

## Wind and Solar Curtailment July 21, 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.

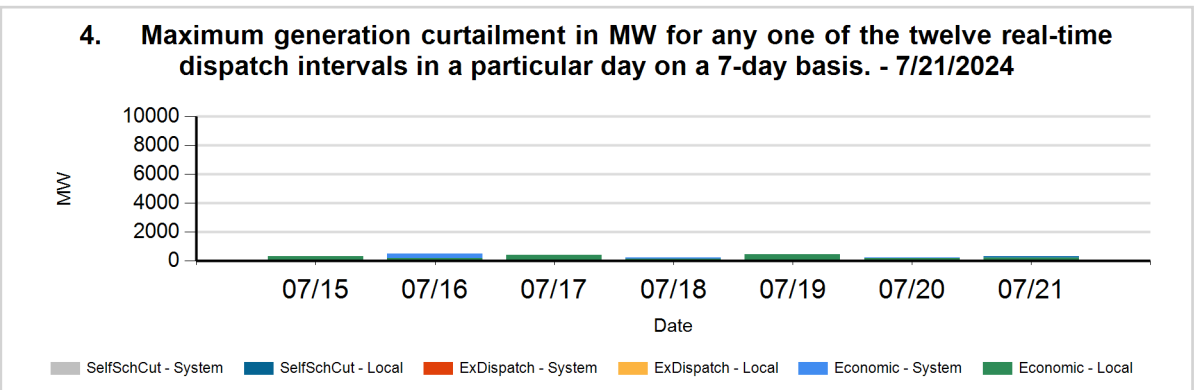
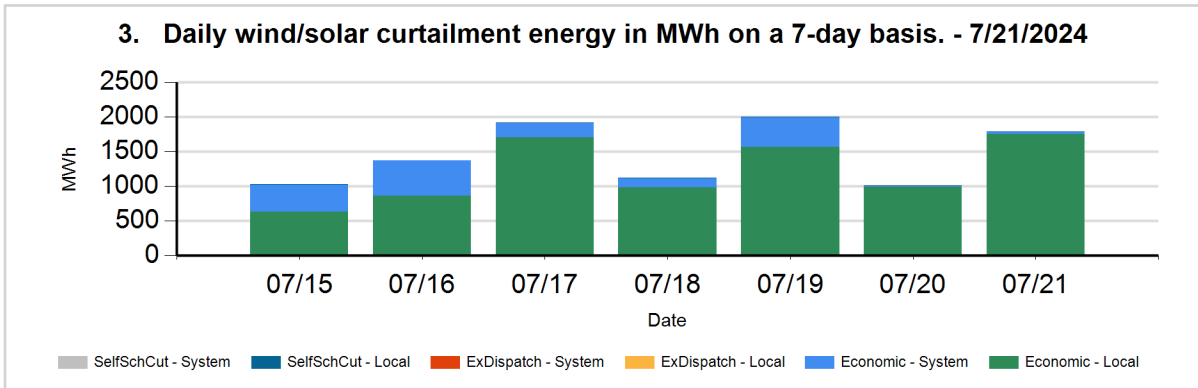
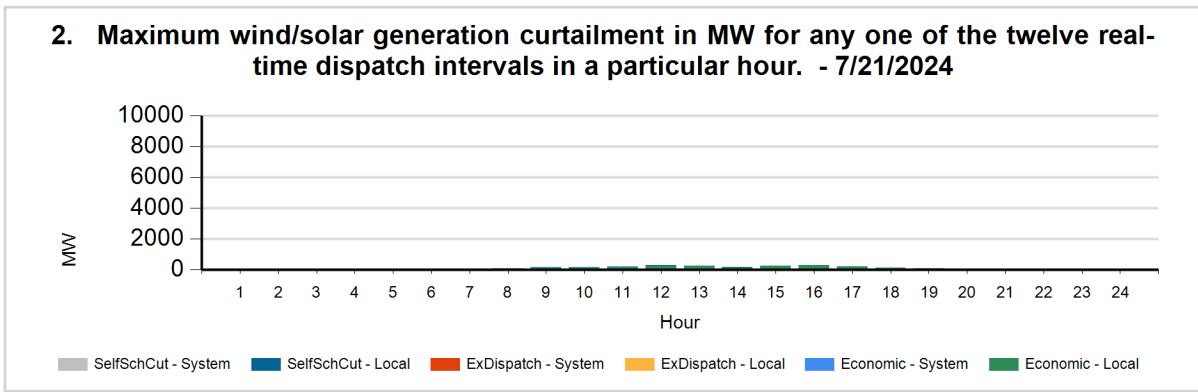
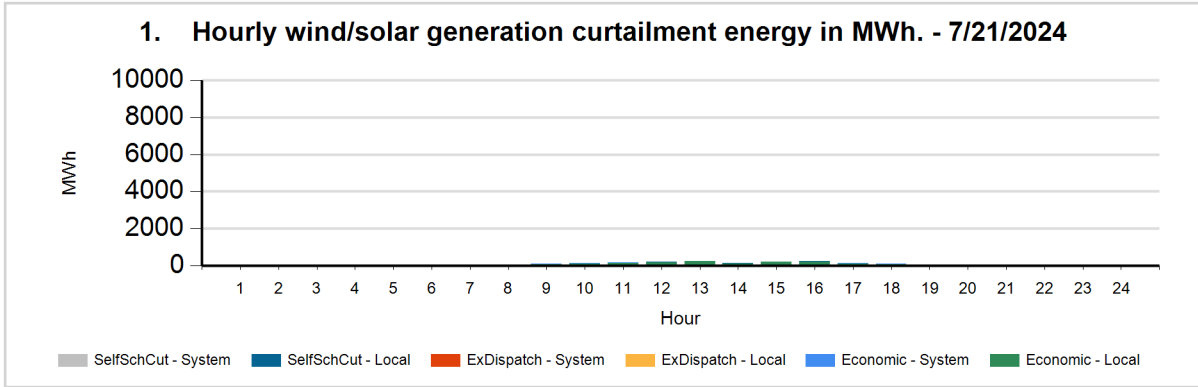
<sup>2</sup>The Renewables Watch report provides daily actual renewable production within the ISO grid. It is available at: <http://www.caiso.com/green/renewableswatch.html>.

