

Wind and Solar Curtailment June 27, 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.

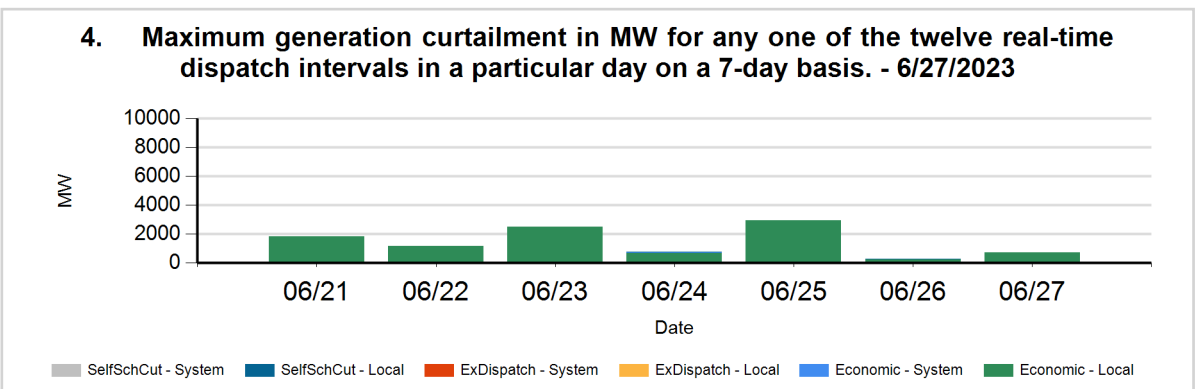
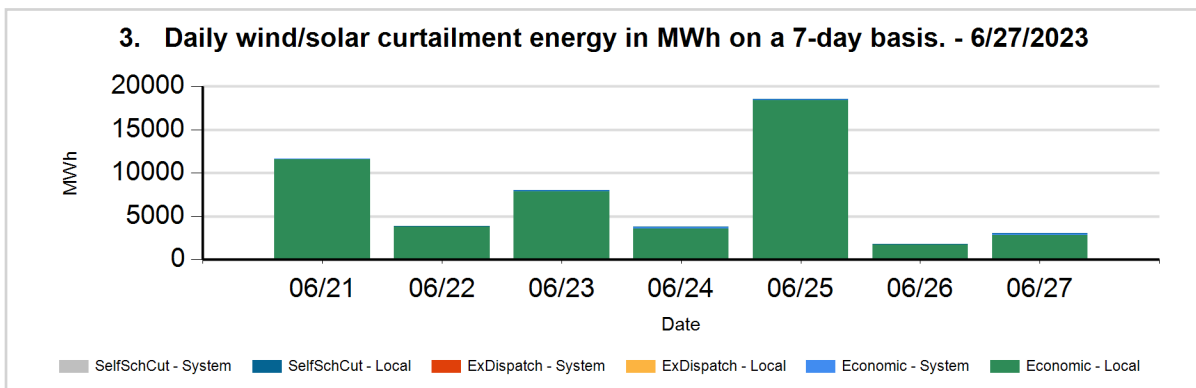
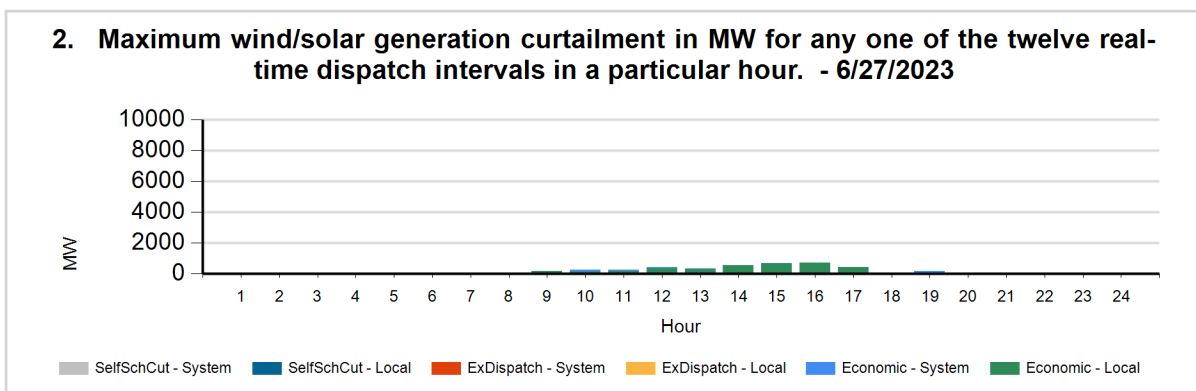
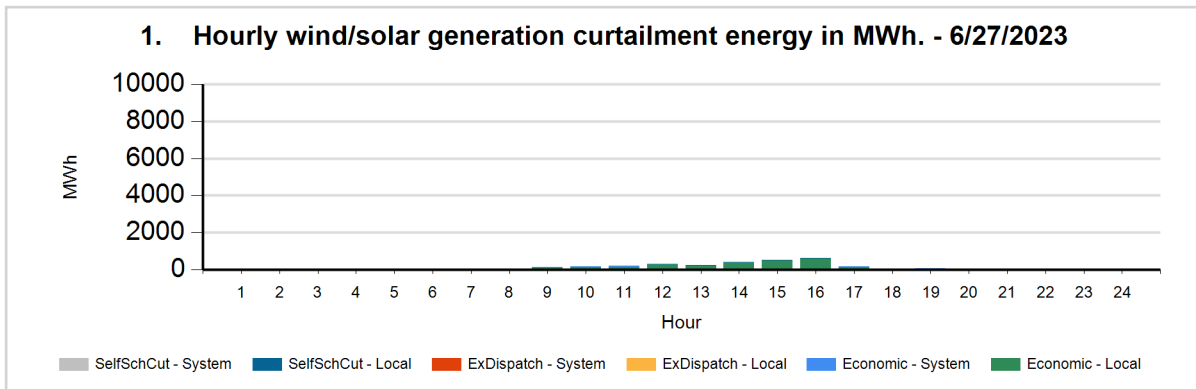
¹Only wind and solar resources can be reported in this manner because these resources have a forecast. Curtailment is defined as the difference between actual production and the forecast when actual production is less than the forecast.

