

Wind and Solar Curtailment June 19, 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.

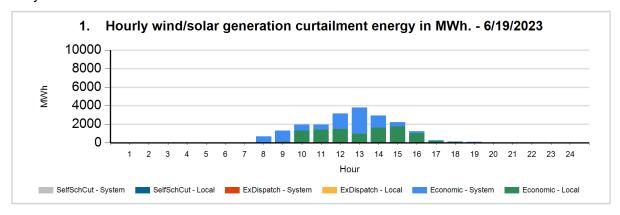
²The Renewables Watch report provides daily actual renewable production within the ISO grid. It is available at: http://www.caiso.com/green/renewableswatch.html.

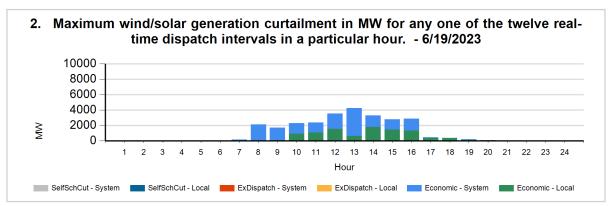
³Congestion occurs when available, least-cost energy cannot be delivered to some loads because transmission facilities do not have sufficient capacity to deliver the energy.

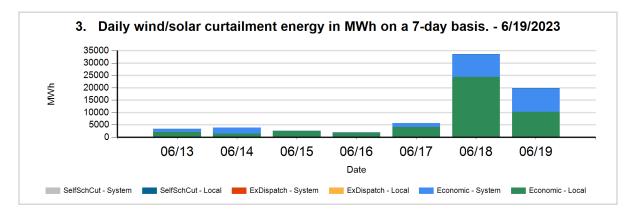
For more information on oversupply conditions, please see: https://www.caiso.com/Documents/FlexibleResourcesHelpRenewables FastFacts.pdf

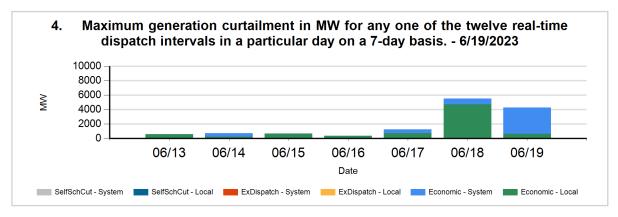


The following charts show the daily and 7-day wind and solar curtailment by category, if any.



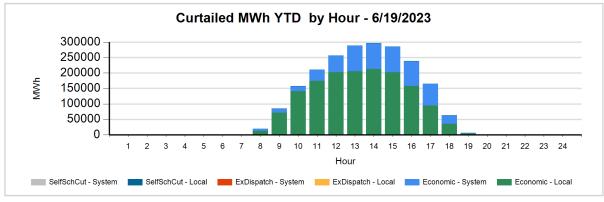




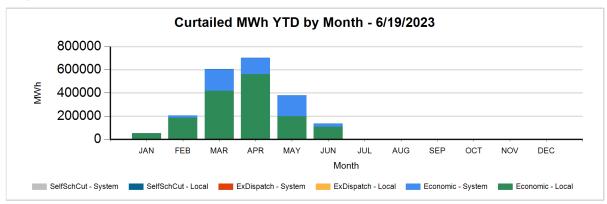




The following charts show hourly year to date wind and solar curtailment by category, if any.



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



TYPE	YTD CURTAILED MWH - 6/19/2023
LocalEconomic	1,518,622
LocalSelfSchCut	785
SystemEconomic	563,111
TOTAL	2,082,519



Data used to produce hourly chart

CURTAILED MW	CURTAILED MWH	FUEL TYPE	REASON	CURT TYPE	HOU R	DATE
7	6	WIND	Local	Economic	1	06/19
6	6	WIND	Local	2 Economic	2	06/19
41	6	WIND	Local	Economic	3	06/19
7	6	WIND	Local	Economic	4	06/19
7	6	WIND	Local	Economic	5	06/19
6	6	WIND	Local	Economic	6	06/19
	7	SOLR	Local	Z Economic	7	06/19
	6	WIND	Local	Z Economic	7	06/19
116	19	SOLR	System	Z Economic	7	06/19
47	6	WIND	System	Economic	7	06/19
58	37	SOLR	Local	Economic	8	06/19
	0	WIND	Local	Economic	8	06/19
1983	610	SOLR	System	Economic	8	06/19
82	52	WIND	System	Economic	8	06/19
97	132	SOLR	Local	Economic	9	06/19
1482	1013	SOLR	System	Economic	9	06/19
126	160	WIND	System	Economic	9	06/19
868	1271	SOLR	Local	Economic	10	06/19
56	49	WIND	Local	Economic	10	06/19
1226	569	SOLR	System	Economic	10	06/19
124	91	WIND	System	Economic	10	06/19
999	1312	SOLR	Local	Economic	11	06/19
63	86	WIND	Local	Economic	11	06/19
1225	488	SOLR	System	Economic	11	06/19
106	67	WIND	System	Economic	11	06/19
	0	SOLR	Local	SelfSchCut	11	06/19
1475	1428	SOLR	Local	Economic	12	06/19
51	72	WIND	Local	2 Economic	12	06/19
1787	1513	SOLR	System	2 Economic	12	06/19
220	125	WIND	System	2 Economic	12	06/19
	1	SOLR	Local	SelfSchCut	12	06/19



06/19	13	Economic	Local	SOLR	924	579
06/19	13	Economic	Local	WIND	35	37
06/19	13	Economic	System	SOLR	2653	3397
06/19	13	Economic	System	WIND	197	229
06/19	14	Economic	Local	SOLR	1561	1771
06/19	14	Economic	Local	WIND	47	19
06/19	14	Economic	System	SOLR	1213	1357
06/19	14	Economic	System	WIND	107	159
06/19	15	Economic	Local	SOLR	1673	1388
06/19	15	Economic	Local	WIND	90	64
06/19	15	Economic	System	SOLR	367	1226
06/19	15	Economic	System	WIND	67	104
06/19	15	SelfSchCut	Local	SOLR	1	
06/19	16	Economic	Local	SOLR	967	1259
06/19	16	Economic	Local	WIND	75	56
06/19	16	Economic	System	SOLR	131	1462
06/19	16	Economic	System	WIND	60	103
06/19	17	Economic	Local	SOLR	199	355
06/19	17	Economic	System	SOLR	35	17
06/19	17	Economic	System	WIND	24	76
06/19	18	Economic	Local	SOLR	114	272
06/19	18	Economic	Local	WIND	23	91
06/19	18	Economic	System	SOLR	4	
06/19	18	Economic	System	WIND	3	
06/19	19	Economic	Local	SOLR	37	113
06/19	19	Economic	Local	WIND	10	9
06/19	19	Economic	System	SOLR	40	63
06/19	20	Economic	Local	SOLR	6	49
06/19	20	Economic	Local	WIND	11	34
06/19	20	Economic	System	SOLR	2	
06/19	21	Economic	Local	WIND	9	9
06/19	21	Economic	System	SOLR	0	2
06/19	22	Economic	Local	WIND	8	9
06/19	23	Economic	Local	WIND	6	9



06/19	24 Economic	Local	WIND	6	9

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.