<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.

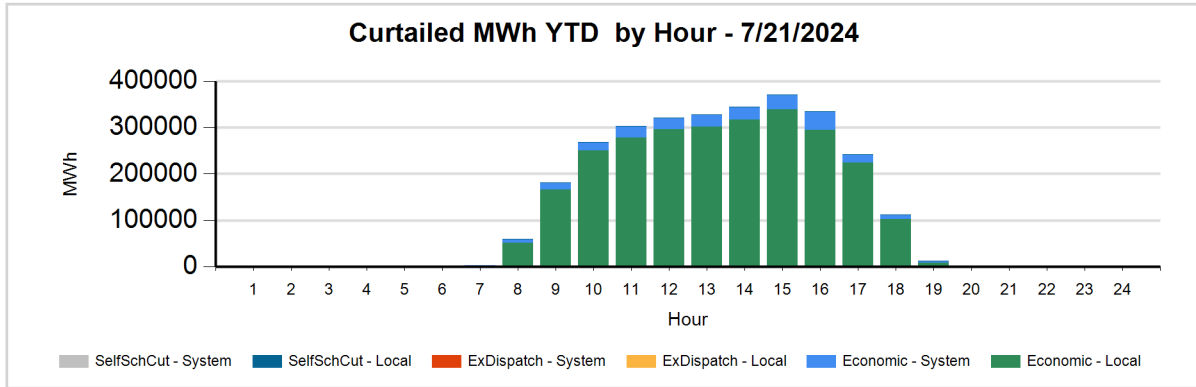
<sup>4</sup>For more information on oversupply conditions, please see:

[https://www.caiso.com/Documents/FlexibleResourcesHelpRenewables\\_FastFacts.pdf](https://www.caiso.com/Documents/FlexibleResourcesHelpRenewables_FastFacts.pdf)

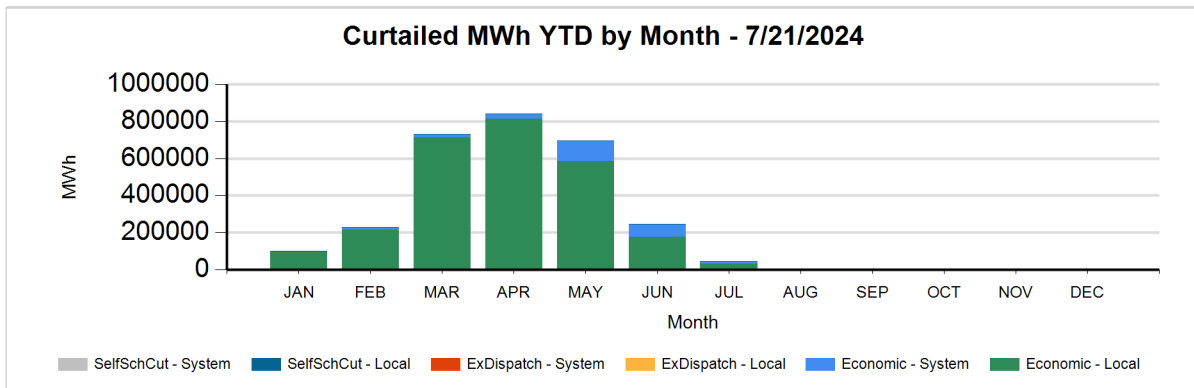
The following charts show the daily and 7-day wind and solar curtailment by category, if any.



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 - 7/21/2024
LocalEconomic	2,634,815
LocalSelfSchCut	1,720
SystemEconomic	248,979
<b>TOTAL</b>	<b>2,885,513</b>

**Data used to produce hourly chart**

DATE	HOUR	CURT TYPE	REASON	FUEL TYPE	CURTAILED MWH	CURTAILED MW
07/21	8	Economic	Local	SOLR	25	72
07/21	8	Economic	System	SOLR	0	1
07/21	9	Economic	Local	SOLR	108	177
07/21	9	Economic	System	SOLR	2	3
07/21	10	Economic	Local	SOLR	135	150
07/21	10	Economic	System	SOLR	2	5
07/21	11	Economic	Local	SOLR	165	169
07/21	11	Economic	System	SOLR	3	22
07/21	12	Economic	Local	SOLR	191	225
07/21	12	Economic	System	SOLR	17	58
07/21	12	SelfSchCut	Local	SOLR	1	9
07/21	13	Economic	Local	SOLR	230	263
07/21	14	Economic	Local	SOLR	147	150
07/21	14	SelfSchCut	Local	SOLR	1	12
07/21	15	Economic	Local	SOLR	214	257
07/21	16	Economic	Local	SOLR	239	276
07/21	16	SelfSchCut	Local	SOLR	4	
07/21	17	Economic	Local	SOLR	141	204
07/21	17	Economic	System	SOLR	8	
07/21	18	Economic	Local	SOLR	110	128
07/21	18	Economic	System	SOLR	1	
07/21	19	Economic	Local	SOLR	35	84
07/21	19	Economic	System	SOLR	0	
07/21	20	Economic	Local	SOLR	6	31

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).

