

Wind and Solar Curtailment June 08, 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.

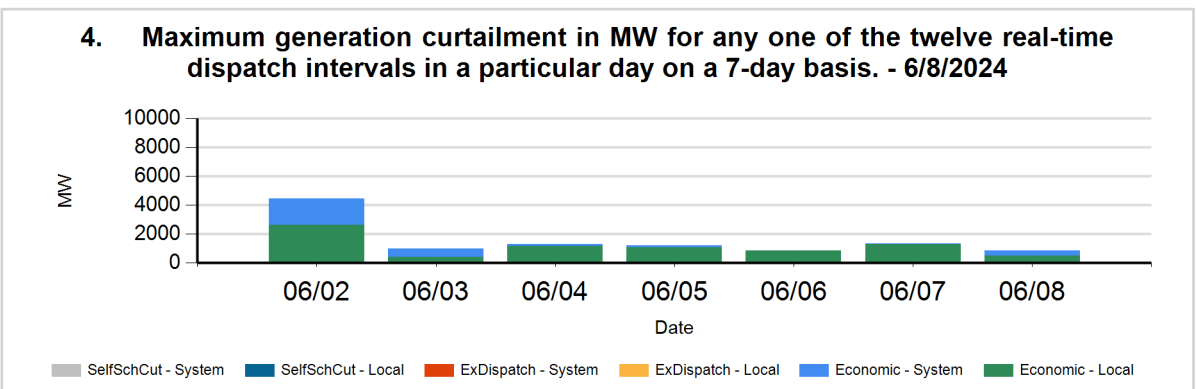
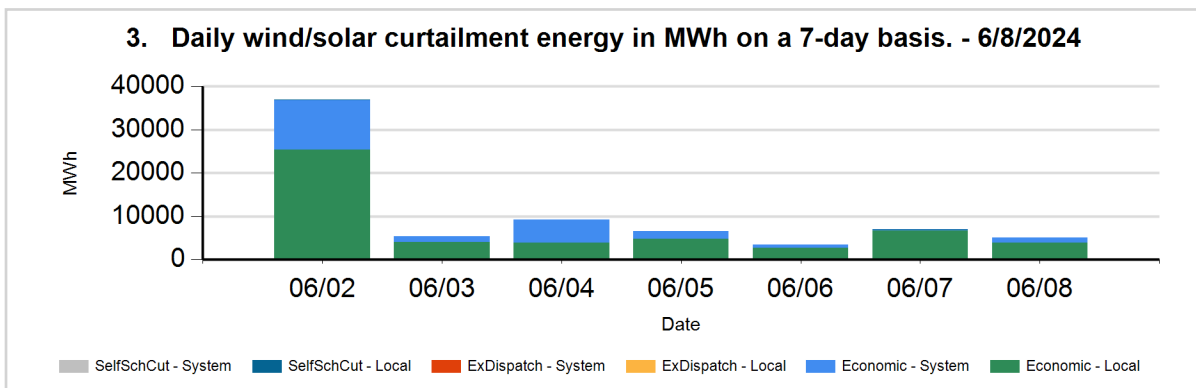
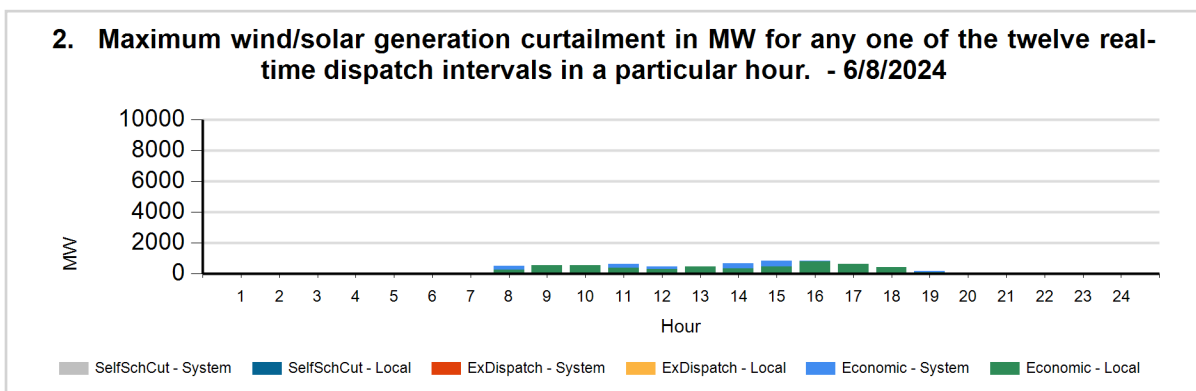
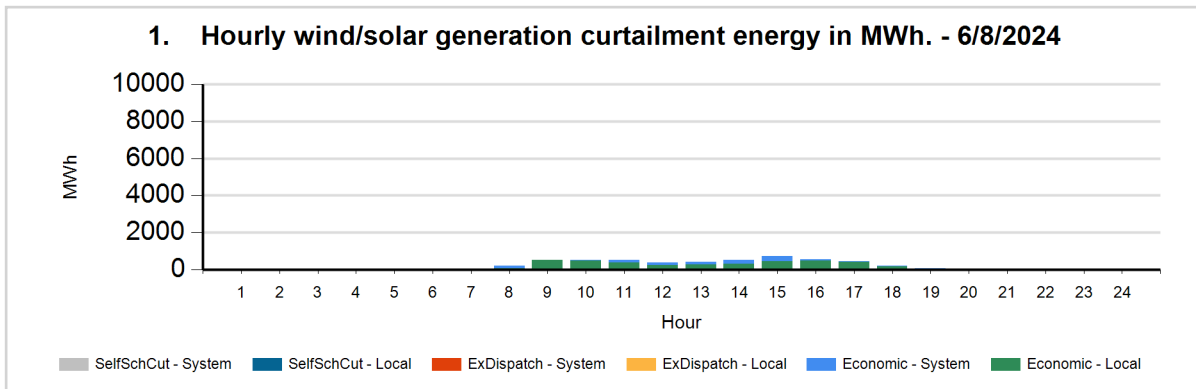
¹Only wind and solar resources can be reported in this manner because these resources have a forecast. Curtailment is defined as the difference between actual production and the forecast when actual production is less than the forecast.