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

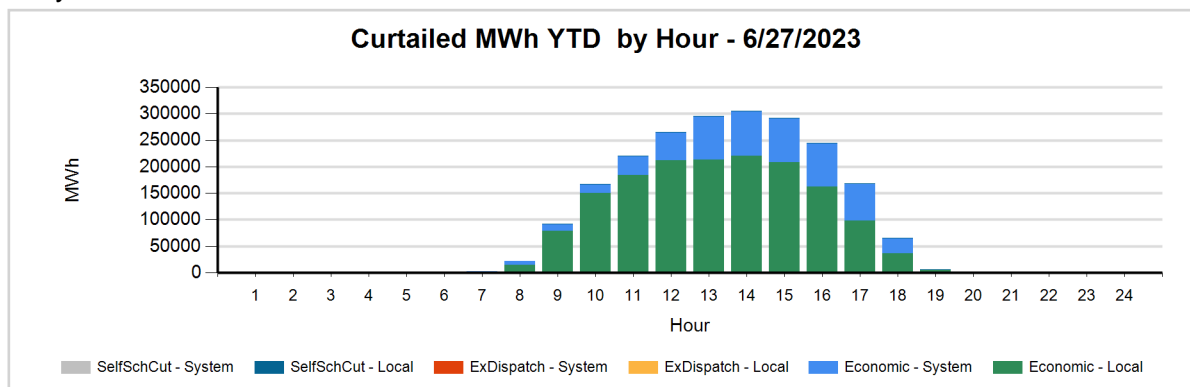
³Congestion occurs when available, least-cost energy cannot be delivered to some loads because transmission facilities do not have sufficient capacity to deliver the energy.

