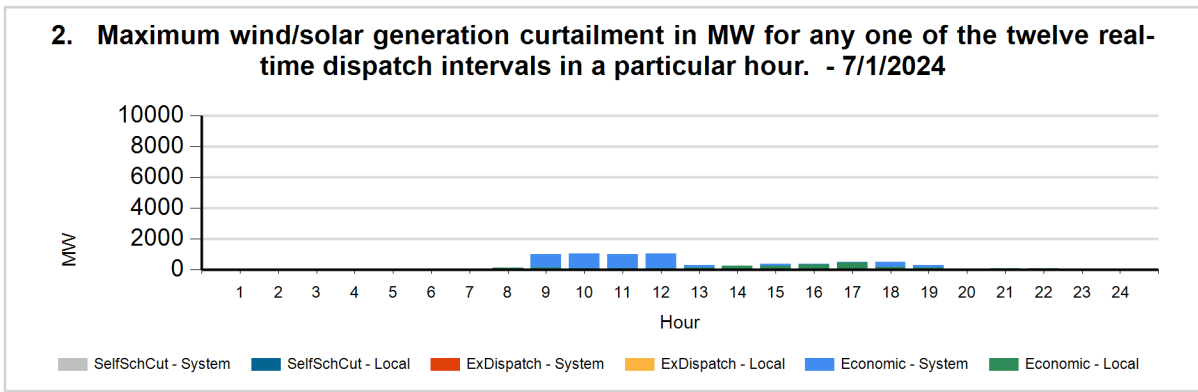
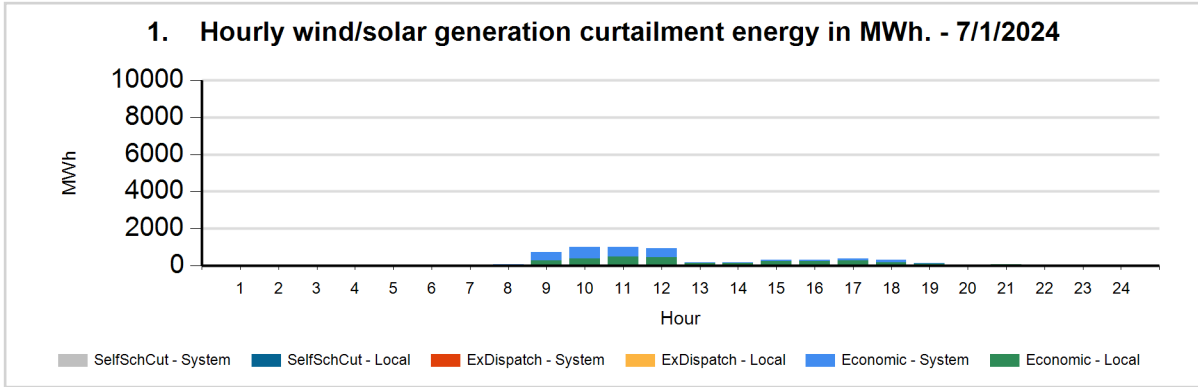
²The Renewables Watch report provides daily actual renewable production within the ISO grid. It is available at: <http://www.caiso.com/green/renewableswatch.html>.

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.

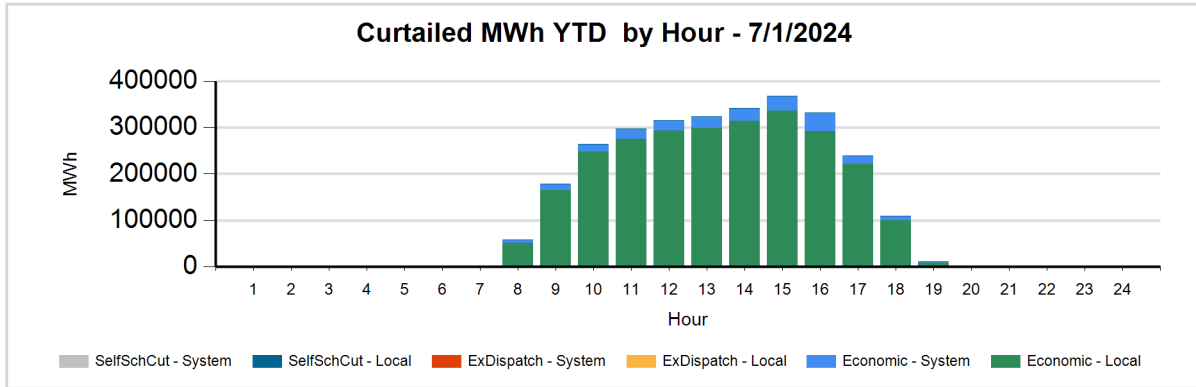
⁴For more information on oversupply conditions, please see:

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

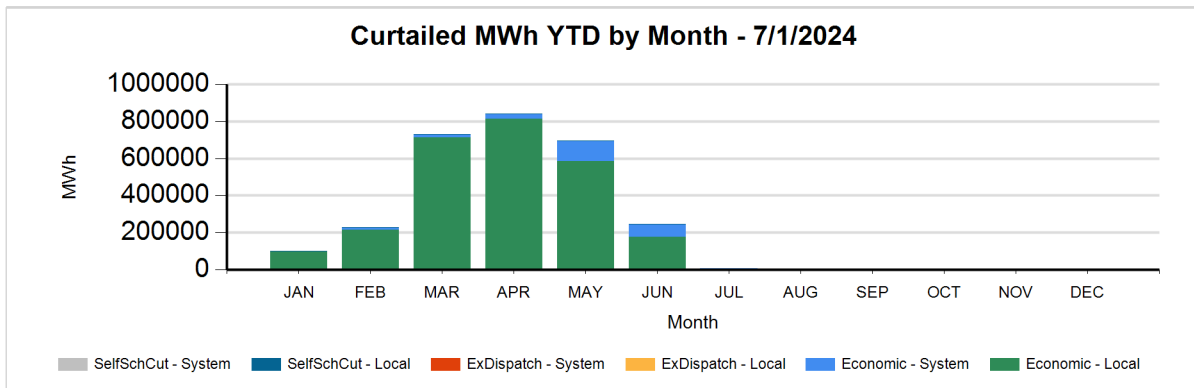
The following charts show the daily and 7-day wind and solar curtailment by category, if any.



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 - 7/1/2024
LocalEconomic	2,605,862
LocalSelfSchCut	1,605
SystemEconomic	239,948
TOTAL	2,847,415

Data used to produce hourly chart

DATE	HOUR	CURT TYPE	REASON	FUEL TYPE	CURTAILED MWH	CURTAILED MW
07/01	7	Economic	System	SOLR	2	11
07/01	8	Economic	Local	SOLR	56	129
07/01	8	Economic	System	SOLR	8	
07/01	9	Economic	Local	SOLR	255	126
07/01	9	Economic	Local	WIND	21	
07/01	9	Economic	System	SOLR	385	800
07/01	9	Economic	System	WIND	66	77
07/01	10	Economic	Local	SOLR	371	97
07/01	10	Economic	Local	WIND	19	
07/01	10	Economic	System	SOLR	570	904
07/01	10	Economic	System	WIND	38	49
07/01	11	Economic	Local	SOLR	454	98
07/01	11	Economic	Local	WIND	15	
07/01	11	Economic	System	SOLR	502	864
07/01	11	Economic	System	WIND	25	39
07/01	12	Economic	Local	SOLR	450	92
07/01	12	Economic	Local	WIND	10	
07/01	12	Economic	System	SOLR	471	926
07/01	12	Economic	System	WIND	14	29
07/01	13	Economic	Local	SOLR	126	127
07/01	13	Economic	System	SOLR	59	141
07/01	14	Economic	Local	SOLR	157	244
07/01	14	Economic	System	SOLR	21	
07/01	15	Economic	Local	SOLR	211	261
07/01	15	Economic	Local	WIND	28	
07/01	15	Economic	System	SOLR	11	
07/01	15	Economic	System	WIND	54	125
07/01	16	Economic	Local	SOLR	193	237
07/01	16	Economic	Local	WIND	46	72
07/01	16	Economic	System	SOLR	1	
07/01	16	Economic	System	WIND	83	67

07/01	17	Economic	Local	SOLR	211	335
07/01	17	Economic	Local	WIND	73	166
07/01	17	Economic	System	SOLR	2	3
07/01	17	Economic	System	WIND	81	
07/01	18	Economic	Local	SOLR	170	180
07/01	18	Economic	Local	WIND	7	
07/01	18	Economic	System	SOLR	26	134
07/01	18	Economic	System	WIND	117	177
07/01	19	Economic	Local	SOLR	87	131
07/01	19	Economic	Local	WIND	1	
07/01	19	Economic	System	SOLR	31	135
07/01	19	Economic	System	WIND	3	23
07/01	20	Economic	Local	SOLR	6	
07/01	20	Economic	Local	WIND	20	52
07/01	20	Economic	System	SOLR	3	5
07/01	20	Economic	System	WIND	1	
07/01	21	Economic	Local	WIND	62	83
07/01	22	Economic	Local	WIND	29	93
07/01	22	Economic	System	WIND	1	
07/01	23	Economic	Local	WIND	2	2
07/01	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.