

Wind and Solar Curtailment June 14, 2023

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.

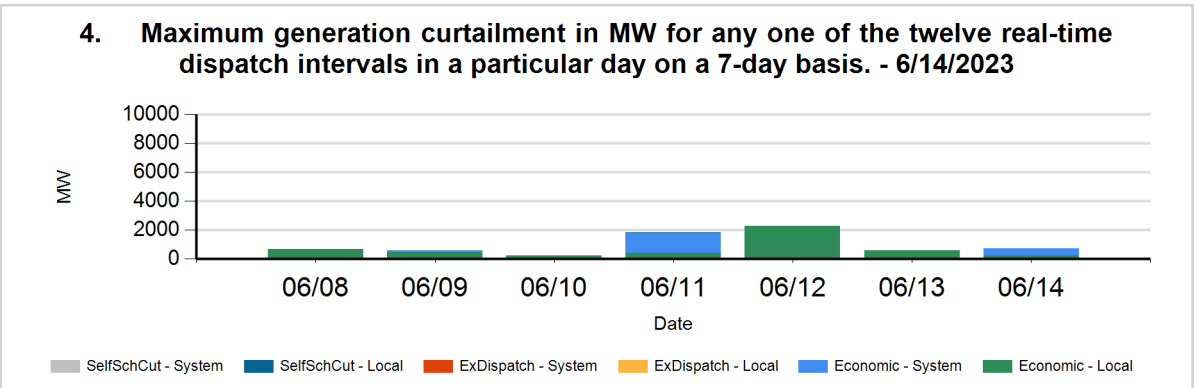
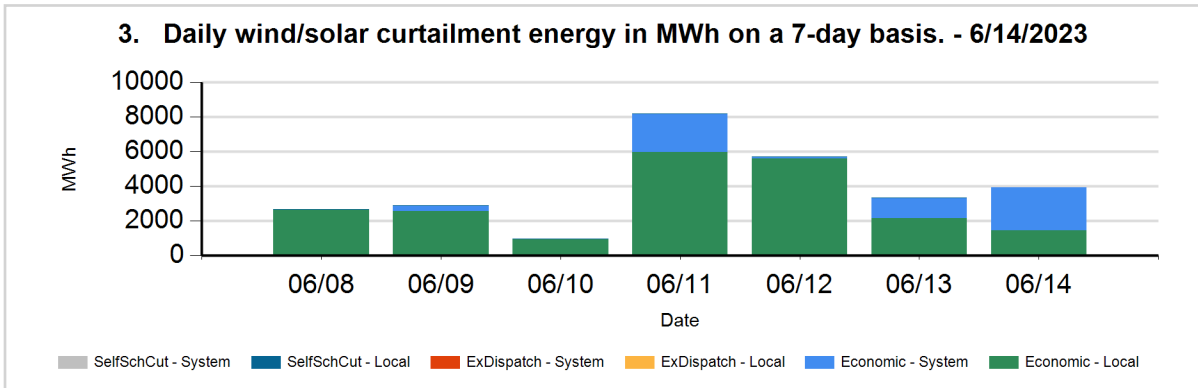
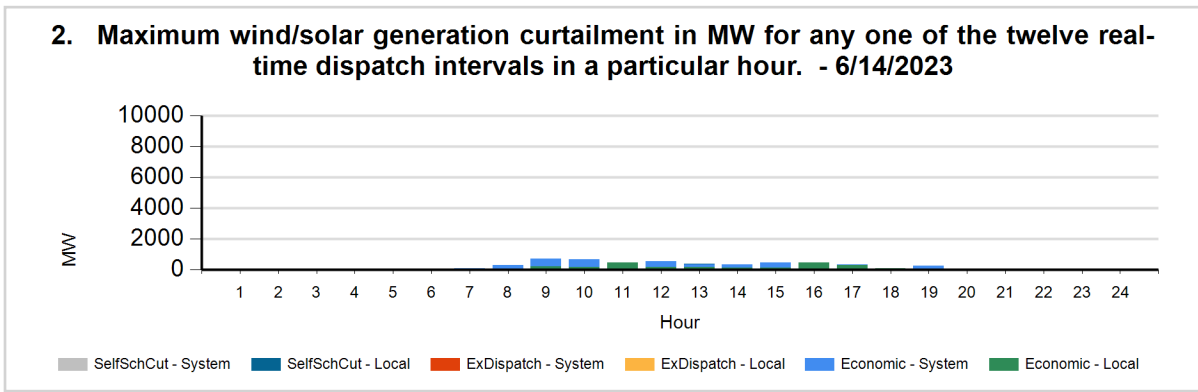
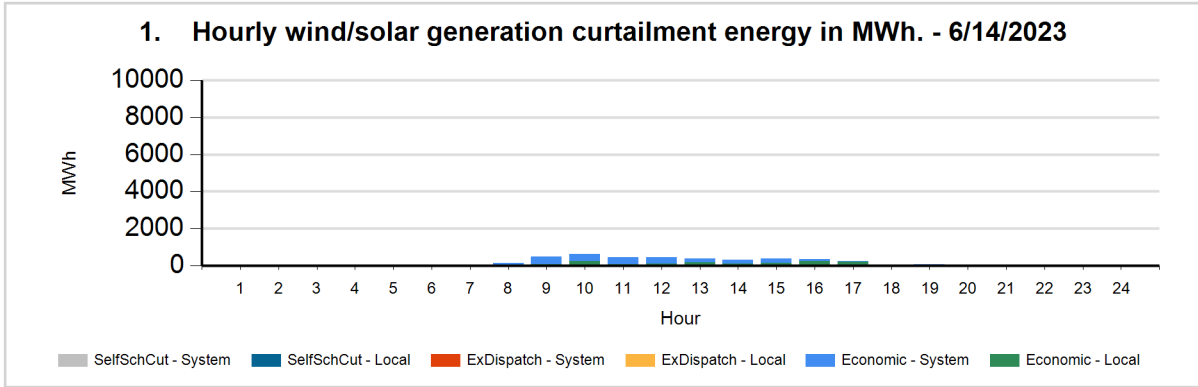
²The Renewables Watch report provides daily actual renewable production within the ISO grid. It is available at: <http://www.caiso.com/green/renewableswatch.html>.

