

Wind and Solar Curtailment June 20, 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 oversupply.
- 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.

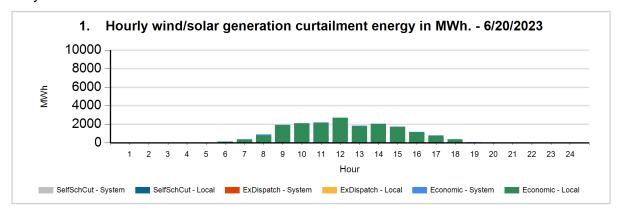
²The Renewables Watch report provides daily actual renewable production within the ISO grid. It is available at: http://www.caiso.com/green/renewableswatch.html.

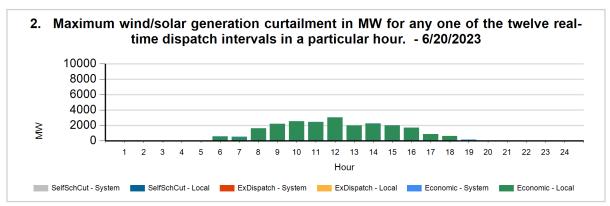
³Congestion occurs when available, least-cost energy cannot be delivered to some loads because transmission facilities do not have sufficient capacity to deliver the energy.

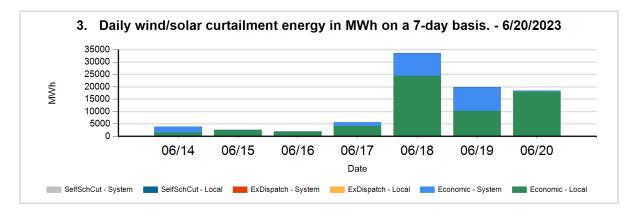
For more information on oversupply conditions, please see: https://www.caiso.com/Documents/FlexibleResourcesHelpRenewables FastFacts.pdf

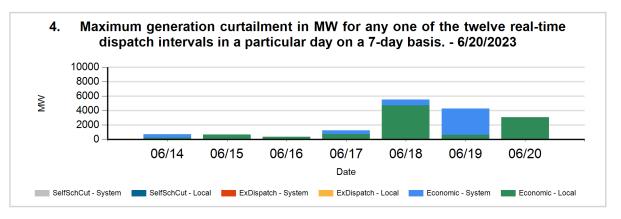


The following charts show the daily and 7-day wind and solar curtailment by category, if any.



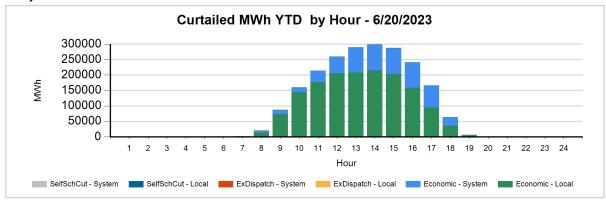




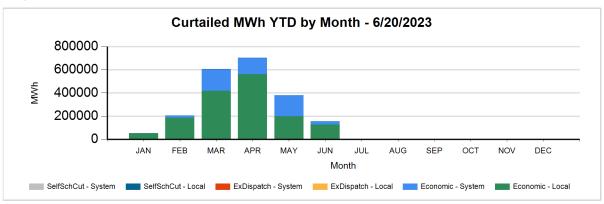




The following charts show hourly year to date wind and solar curtailment by category, if any.



The following charts show monthly year to date wind and solar curtailment by category, if any.



TYPE	YTD CURTAILED MWH - 6/20/2023
LocalEconomic	1,536,617
LocalSelfSchCut	803
SystemEconomic	563,490
TOTAL	2,100,909



Data used to produce hourly chart

DATE	HOU R	CURT TYPE	REASON	FUEL TYPE	CURTAILED MWH	CURTAILED MW
06/20	1	Economic	Local	WIND	6	9
06/20	2	Economic	Local	WIND	3	7
06/20	6	Economic	Local	WIND	118	556
06/20	6	Economic	System	SOLR	4	. 8
06/20	6	Economic	System	WIND	6	
06/20	7	Economic	Local	SOLR	65	1
06/20	7	Economic	Local	WIND	277	441
06/20	7	Economic	System	SOLR	25	80
06/20	8	Economic	Local	SOLR	553	1598
06/20	8	Economic	Local	WIND	225	
06/20	8	Economic	System	SOLR	123	
06/20	9	Economic	Local	SOLR	1846	2139
06/20	9	Economic	Local	WIND	61	
06/20	9	Economic	System	SOLR	26	
06/20	9	Economic	System	WIND	13	
06/20	10	Economic	Local	SOLR	2046	2474
06/20	10	Economic	Local	WIND	73	
06/20	10	Economic	System	WIND	0	
06/20	11	Economic	Local	SOLR	2114	2382
06/20	11	Economic	Local	WIND	72	73
06/20	11	Economic	System	WIND	4	4
06/20	11	SelfSchCut	Local	SOLR	2	
06/20	12	Economic	Local	SOLR	2620	2956
06/20	12	Economic	Local	WIND	83	88
06/20	12	SelfSchCut	Local	SOLR	1	
06/20	13	Economic	Local	SOLR	1676	1923
06/20	13	Economic	Local	WIND	77	67
06/20	13	Economic	System	SOLR	60	
06/20	13	SelfSchCut	Local	SOLR	4	
06/20	14	Economic	Local	SOLR	1888	2098
06/20	14	Economic	Local	WIND	138	156



	14	SOLR	System	Economic	14	06/20
	6	WIND	System	Economic	14	06/20
8	6	SOLR	Local	SelfSchCut	14	06/20
1838	1549	SOLR	Local	Economic	15	06/20
155	128	WIND	Local	Economic	15	06/20
	43	SOLR	System	Economic	15	06/20
	11	WIND	System	Economic	15	06/20
10	4	SOLR	Local	SelfSchCut	15	06/20
1585	1070	SOLR	Local	Economic	16	06/20
119	100	WIND	Local	Economic	16	06/20
	3	SOLR	System	Economic	16	06/20
	3	WIND	System	Economic	16	06/20
783	691	SOLR	Local	Economic	17	06/20
90	84	WIND	Local	Economic	17	06/20
	5	SOLR	System	Economic	17	06/20
	3	WIND	System	Economic	17	06/20
576	358	SOLR	Local	Economic	18	06/20
29	3	WIND	Local	Economic	18	06/20
66	44	SOLR	Local	Economic	19	06/20
85	26	SOLR	System	Economic	19	06/20
30	3	SOLR	System	Economic	20	06/20
	0	SOLR	Local	Economic	21	06/20
8	3	WIND	Local	Economic	21	06/20
	0	SOLR	System	Economic	21	06/20
9	8	WIND	Local	Economic	22	06/20
9	8	WIND	Local	Economic	23	06/20
9	8	WIND	Local	Economic	24	06/20

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.

