

## Wind and Solar Curtailment October 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 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 system-wide oversupply<sup>4</sup>.
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.

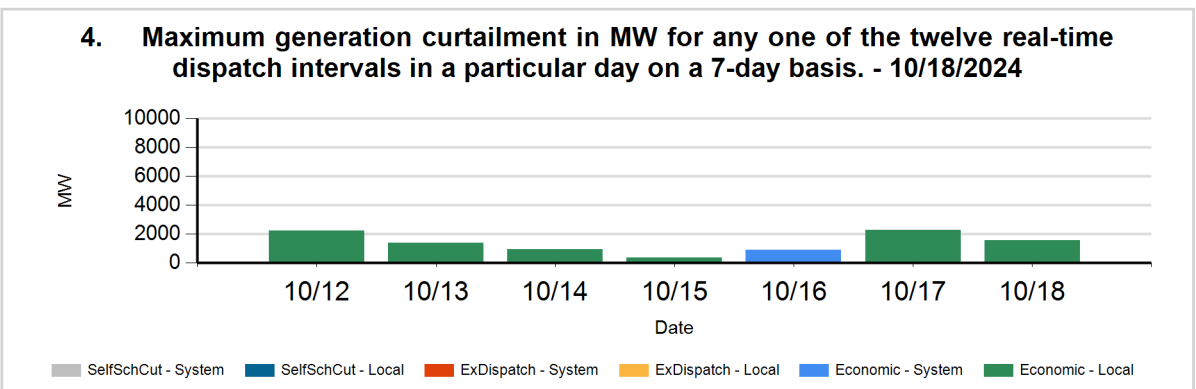
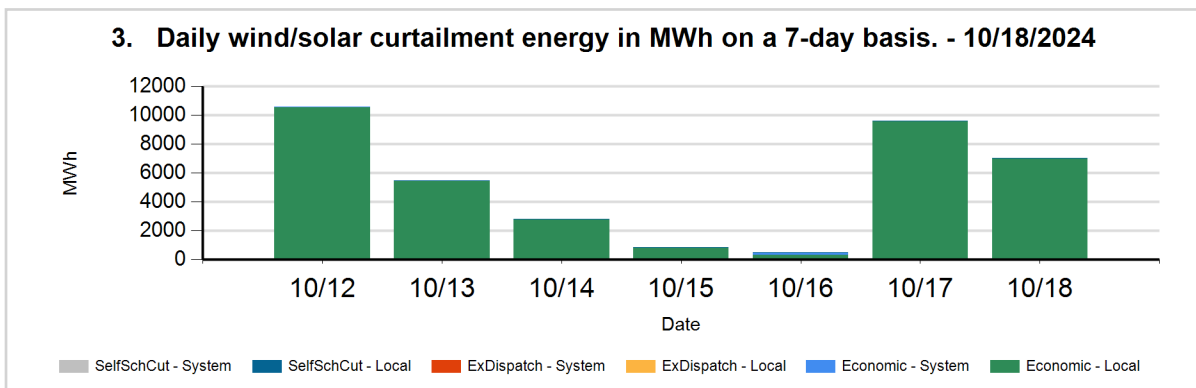
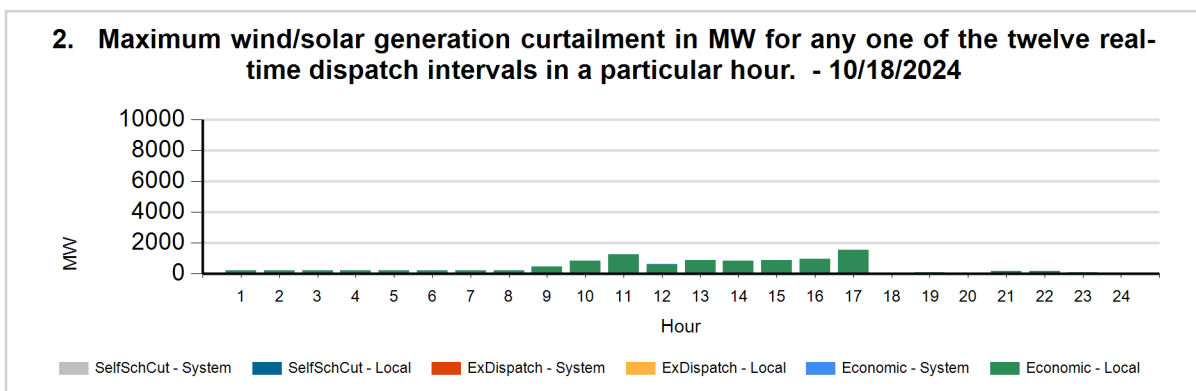
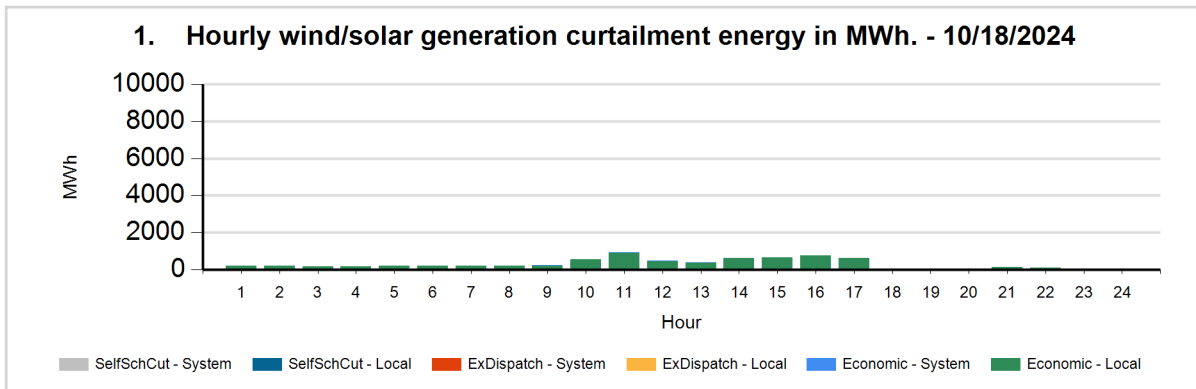
<sup>1</sup>Only wind and solar resources can be reported in this manner because these resources have a forecast. Curtailment is defined as the difference between actual production and the forecast when actual production is less than the forecast.

