

Wind and Solar Curtailment June 05, 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.

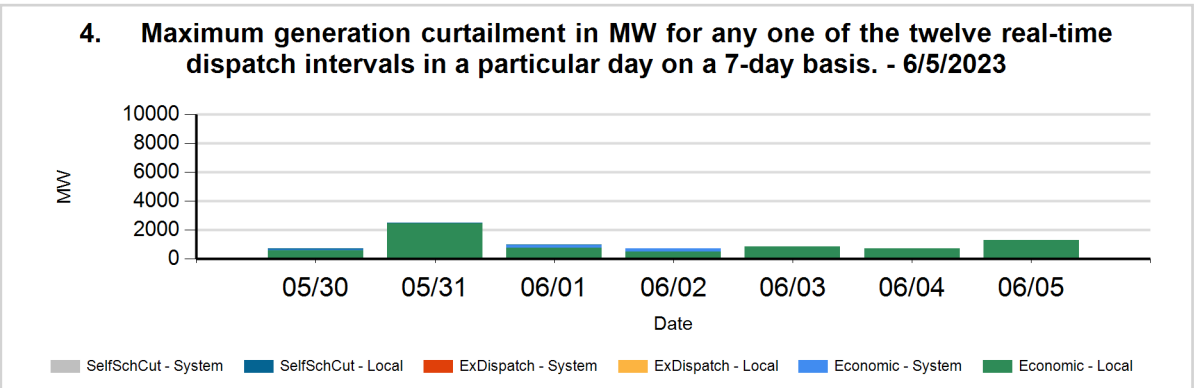
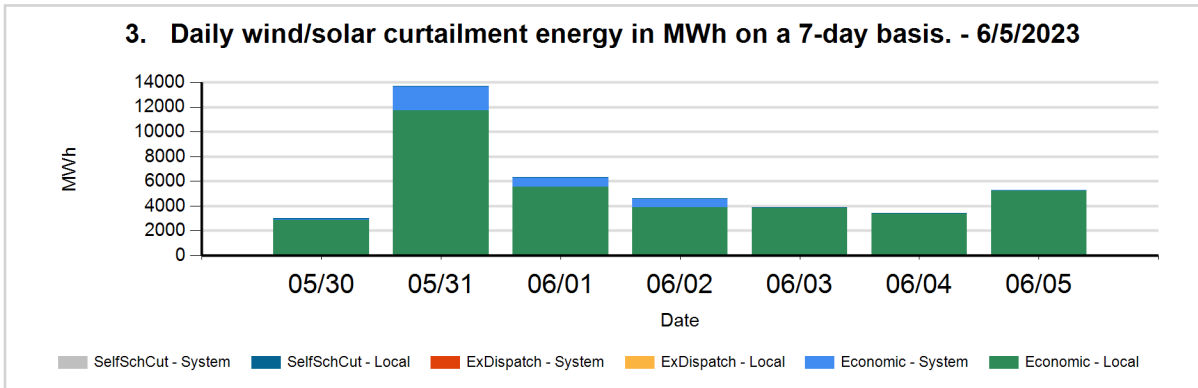
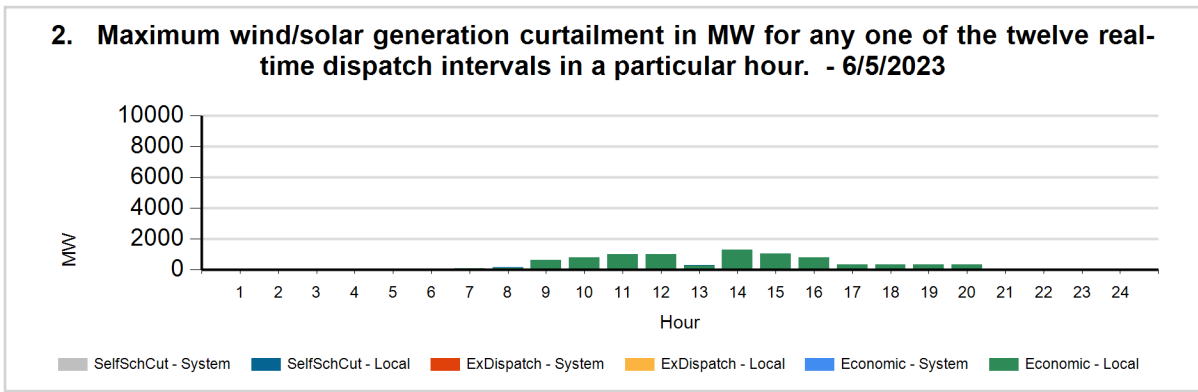
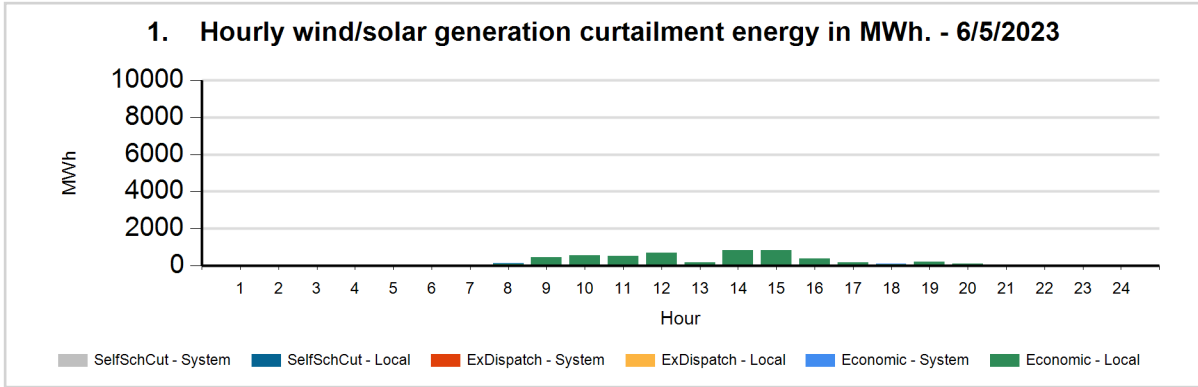
¹Only wind and solar resources can be reported in this manner because these resources have a forecast. Curtailment is defined as the difference between actual production and the forecast when actual production is less than the forecast.

