

## Wind and Solar Curtailment May 30, 2023

This report is produced daily to provide a detailed accounting of the wind and solar renewable generation that was curtailed and the reasons why<sup>1</sup>. This report should be read in the context of the Renewables Watch report for a more complete understanding of both renewable curtailment and generation<sup>2</sup>.

Wind and solar curtailments are grouped into the following categories:

- 1. Economic Local: Market dispatch of generators with economic bids to mitigate local congestion<sup>3</sup>.
- 2. Economic System: Market dispatch of generators with economic bids to mitigate systemwide 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.

<sup>1</sup>Only 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.

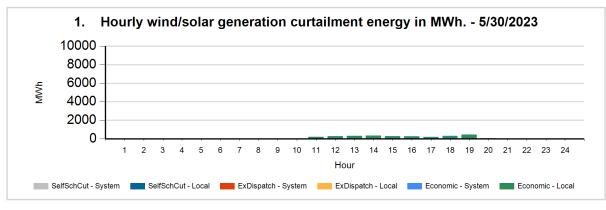
<sup>2</sup>The Renewables Watch report provides daily actual renewable production within the ISO grid. It is available at: <u>http://www.caiso.com/green/renewableswatch.html</u>.

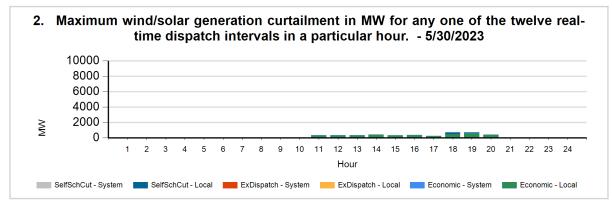
<sup>3</sup>Congestion occurs when available, least-cost energy cannot be delivered to some loads because transmission facilities do not have sufficient capacity to deliver the energy.

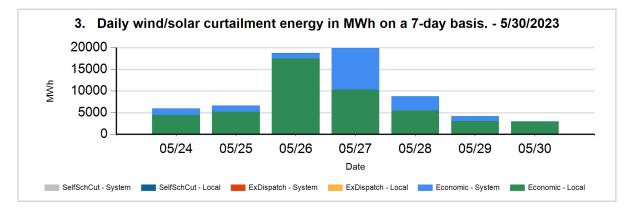
For more information on oversupply conditions, please see: <u>https://www.caiso.com/Documents/FlexibleResourcesHelpRenewables\_FastFacts.pdf</u>



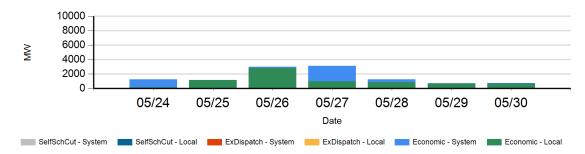
The following charts show the daily and 7-day wind and solar curtailment by category, if any.





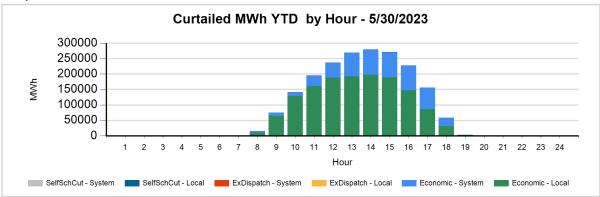




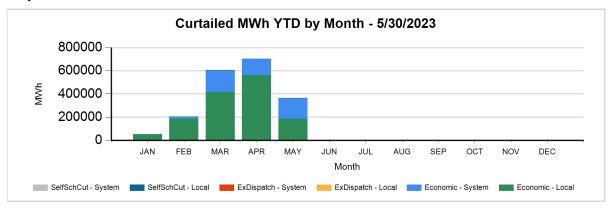




The following charts show hourly year to date wind and solar curtailment by category, if any.



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



TYPE	YTD CURTAILED MWH - 5/30/2023
LocalEconomic	1,399,072
LocalSelfSchCut	610
SystemEconomic	532,680
TOTAL	1,932,361



## Data used to produce hourly chart

DATE	HOU R	CURT TYPE	REASON	FUEL TYPE	CURTAILED MWH	CURTAILED MW
05/30	1	Economic	Local	WIND	23	30
05/30	2	Economic	Local	WIND	15	22
05/30	3	Economic	Local	WIND	12	16
05/30	4	Economic	Local	WIND	16	25
05/30	5	Economic	Local	WIND	19	30
05/30	6	Economic	Local	WIND	12	14
05/30	7	Economic	Local	SOLR	0	5
05/30	7	Economic	Local	WIND	12	13
05/30	8	Economic	Local	SOLR	3	17
05/30	8	Economic	Local	WIND	15	15
05/30	8	Economic	System	SOLR	0	
05/30	9	Economic	Local	SOLR	3	9
05/30	9	Economic	Local	WIND	16	17
05/30	10	Economic	Local	SOLR	25	36
05/30	10	Economic	Local	WIND	16	15
05/30	10	SelfSchCut	Local	SOLR	0	
05/30	11	Economic	Local	SOLR	173	295
05/30	11	Economic	Local	WIND	16	16
05/30	11	Economic	System	SOLR	2	
05/30	11	SelfSchCut	Local	SOLR	2	2
05/30	12	Economic	Local	SOLR	267	306
05/30	12	Economic	Local	WIND	16	16
05/30	12	SelfSchCut	Local	SOLR	2	8
05/30	13	Economic	Local	SOLR	275	311
05/30	13	Economic	Local	WIND	13	10
05/30	13	SelfSchCut	Local	SOLR	3	10
05/30	14	Economic	Local	SOLR	337	397
05/30	14	Economic	Local	WIND	16	15
05/30	14	SelfSchCut	Local	SOLR	0	2
05/30	15	Economic	Local	SOLR	242	300
05/30	15	Economic	Local	WIND	16	16



05/00	4 -					
05/30	15	SelfSchCut	Local	SOLR	1	
05/30	16	Economic	Local	SOLR	254	347
05/30	16	Economic	Local	WIND	16	16
05/30	16	Economic	System	WIND	2	1
05/30	17	Economic	Local	SOLR	202	243
05/30	17	Economic	Local	WIND	16	16
05/30	17	Economic	System	WIND	3	
05/30	18	Economic	Local	SOLR	175	45
05/30	18	Economic	Local	WIND	87	416
05/30	18	Economic	System	WIND	9	
05/30	18	SelfSchCut	Local	WIND	29	248
05/30	19	Economic	Local	SOLR	52	150
05/30	19	Economic	Local	WIND	380	457
05/30	19	Economic	System	SOLR	0	3
05/30	19	SelfSchCut	Local	WIND	24	108
05/30	20	Economic	Local	WIND	59	405
05/30	20	Economic	System	WIND	2	
05/30	21	Economic	Local	WIND	18	28
05/30	21	Economic	System	WIND	7	
05/30	22	Economic	Local	WIND	20	13
05/30	22	Economic	System	WIND	9	16
05/30	23	Economic	Local	WIND	20	13
05/30	23	Economic	System	WIND	9	15
05/30	24	Economic	Local	WIND	15	14
05/30	24	Economic	System	WIND	11	15

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.