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

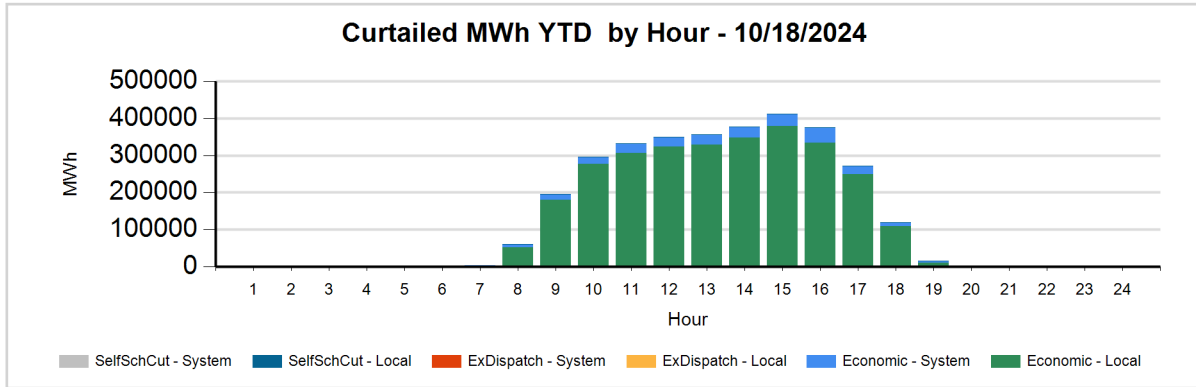
<sup>3</sup>Congestion occurs when available, least-cost energy cannot be delivered to some loads because transmission facilities do not have sufficient capacity to deliver the energy.