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

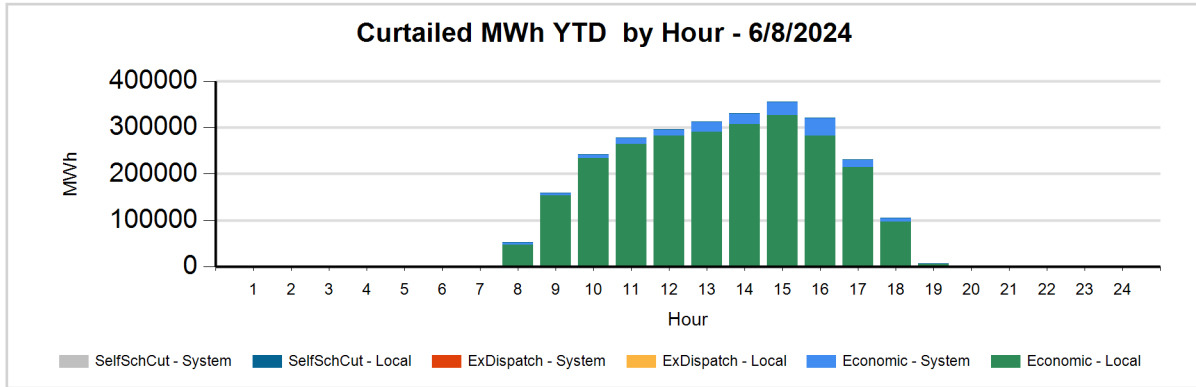
³Congestion occurs when available, least-cost energy cannot be delivered to some loads because transmission facilities do not have sufficient capacity to deliver the energy.

