

Wind and Solar Curtailment June 07, 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.

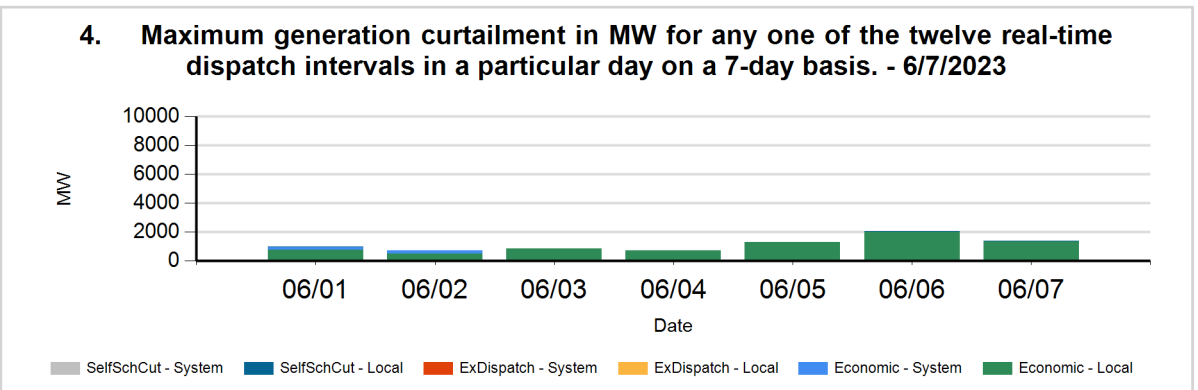
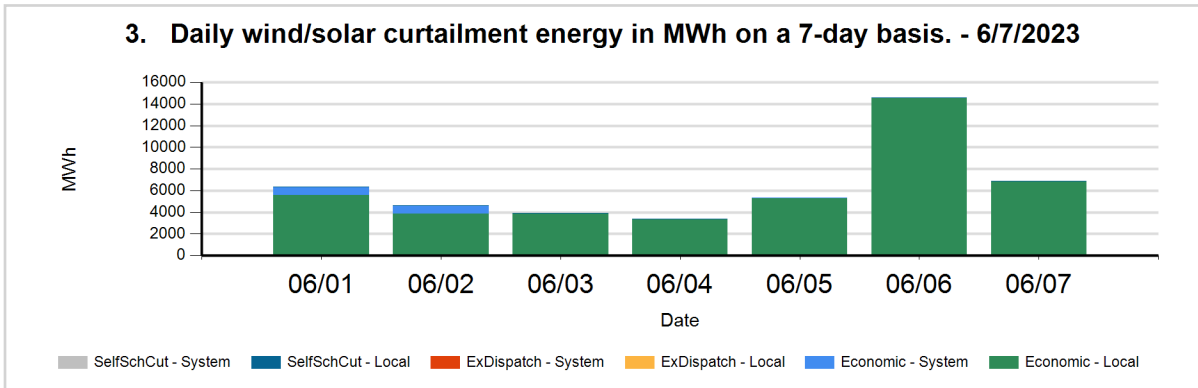
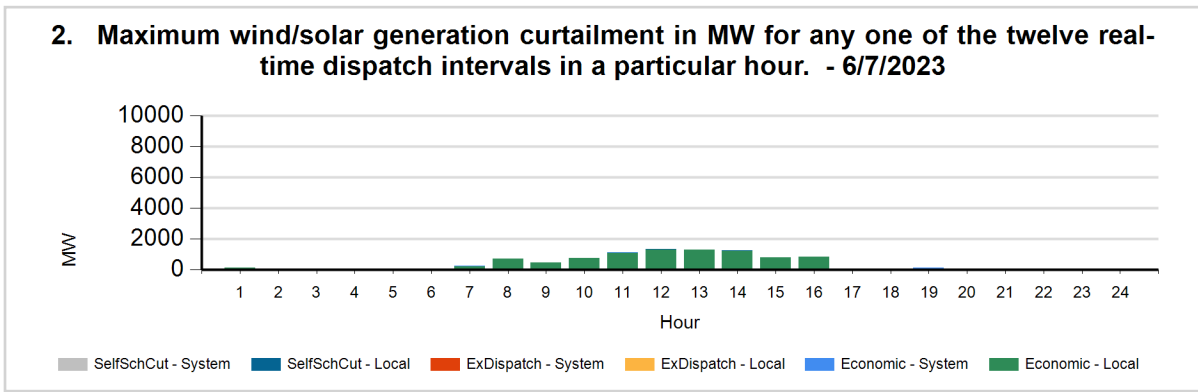
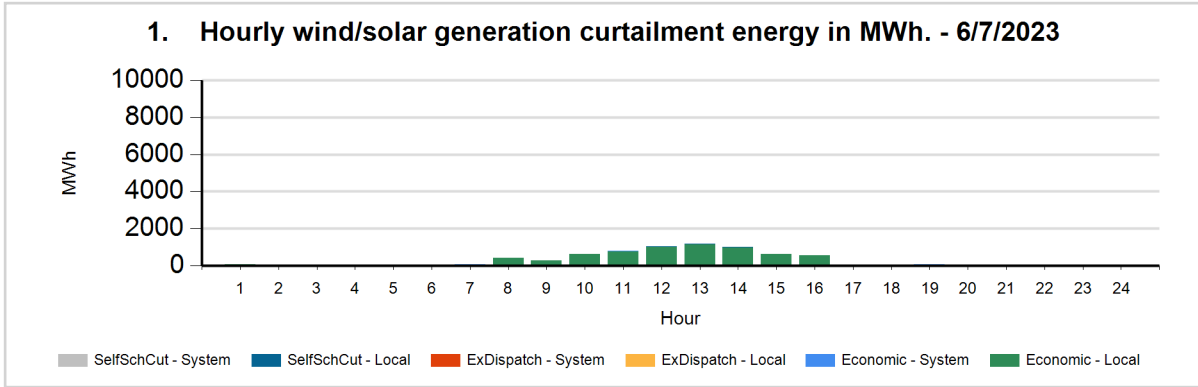
¹Only wind and solar resources can be reported in this manner because these resources have a forecast. Curtailment is defined as the difference between actual production and the forecast when actual production is less than the forecast.

