

## Wind and Solar Curtailment October 17, 2024

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.

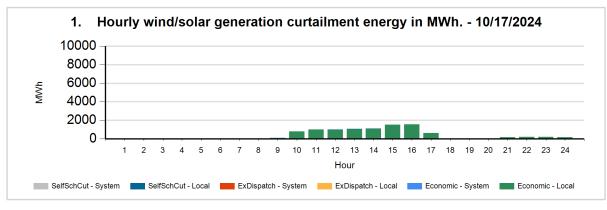
<sup>2</sup>The Renewables Watch report provides daily actual renewable production within the ISO grid. It is available at: <u>http://www.caiso.com/green/renewableswatch.html</u>.

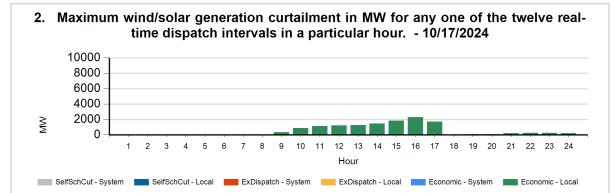
<sup>3</sup>Congestion occurs when available, least-cost energy cannot be delivered to some loads because transmission facilities do not have sufficient capacity to deliver the energy.

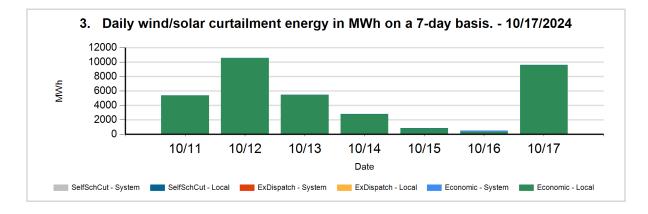
For more information on oversupply conditions, please see: <u>https://www.caiso.com/Documents/FlexibleResourcesHelpRenewables\_FastFacts.pdf</u>

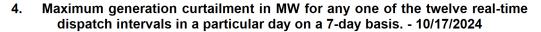


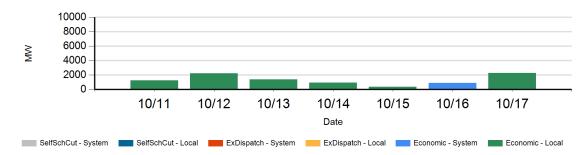
The following charts show the daily and 7-day wind and solar curtailment by category, if any.





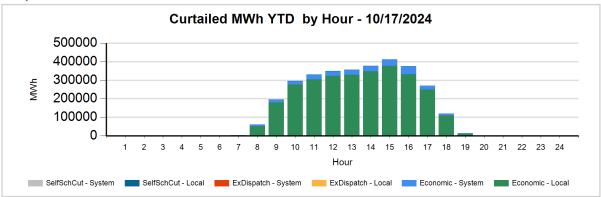




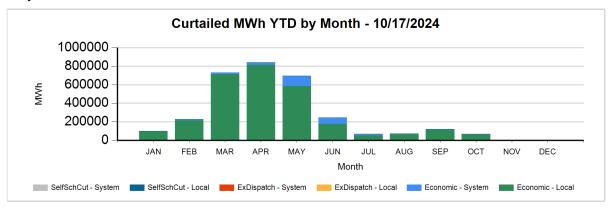




The following charts show hourly year to date wind and solar curtailment by category, if any.



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



TYPE	YTD CURTAILED MWH - 10/17/2024
LocalEconomic	2,897,375
LocalSelfSchCut	2,356
SystemEconomic	269,085
TOTAL	3,168,816



## Data used to produce hourly chart

DATE	HOU R	CURT TYPE	REASON	FUEL TYPE	CURTAILED MWH	CURTAILED MW
10/17	9	Economic	Local	SOLR	88	311
10/17	9	Economic	Local	WIND	27	
10/17	9	Economic	System	SOLR	1	
10/17	10	Economic	Local	SOLR	636	705
10/17	10	Economic	Local	WIND	142	159
10/17	11	Economic	Local	SOLR	840	971
10/17	11	Economic	Local	WIND	158	160
10/17	12	Economic	Local	SOLR	825	1014
10/17	12	Economic	Local	WIND	160	181
10/17	12	SelfSchCut	Local	SOLR	1	4
10/17	13	Economic	Local	SOLR	892	1091
10/17	13	Economic	Local	WIND	187	159
10/17	13	SelfSchCut	Local	SOLR	6	10
10/17	14	Economic	Local	SOLR	903	1108
10/17	14	Economic	Local	WIND	203	336
10/17	14	SelfSchCut	Local	SOLR	2	9
10/17	15	Economic	Local	SOLR	1301	1501
10/17	15	Economic	Local	WIND	235	318
10/17	16	Economic	Local	SOLR	1365	1933
10/17	16	Economic	Local	WIND	177	346
10/17	16	SelfSchCut	Local	SOLR	0	
10/17	17	Economic	Local	SOLR	600	1566
10/17	17	Economic	Local	WIND	29	130
10/17	19	Economic	Local	WIND	37	81
10/17	20	Economic	Local	WIND	27	87
10/17	21	Economic	Local	WIND	179	221
10/17	22	Economic	Local	WIND	195	229
10/17	23	Economic	Local	WIND	217	227
10/17	24	Economic	Local	WIND	183	205

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.