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.

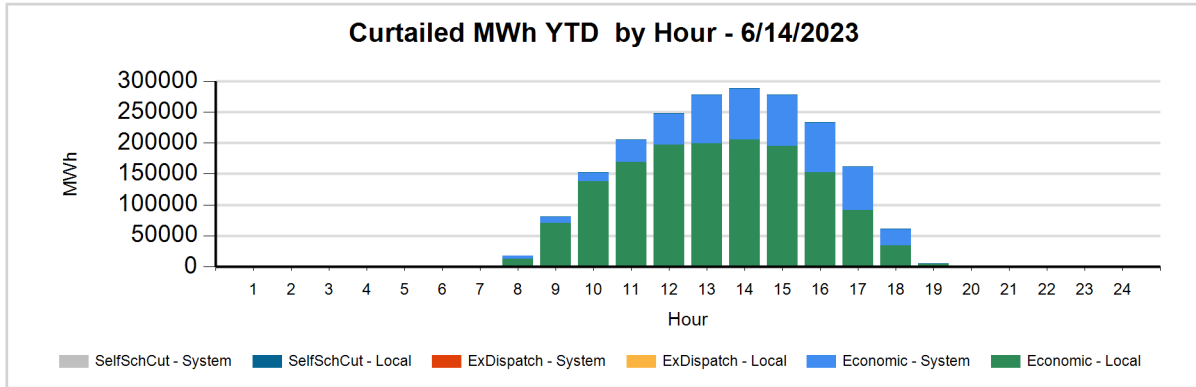
⁴For more information on oversupply conditions, please see:

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

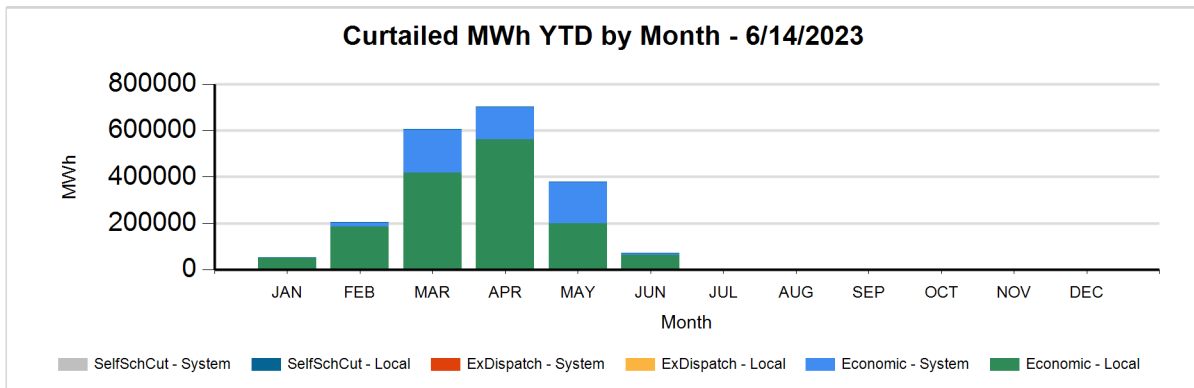
The following charts show the daily and 7-day wind and solar curtailment by category, if any.



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 - 6/14/2023
LocalEconomic	1,475,472
LocalSelfSchCut	768
SystemEconomic	542,541
TOTAL	2,018,781

Data used to produce hourly chart

DATE	HOUR	CURT TYPE	REASON	FUEL TYPE	CURTAILED MWH	CURTAILED MW
06/14	1	Economic	Local	WIND	1	
06/14	1	Economic	System	WIND	2	11
06/14	2	Economic	Local	WIND	4	4
06/14	3	Economic	Local	WIND	3	3
06/14	4	Economic	Local	WIND	3	4
06/14	5	Economic	Local	WIND	3	3
06/14	6	Economic	Local	WIND	6	8
06/14	7	Economic	Local	SOLR	1	4
06/14	7	Economic	Local	WIND	0	
06/14	7	Economic	System	SOLR	16	55
06/14	8	Economic	Local	SOLR	6	
06/14	8	Economic	System	SOLR	100	217
06/14	8	Economic	System	WIND	17	54
06/14	9	Economic	Local	SOLR	74	225
06/14	9	Economic	System	SOLR	327	385
06/14	9	Economic	System	WIND	93	113
06/14	10	Economic	Local	SOLR	206	170
06/14	10	Economic	Local	WIND	18	
06/14	10	Economic	System	SOLR	298	388
06/14	10	Economic	System	WIND	94	112
06/14	11	Economic	Local	SOLR	60	353
06/14	11	Economic	Local	WIND	9	107
06/14	11	Economic	System	SOLR	284	
06/14	11	Economic	System	WIND	88	
06/14	12	Economic	Local	SOLR	94	142
06/14	12	Economic	System	SOLR	313	335
06/14	12	Economic	System	WIND	47	56
06/14	13	Economic	Local	SOLR	158	171
06/14	13	Economic	System	SOLR	118	119
06/14	13	Economic	System	WIND	95	97
06/14	13	SelfSchCut	Local	SOLR	0	2

06/14	14	Economic	Local	SOLR	102	133
06/14	14	Economic	System	SOLR	108	106
06/14	14	Economic	System	WIND	92	101
06/14	15	Economic	Local	SOLR	130	108
06/14	15	Economic	System	SOLR	135	258
06/14	15	Economic	System	WIND	102	103
06/14	16	Economic	Local	SOLR	227	351
06/14	16	Economic	Local	WIND	9	95
06/14	16	Economic	System	SOLR	60	
06/14	16	Economic	System	WIND	41	
06/14	17	Economic	Local	SOLR	244	326
06/14	17	Economic	System	SOLR	6	3
06/14	18	Economic	Local	SOLR	36	86
06/14	18	Economic	Local	WIND	1	
06/14	18	Economic	System	SOLR	3	
06/14	19	Economic	Local	SOLR	1	2
06/14	19	Economic	Local	WIND	3	
06/14	19	Economic	System	SOLR	56	186
06/14	19	Economic	System	WIND	12	66
06/14	20	Economic	Local	WIND	6	8
06/14	20	Economic	System	SOLR	0	3
06/14	21	Economic	Local	WIND	6	14
06/14	21	Economic	System	SOLR	0	1
06/14	22	Economic	Local	WIND	6	7
06/14	23	Economic	Local	WIND	5	6
06/14	23	Economic	System	WIND	7	39
06/14	24	Economic	Local	WIND	5	5

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.



California ISO