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

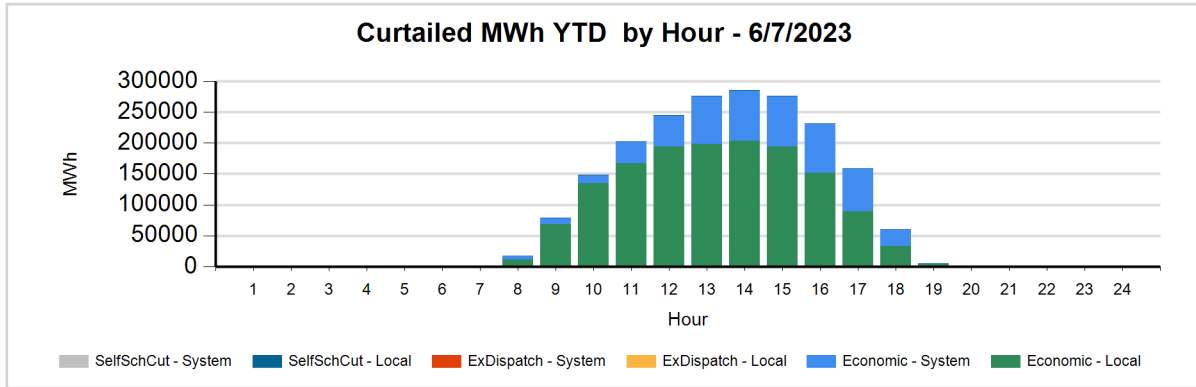
³Congestion occurs when available, least-cost energy cannot be delivered to some loads because transmission facilities do not have sufficient capacity to deliver the energy.

