

## Wind and Solar Curtailment October 12, 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 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.

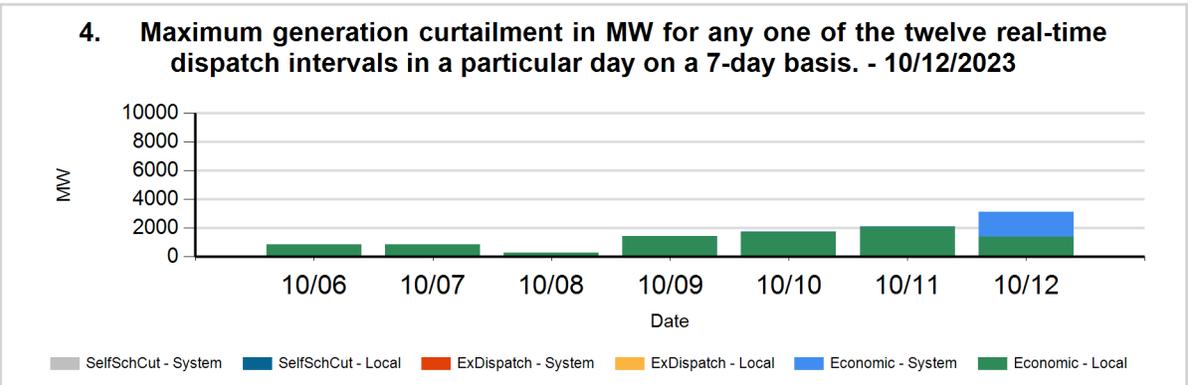
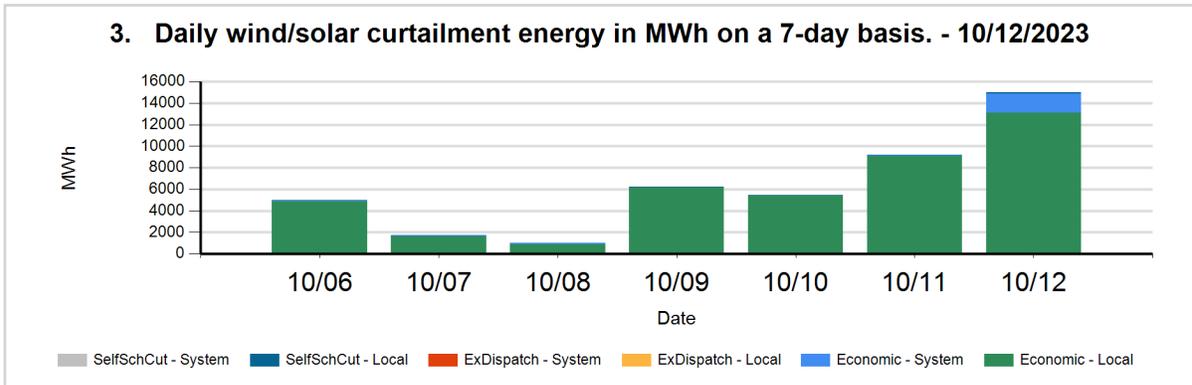
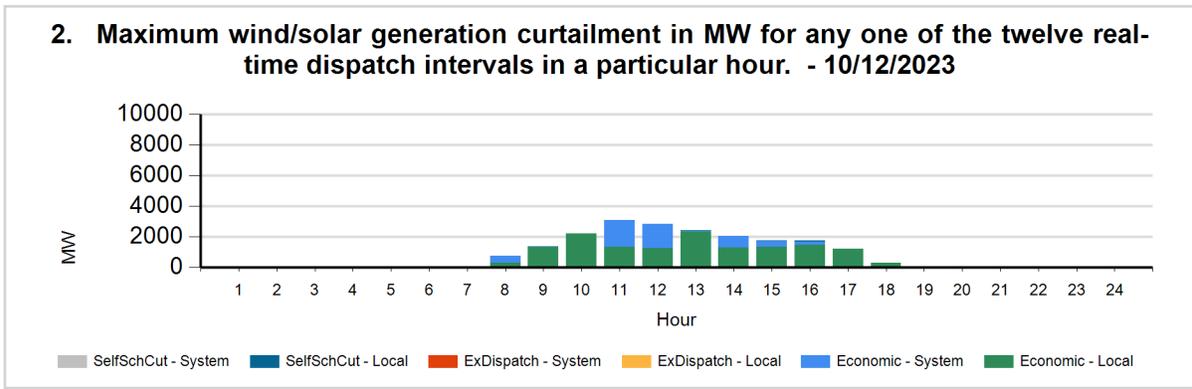
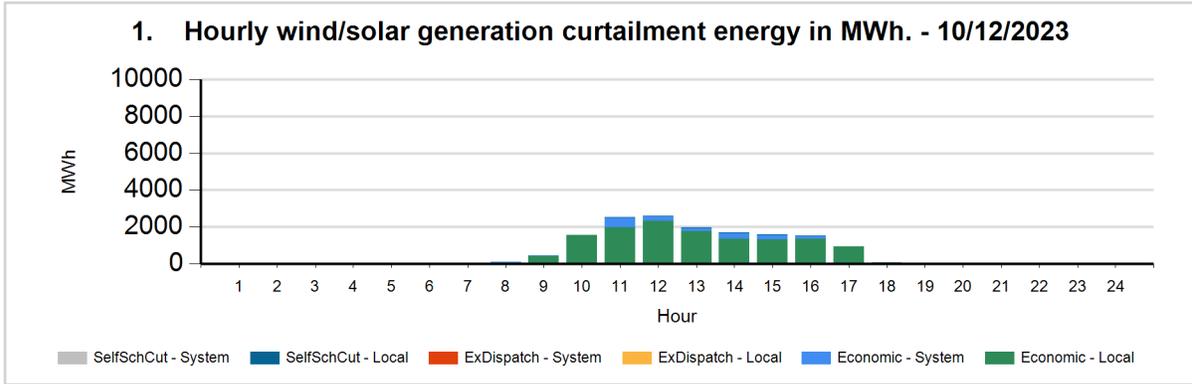
<sup>1</sup>Only wind and solar resources can be reported in this manner because these resources have a forecast. Curtailment is defined as the difference between actual production and the forecast when actual production is less than the forecast.