<sup>4</sup>For more information on oversupply conditions, please see: [http://www.caiso.com/Documents/FlexibleResourcesHelpRenewables\\_FastFacts.pdf](http://www.caiso.com/Documents/FlexibleResourcesHelpRenewables_FastFacts.pdf)

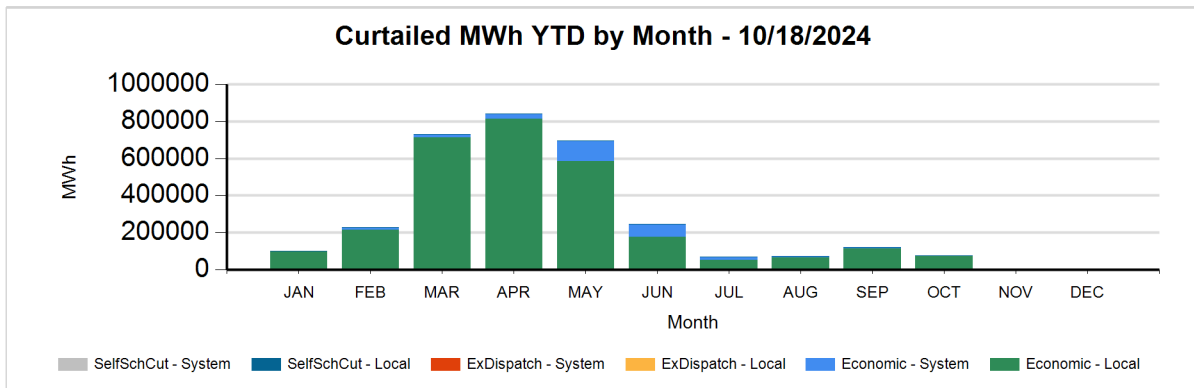
The following charts show the daily and 7-day wind and solar curtailment by category, if any.



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 - 10/18/2024
LocalEconomic	2,904,400
LocalSelfSchCut	2,358
SystemEconomic	269,091
TOTAL	3,175,850

### Data used to produce hourly chart

DATE	HOUR	CURT TYPE	REASON	FUEL TYPE	CURTAILED MWH	CURTAILED MW
10/18	1	Economic	Local	WIND	189	196
10/18	2	Economic	Local	WIND	191	196
10/18	3	Economic	Local	WIND	183	193
10/18	4	Economic	Local	WIND	176	184
10/18	5	Economic	Local	WIND	192	203
10/18	6	Economic	Local	WIND	203	216
10/18	7	Economic	Local	WIND	212	218
10/18	8	Economic	Local	WIND	203	207
10/18	9	Economic	Local	SOLR	71	370
10/18	9	Economic	Local	WIND	156	89
10/18	9	Economic	System	SOLR	1	
10/18	10	Economic	Local	SOLR	390	737
10/18	10	Economic	Local	WIND	146	87
10/18	11	Economic	Local	SOLR	760	1014
10/18	11	Economic	Local	WIND	162	221
10/18	11	Economic	System	SOLR	1	
10/18	11	Economic	System	WIND	1	
10/18	11	SelfSchCut	Local	SOLR	0	
10/18	12	Economic	Local	SOLR	318	448
10/18	12	Economic	Local	WIND	143	181
10/18	12	Economic	System	SOLR	1	7
10/18	12	Economic	System	WIND	2	
10/18	12	SelfSchCut	Local	SOLR	0	
10/18	13	Economic	Local	SOLR	189	668
10/18	13	Economic	Local	WIND	177	221
10/18	13	SelfSchCut	Local	SOLR	2	
10/18	14	Economic	Local	SOLR	424	646
10/18	14	Economic	Local	WIND	194	186
10/18	15	Economic	Local	SOLR	525	740
10/18	15	Economic	Local	WIND	140	122
10/18	16	Economic	Local	SOLR	610	732

10/18	16	Economic	Local	WIND	143	228
10/18	17	Economic	Local	SOLR	622	1547
10/18	17	Economic	Local	WIND	11	13
10/18	18	Economic	Local	SOLR	0	
10/18	18	Economic	Local	WIND	21	53
10/18	19	Economic	Local	WIND	39	63
10/18	21	Economic	Local	WIND	124	175
10/18	22	Economic	Local	WIND	95	145
10/18	23	Economic	Local	WIND	19	59

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](mailto:ShortTermForecasting@caiso.com).