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

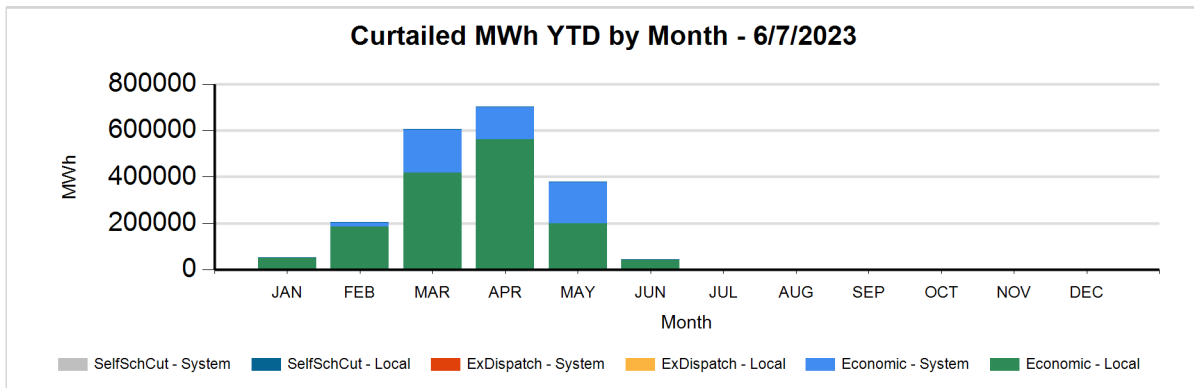
The following charts show the daily and 7-day wind and solar curtailment by category, if any.



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 - 6/7/2023
LocalEconomic	1,454,157
LocalSelfSchCut	660
SystemEconomic	536,281
TOTAL	1,991,098

Data used to produce hourly chart

DATE	HOUR	CURT TYPE	REASON	FUEL TYPE	CURTAILED MWH	CURTAILED MW
06/07	1	Economic	Local	WIND	50	133
06/07	2	Economic	Local	WIND	18	19
06/07	3	Economic	Local	WIND	18	18
06/07	4	Economic	Local	WIND	17	18
06/07	5	Economic	Local	WIND	15	16
06/07	6	Economic	Local	SOLR	1	
06/07	6	Economic	Local	WIND	11	
06/07	6	Economic	System	WIND	4	29
06/07	7	Economic	Local	SOLR	65	225
06/07	7	Economic	System	SOLR	3	19
06/07	8	Economic	Local	SOLR	398	722
06/07	9	Economic	Local	SOLR	277	391
06/07	9	Economic	Local	WIND	5	56
06/07	9	Economic	System	SOLR	0	
06/07	10	Economic	Local	SOLR	567	687
06/07	10	Economic	Local	WIND	50	54
06/07	11	Economic	Local	SOLR	715	1061
06/07	11	Economic	Local	WIND	61	75
06/07	11	Economic	System	SOLR	4	
06/07	11	Economic	System	WIND	1	6
06/07	12	Economic	Local	SOLR	1043	1323
06/07	12	Economic	Local	WIND	6	23
06/07	12	SelfSchCut	Local	SOLR	1	1
06/07	13	Economic	Local	SOLR	1012	1037
06/07	13	Economic	Local	WIND	173	246
06/07	13	SelfSchCut	Local	SOLR	1	
06/07	14	Economic	Local	SOLR	927	1133
06/07	14	Economic	Local	WIND	75	95
06/07	14	SelfSchCut	Local	SOLR	1	4
06/07	15	Economic	Local	SOLR	525	775
06/07	15	Economic	Local	WIND	105	

06/07	15	SelfSchCut	Local	SOLR	0	
06/07	16	Economic	Local	SOLR	564	810
06/07	17	Economic	Local	SOLR	11	28
06/07	17	Economic	System	SOLR	0	
06/07	18	Economic	Local	SOLR	14	35
06/07	18	Economic	System	SOLR	0	
06/07	19	Economic	Local	WIND	7	
06/07	19	Economic	System	SOLR	41	113
06/07	19	Economic	System	WIND	7	17
06/07	20	Economic	Local	WIND	17	19
06/07	21	Economic	Local	WIND	18	19
06/07	22	Economic	Local	WIND	13	18
06/07	23	Economic	Local	WIND	11	17
06/07	24	Economic	Local	WIND	16	18

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.