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

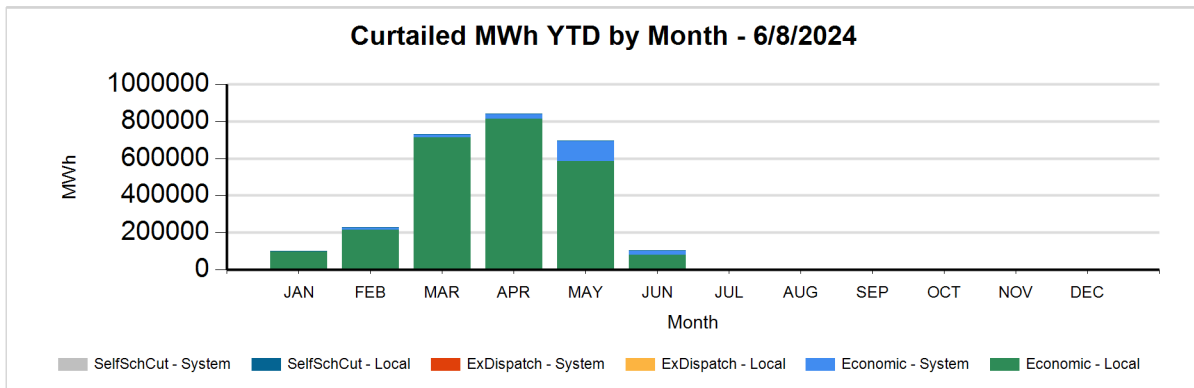
The following charts show the daily and 7-day wind and solar curtailment by category, if any.



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 - 6/8/2024
LocalEconomic	2,505,802
LocalSelfSchCut	1,572
SystemEconomic	191,016
TOTAL	2,698,390

Data used to produce hourly chart

DATE	HOUR	CURT TYPE	REASON	FUEL TYPE	CURTAILED MWH	CURTAILED MW
06/08	8	Economic	Local	SOLR	68	243
06/08	8	Economic	System	SOLR	74	126
06/08	8	Economic	System	WIND	53	143
06/08	9	Economic	Local	SOLR	384	438
06/08	9	Economic	Local	WIND	116	113
06/08	10	Economic	Local	SOLR	409	448
06/08	10	Economic	Local	WIND	88	100
06/08	10	Economic	System	SOLR	19	
06/08	10	Economic	System	WIND	16	
06/08	11	Economic	Local	SOLR	365	383
06/08	11	Economic	Local	WIND	10	
06/08	11	Economic	System	SOLR	98	134
06/08	11	Economic	System	WIND	51	100
06/08	12	Economic	Local	SOLR	242	298
06/08	12	Economic	System	SOLR	95	121
06/08	12	Economic	System	WIND	26	24
06/08	13	Economic	Local	SOLR	252	441
06/08	13	Economic	Local	WIND	5	23
06/08	13	Economic	System	SOLR	111	
06/08	13	Economic	System	WIND	29	
06/08	14	Economic	Local	SOLR	292	324
06/08	14	Economic	Local	WIND	4	
06/08	14	Economic	System	SOLR	118	145
06/08	14	Economic	System	WIND	104	203
06/08	15	Economic	Local	SOLR	407	475
06/08	15	Economic	Local	WIND	53	
06/08	15	Economic	System	SOLR	109	145
06/08	15	Economic	System	WIND	168	227
06/08	16	Economic	Local	SOLR	310	591
06/08	16	Economic	Local	WIND	170	201
06/08	16	Economic	System	SOLR	54	

06/08	16	Economic	System	WIND	6	32
06/08	17	Economic	Local	SOLR	254	408
06/08	17	Economic	Local	WIND	181	222
06/08	17	Economic	System	SOLR	1	
06/08	17	Economic	System	WIND	1	
06/08	18	Economic	Local	SOLR	136	298
06/08	18	Economic	Local	WIND	28	111
06/08	18	Economic	System	SOLR	24	
06/08	18	Economic	System	WIND	11	
06/08	19	Economic	Local	SOLR	38	64
06/08	19	Economic	System	SOLR	20	97
06/08	20	Economic	Local	SOLR	0	
06/08	20	Economic	System	SOLR	9	38

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.