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

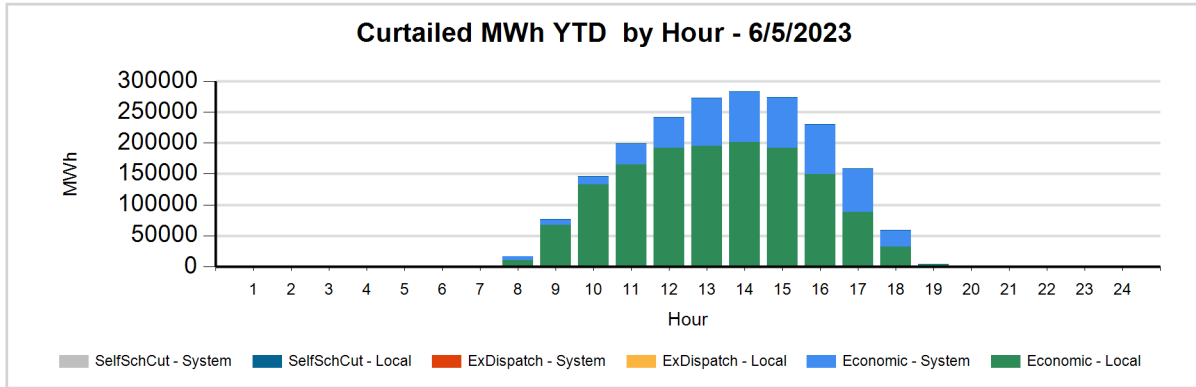
³Congestion occurs when available, least-cost energy cannot be delivered to some loads because transmission facilities do not have sufficient capacity to deliver the energy.

