

Wind and Solar Curtailment June 13, 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.

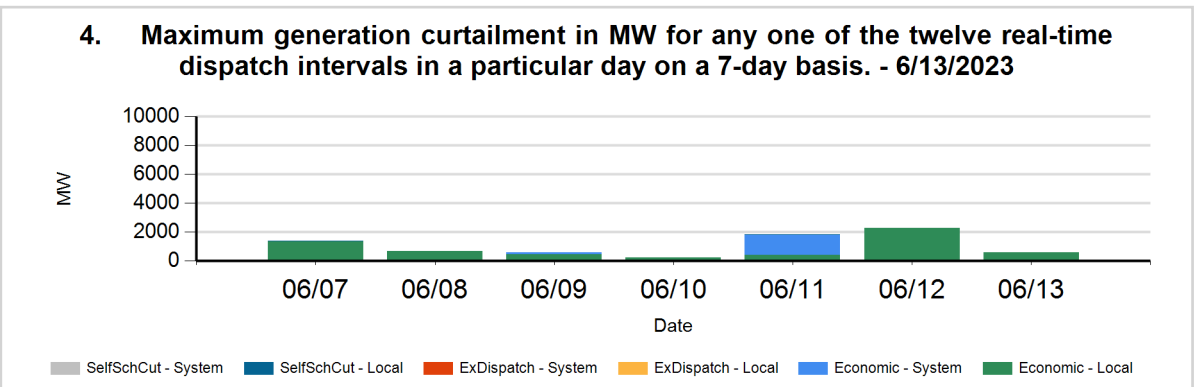
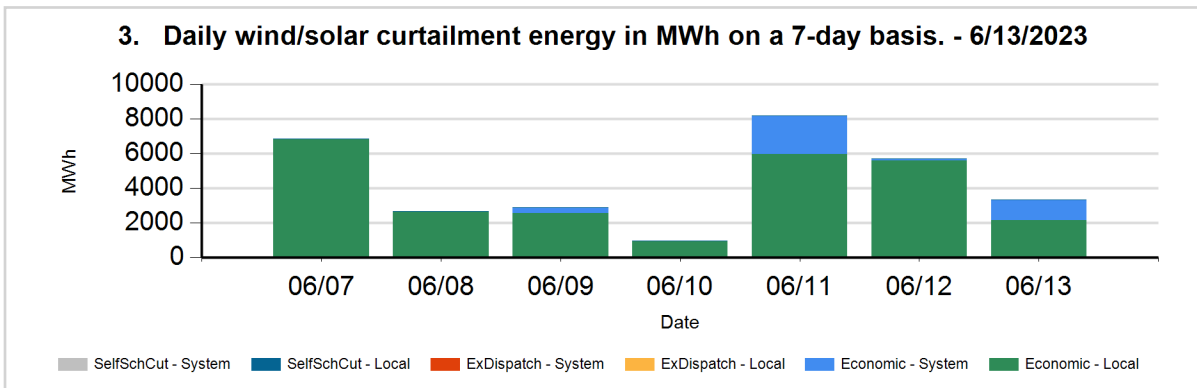
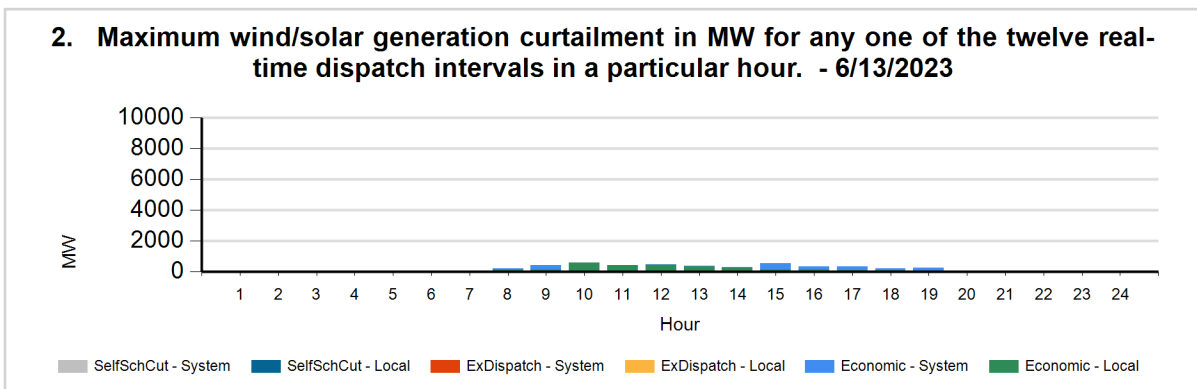
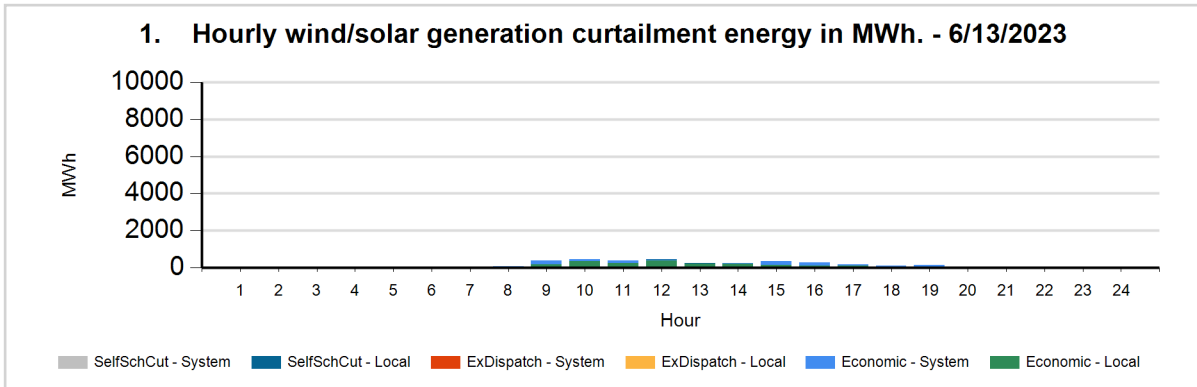
²The Renewables Watch report provides daily actual renewable production within the ISO grid. It is available at: <http://www.caiso.com/green/renewableswatch.html>.