<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>.

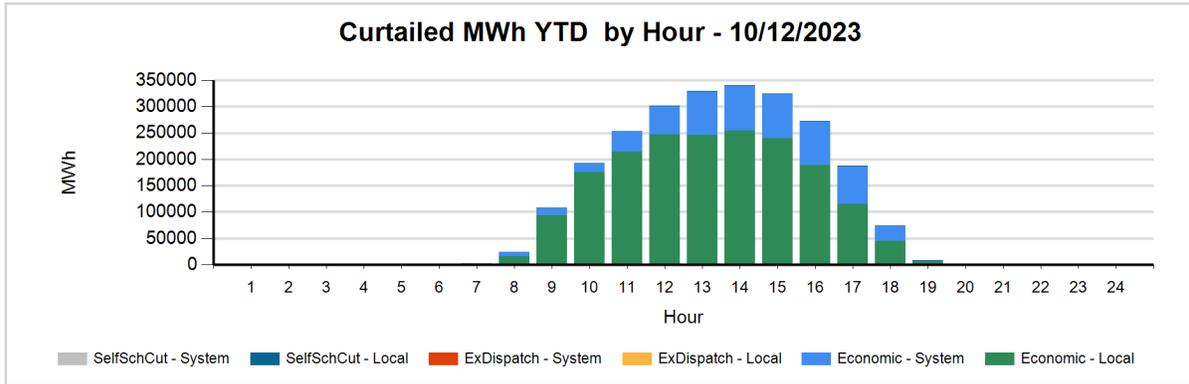
<sup>3</sup>Congestion occurs when available, least-cost energy cannot be delivered to some loads because transmission facilities do not have sufficient capacity to deliver the energy.