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

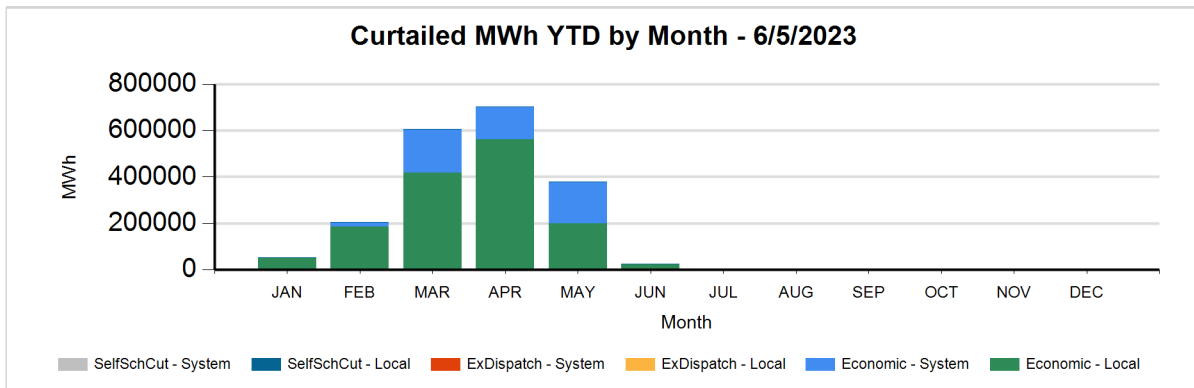
The following charts show the daily and 7-day wind and solar curtailment by category, if any.



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 - 6/5/2023
LocalEconomic	1,432,826
LocalSelfSchCut	652
SystemEconomic	536,197
TOTAL	1,969,675

Data used to produce hourly chart

DATE	HOUR	CURT TYPE	REASON	FUEL TYPE	CURTAILED MWH	CURTAILED MW
06/05	1	Economic	Local	WIND	17	18
06/05	2	Economic	Local	WIND	16	18
06/05	3	Economic	Local	WIND	16	17
06/05	4	Economic	Local	WIND	17	18
06/05	5	Economic	Local	WIND	18	18
06/05	6	Economic	Local	WIND	18	18
06/05	7	Economic	Local	SOLR	18	70
06/05	7	Economic	Local	WIND	18	18
06/05	8	Economic	Local	SOLR	103	127
06/05	8	Economic	Local	WIND	20	21
06/05	8	Economic	System	SOLR	3	5
06/05	9	Economic	Local	SOLR	415	617
06/05	9	Economic	Local	WIND	20	20
06/05	10	Economic	Local	SOLR	544	750
06/05	10	Economic	Local	WIND	20	21
06/05	11	Economic	Local	SOLR	500	994
06/05	11	Economic	Local	WIND	20	21
06/05	12	Economic	Local	SOLR	660	969
06/05	12	Economic	Local	WIND	21	20
06/05	13	Economic	Local	SOLR	153	270
06/05	13	Economic	Local	WIND	21	21
06/05	13	SelfSchCut	Local	SOLR	0	1
06/05	14	Economic	Local	SOLR	498	836
06/05	14	Economic	Local	WIND	341	450
06/05	15	Economic	Local	SOLR	548	681
06/05	15	Economic	Local	WIND	262	354
06/05	16	Economic	Local	SOLR	204	566
06/05	16	Economic	Local	WIND	184	208
06/05	17	Economic	Local	SOLR	53	229
06/05	17	Economic	Local	WIND	100	99
06/05	18	Economic	Local	SOLR	44	290

06/05	18	Economic	Local	WIND	56	21
06/05	18	Economic	System	SOLR	4	
06/05	19	Economic	Local	SOLR	163	308
06/05	19	Economic	Local	WIND	33	21
06/05	20	Economic	Local	SOLR	39	139
06/05	20	Economic	Local	WIND	67	178
06/05	21	Economic	Local	WIND	19	19
06/05	22	Economic	Local	WIND	18	18
06/05	23	Economic	Local	WIND	19	19
06/05	24	Economic	Local	WIND	17	19

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.