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.

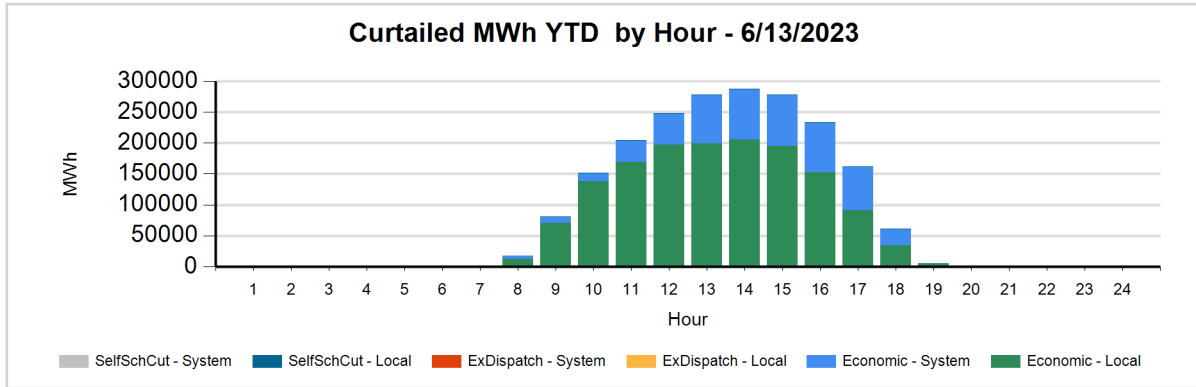
⁴For more information on oversupply conditions, please see:

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

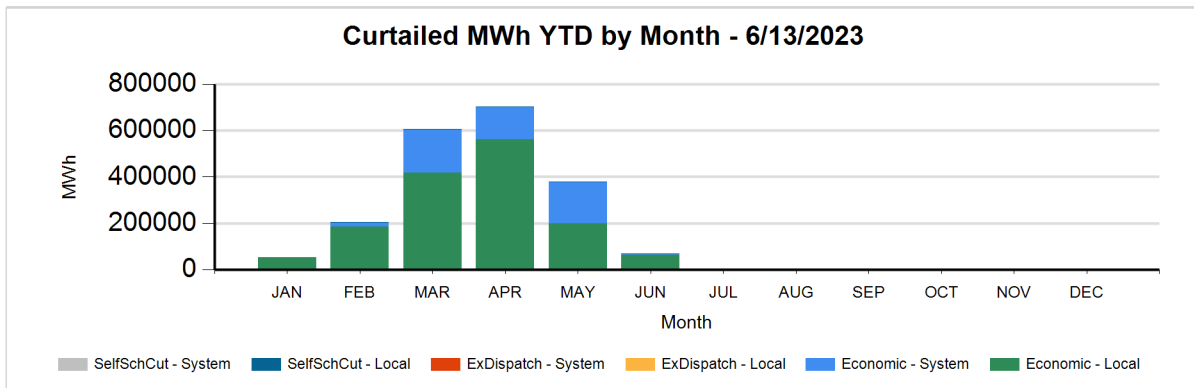
The following charts show the daily and 7-day wind and solar curtailment by category, if any.



