

Wind and Solar Curtailment June 18, 2024

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.
- 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.

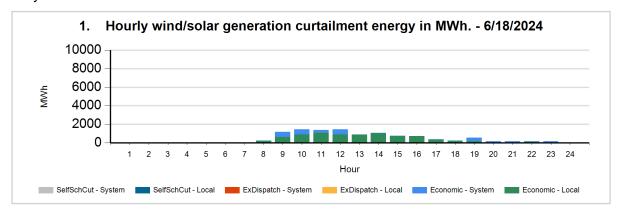
²The Renewables Watch report provides daily actual renewable production within the ISO grid. It is available at: http://www.caiso.com/green/renewableswatch.html.

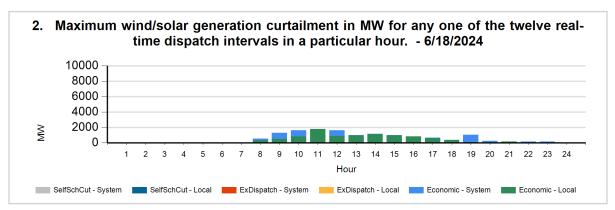
³Congestion occurs when available, least-cost energy cannot be delivered to some loads because transmission facilities do not have sufficient capacity to deliver the energy.

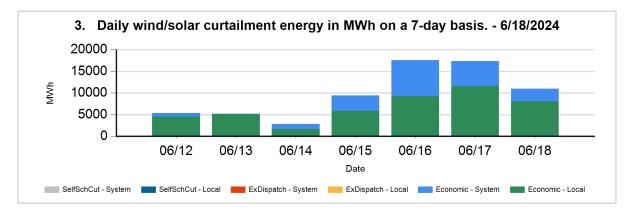
For more information on oversupply conditions, please see: https://www.caiso.com/Documents/FlexibleResourcesHelpRenewables FastFacts.pdf

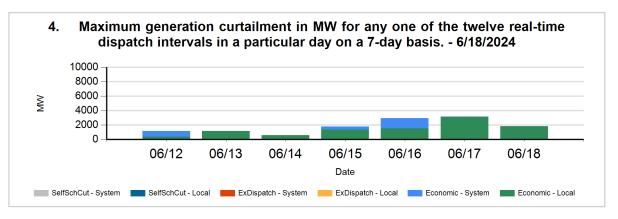


The following charts show the daily and 7-day wind and solar curtailment by category, if any.



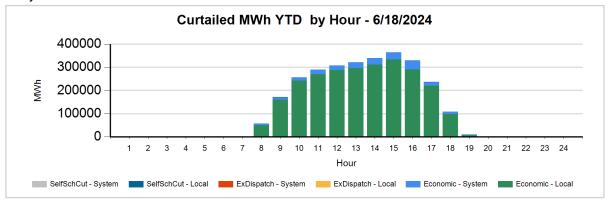




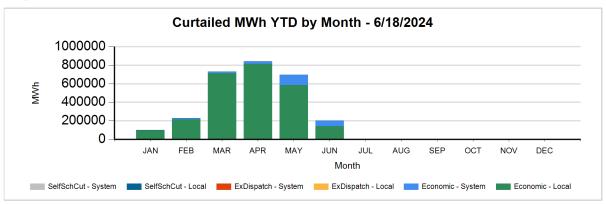




The following charts show hourly year to date wind and solar curtailment by category, if any.



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



TYPE	YTD CURTAILED MWH - 6/18/2024
LocalEconomic	2,569,243
LocalSelfSchCut	1,572
SystemEconomic	223,475
TOTAL	2,794,290



Data used to produce hourly chart

DATE	HOU R	CURT TYPE	REASON	FUEL TYPE	CURTAILED MWH	CURTAILED MW
06/18	7	Economic	System	SOLR	0	2
06/18	8	Economic	Local	SOLR	211	329
06/18	8	Economic	System	SOLR	27	152
06/18	8	Economic	System	WIND	13	57
06/18	9	Economic	Local	SOLR	605	509
06/18	9	Economic	Local	WIND	15	
06/18	9	Economic	System	SOLR	528	763
06/18	9	Economic	System	WIND	28	31
06/18	10	Economic	Local	SOLR	885	834
06/18	10	Economic	Local	WIND	6	
06/18	10	Economic	System	SOLR	536	775
06/18	10	Economic	System	WIND	17	19
06/18	11	Economic	Local	SOLR	1037	1765
06/18	11	Economic	Local	WIND	15	37
06/18	11	Economic	System	SOLR	320	
06/18	11	Economic	System	WIND	13	
06/18	12	Economic	Local	SOLR	891	892
06/18	12	Economic	Local	WIND	3	
06/18	12	Economic	System	SOLR	535	730
06/18	12	Economic	System	WIND	7	6
06/18	13	Economic	Local	SOLR	870	979
06/18	13	Economic	Local	WIND	5	
06/18	13	Economic	System	SOLR	3	4
06/18	13	Economic	System	WIND	7	14
06/18	14	Economic	Local	SOLR	1056	1144
06/18	14	Economic	Local	WIND	0	
06/18	14	Economic	System	SOLR	3	4
06/18	14	Economic	System	WIND	1	
06/18	15	Economic	Local	SOLR	743	983
06/18	15	Economic	Local	WIND	28	
06/18	15	Economic	System	SOLR	0	4



06/18	15	Economic	System	WIND	0	5
06/18	16	Economic	Local	SOLR	628	722
06/18	16	Economic	Local	WIND	86	90
06/18	16	Economic	System	SOLR	0	
06/18	17	Economic	Local	SOLR	242	500
06/18	17	Economic	Local	WIND	142	141
06/18	17	Economic	System	SOLR	6	41
06/18	18	Economic	Local	SOLR	75	220
06/18	18	Economic	Local	WIND	153	169
06/18	18	Economic	System	SOLR	0	
06/18	18	Economic	System	WIND	26	
06/18	19	Economic	Local	SOLR	91	90
06/18	19	Economic	Local	WIND	73	
06/18	19	Economic	System	SOLR	195	585
06/18	19	Economic	System	WIND	185	380
06/18	20	Economic	Local	SOLR	2	17
06/18	20	Economic	Local	WIND	19	
06/18	20	Economic	System	SOLR	13	40
06/18	20	Economic	System	WIND	123	168
06/18	21	Economic	Local	WIND	42	175
06/18	21	Economic	System	WIND	122	
06/18	22	Economic	Local	WIND	88	
06/18	22	Economic	System	WIND	88	179
06/18	23	Economic	Local	WIND	44	
06/18	23	Economic	System	WIND	129	177

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.