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

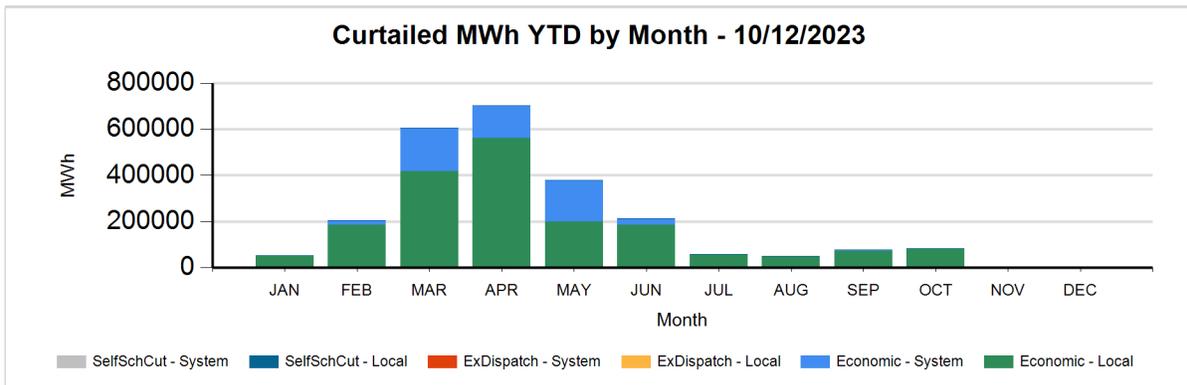
The following charts show the daily and 7-day wind and solar curtailment by category, if any.



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 - 10/12/2023
LocalEconomic	1,850,455
LocalSelfSchCut	2,108
SystemEconomic	573,501
TOTAL	2,426,064

**Data used to produce hourly chart**

DATE	HOUR	CURT TYPE	REASON	FUEL TYPE	CURTAILED MWH	CURTAILED MW
10/12	8	Economic	Local	SOLR	38	273
10/12	8	Economic	System	SOLR	58	436
10/12	8	Economic	System	WIND	3	17
10/12	9	Economic	Local	SOLR	438	1312
10/12	9	Economic	Local	WIND	17	53
10/12	9	Economic	System	SOLR	2	
10/12	9	Economic	System	WIND	1	7
10/12	10	Economic	Local	SOLR	1486	2165
10/12	10	Economic	Local	WIND	55	60
10/12	11	Economic	Local	SOLR	1907	1290
10/12	11	Economic	Local	WIND	67	57
10/12	11	Economic	System	SOLR	525	1664
10/12	11	Economic	System	WIND	30	83
10/12	11	SelfSchCut	Local	SOLR	1	
10/12	12	Economic	Local	SOLR	2230	1225
10/12	12	Economic	Local	WIND	91	31
10/12	12	Economic	System	SOLR	238	1489
10/12	12	Economic	System	WIND	20	96
10/12	12	SelfSchCut	Local	SOLR	10	
10/12	12	SelfSchCut	Local	WIND	10	
10/12	13	Economic	Local	SOLR	1693	2288
10/12	13	Economic	Local	WIND	79	97
10/12	13	Economic	System	SOLR	148	
10/12	13	Economic	System	WIND	27	3
10/12	13	SelfSchCut	Local	SOLR	2	9
10/12	13	SelfSchCut	Local	WIND	8	
10/12	14	Economic	Local	SOLR	1320	1272
10/12	14	Economic	Local	WIND	32	24
10/12	14	Economic	System	SOLR	277	690
10/12	14	Economic	System	WIND	54	58
10/12	14	SelfSchCut	Local	SOLR	9	

10/12	14	SelfSchCut	Local	WIND	9	
10/12	15	Economic	Local	SOLR	1268	1298
10/12	15	Economic	Local	WIND	30	31
10/12	15	Economic	System	SOLR	247	328
10/12	15	Economic	System	WIND	43	43
10/12	15	SelfSchCut	Local	SOLR	3	
10/12	15	SelfSchCut	Local	WIND	2	29
10/12	16	Economic	Local	SOLR	1330	1428
10/12	16	Economic	Local	WIND	28	29
10/12	16	Economic	System	SOLR	94	185
10/12	16	Economic	System	WIND	26	38
10/12	16	SelfSchCut	Local	SOLR	33	67
10/12	17	Economic	Local	SOLR	940	1196
10/12	17	Economic	Local	WIND	7	12
10/12	18	Economic	Local	SOLR	48	267

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).