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 - 6/13/2023
LocalEconomic	1,474,046
LocalSelfSchCut	767
SystemEconomic	540,029
TOTAL	2,014,842

Data used to produce hourly chart

DATE	HOUR	CURT TYPE	REASON	FUEL TYPE	CURTAILED MWH	CURTAILED MW
06/13	1	Economic	Local	WIND	7	8
06/13	2	Economic	Local	WIND	8	8
06/13	3	Economic	Local	WIND	7	8
06/13	4	Economic	Local	WIND	7	9
06/13	5	Economic	Local	WIND	8	8
06/13	6	Economic	Local	WIND	7	7
06/13	6	Economic	System	SOLR	1	12
06/13	6	Economic	System	WIND	2	28
06/13	7	Economic	Local	SOLR	2	23
06/13	7	Economic	Local	WIND	8	8
06/13	7	Economic	System	SOLR	2	
06/13	8	Economic	Local	SOLR	45	113
06/13	8	Economic	Local	WIND	7	6
06/13	8	Economic	System	SOLR	14	84
06/13	9	Economic	Local	SOLR	149	93
06/13	9	Economic	Local	WIND	15	8
06/13	9	Economic	System	SOLR	149	220
06/13	9	Economic	System	WIND	56	80
06/13	10	Economic	Local	SOLR	317	538
06/13	10	Economic	Local	WIND	18	26
06/13	10	Economic	System	SOLR	111	
06/13	10	Economic	System	WIND	17	
06/13	11	Economic	Local	SOLR	242	417
06/13	11	Economic	Local	WIND	11	16
06/13	11	Economic	System	SOLR	128	
06/13	11	Economic	System	WIND	4	
06/13	12	Economic	Local	SOLR	374	457
06/13	12	Economic	Local	WIND	14	15
06/13	12	Economic	System	SOLR	38	
06/13	12	Economic	System	WIND	2	
06/13	12	SelfSchCut	Local	SOLR	2	2

06/13	13	Economic	Local	SOLR	230	358
06/13	13	Economic	Local	WIND	5	
06/13	13	Economic	System	SOLR	4	4
06/13	13	Economic	System	WIND	2	5
06/13	13	SelfSchCut	Local	SOLR	1	
06/13	14	Economic	Local	SOLR	229	293
06/13	14	Economic	Local	WIND	3	9
06/13	14	Economic	System	SOLR	14	4
06/13	14	Economic	System	WIND	9	
06/13	14	SelfSchCut	Local	SOLR	0	
06/13	15	Economic	Local	SOLR	139	113
06/13	15	Economic	System	SOLR	160	349
06/13	15	Economic	System	WIND	51	60
06/13	16	Economic	Local	SOLR	108	122
06/13	16	Economic	Local	WIND	7	1
06/13	16	Economic	System	SOLR	107	141
06/13	16	Economic	System	WIND	43	68
06/13	17	Economic	Local	SOLR	74	82
06/13	17	Economic	Local	WIND	11	11
06/13	17	Economic	System	SOLR	67	157
06/13	17	Economic	System	WIND	22	67
06/13	18	Economic	Local	SOLR	30	55
06/13	18	Economic	Local	WIND	10	12
06/13	18	Economic	System	SOLR	51	109
06/13	18	Economic	System	WIND	8	30
06/13	19	Economic	Local	SOLR	0	
06/13	19	Economic	Local	WIND	12	13
06/13	19	Economic	System	SOLR	100	165
06/13	19	Economic	System	WIND	25	48
06/13	20	Economic	Local	SOLR	1	
06/13	20	Economic	Local	WIND	9	10
06/13	20	Economic	System	SOLR	3	10
06/13	21	Economic	Local	WIND	6	7
06/13	21	Economic	System	SOLR	0	1

06/13	22	Economic	Local	WIND	4	4
06/13	23	Economic	Local	WIND	4	5
06/13	24	Economic	Local	WIND	3	4

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.