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

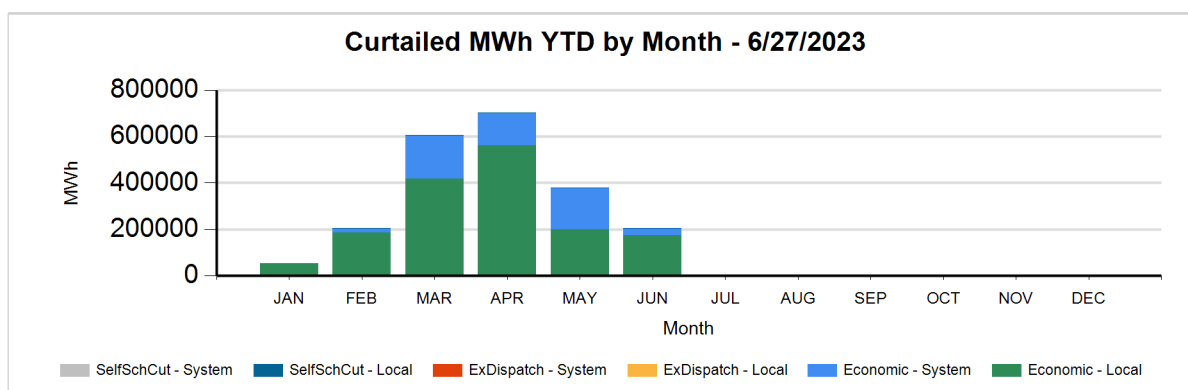
The following charts show the daily and 7-day wind and solar curtailment by category, if any.



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 - 6/27/2023
LocalEconomic	1,586,300
LocalSelfSchCut	843
SystemEconomic	564,312
TOTAL	2,151,455

Data used to produce hourly chart

DATE	HOUR	CURT TYPE	REASON	FUEL TYPE	CURTAILED MWH	CURTAILED MW
06/27	1	Economic	Local	WIND	6	7
06/27	2	Economic	Local	WIND	7	7
06/27	3	Economic	Local	WIND	6	6
06/27	4	Economic	Local	WIND	6	6
06/27	5	Economic	Local	WIND	5	6
06/27	6	Economic	Local	WIND	6	6
06/27	7	Economic	Local	SOLR	9	33
06/27	7	Economic	Local	WIND	5	7
06/27	7	Economic	System	SOLR	6	9
06/27	8	Economic	Local	SOLR	22	40
06/27	8	Economic	Local	WIND	5	5
06/27	8	Economic	System	SOLR	3	6
06/27	9	Economic	Local	SOLR	129	145
06/27	9	Economic	Local	WIND	4	5
06/27	9	Economic	System	WIND	1	
06/27	10	Economic	Local	SOLR	122	64
06/27	10	Economic	Local	WIND	27	53
06/27	10	Economic	System	SOLR	32	111
06/27	11	Economic	Local	SOLR	134	147
06/27	11	Economic	Local	WIND	8	17
06/27	11	Economic	System	SOLR	61	98
06/27	11	Economic	System	WIND	2	
06/27	12	Economic	Local	SOLR	186	181
06/27	12	Economic	Local	WIND	82	141
06/27	12	Economic	System	SOLR	50	90
06/27	12	Economic	System	WIND	1	
06/27	13	Economic	Local	SOLR	123	171
06/27	13	Economic	Local	WIND	107	141
06/27	13	Economic	System	WIND	2	7
06/27	13	SelfSchCut	Local	SOLR	1	
06/27	14	Economic	Local	SOLR	220	341

06/27	14	Economic	Local	WIND	203	208
06/27	14	Economic	System	WIND	2	
06/27	15	Economic	Local	SOLR	269	418
06/27	15	Economic	Local	WIND	229	236
06/27	15	Economic	System	WIND	3	
06/27	15	SelfSchCut	Local	SOLR	1	2
06/27	16	Economic	Local	SOLR	364	437
06/27	16	Economic	Local	WIND	262	277
06/27	16	Economic	System	WIND	4	
06/27	16	SelfSchCut	Local	SOLR	1	
06/27	17	Economic	Local	SOLR	90	129
06/27	17	Economic	Local	WIND	86	286
06/27	17	Economic	System	SOLR	0	
06/27	17	Economic	System	WIND	3	
06/27	18	Economic	Local	SOLR	19	41
06/27	18	Economic	Local	WIND	6	6
06/27	19	Economic	Local	SOLR	17	
06/27	19	Economic	Local	WIND	7	
06/27	19	Economic	System	SOLR	26	115
06/27	19	Economic	System	WIND	4	40
06/27	20	Economic	Local	WIND	8	8
06/27	21	Economic	Local	WIND	7	7
06/27	22	Economic	Local	WIND	6	6
06/27	23	Economic	Local	WIND	6	6
06/27	24	Economic	Local	WIND	8	21

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.

