

## Wind and Solar Curtailment July 22, 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.

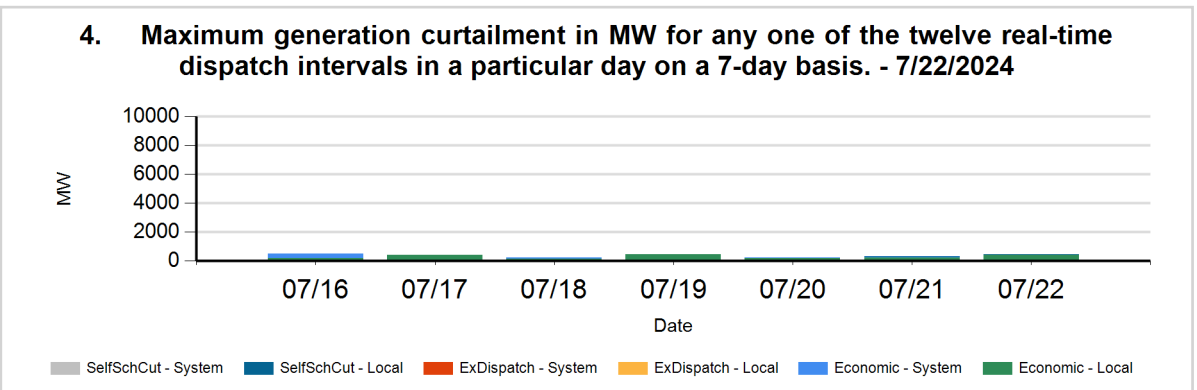
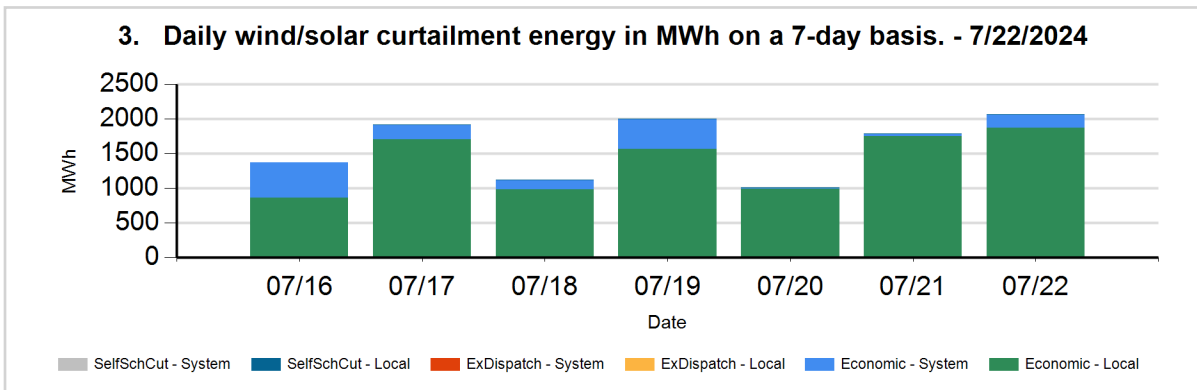
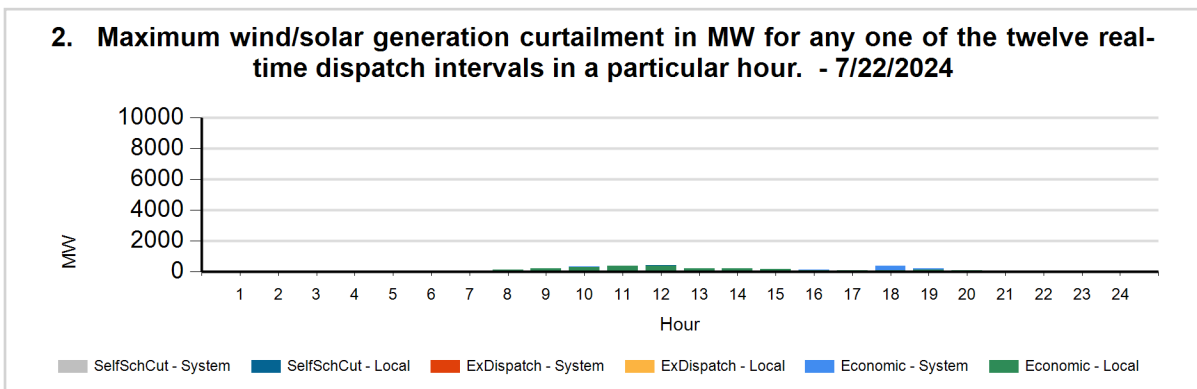
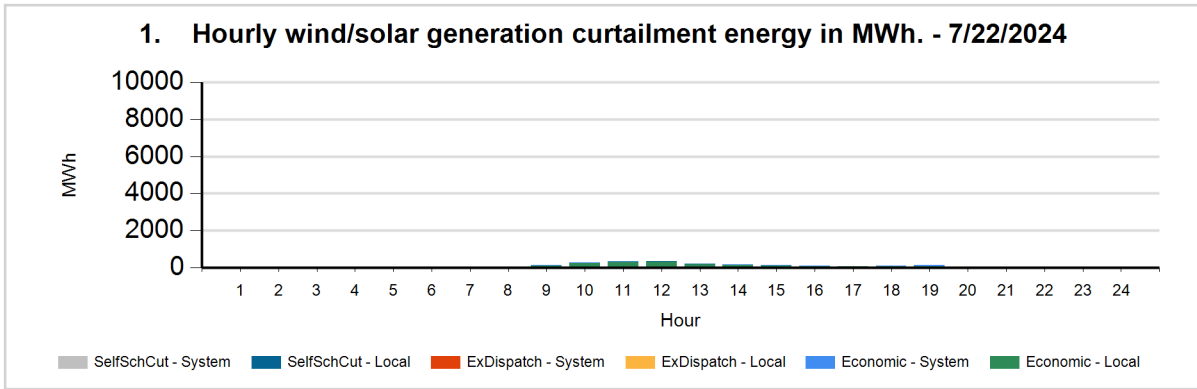
<sup>2</sup>The Renewables Watch report provides daily actual renewable production within the ISO grid. It is available at: <http://www.caiso.com/green/renewableswatch.html>.

<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.

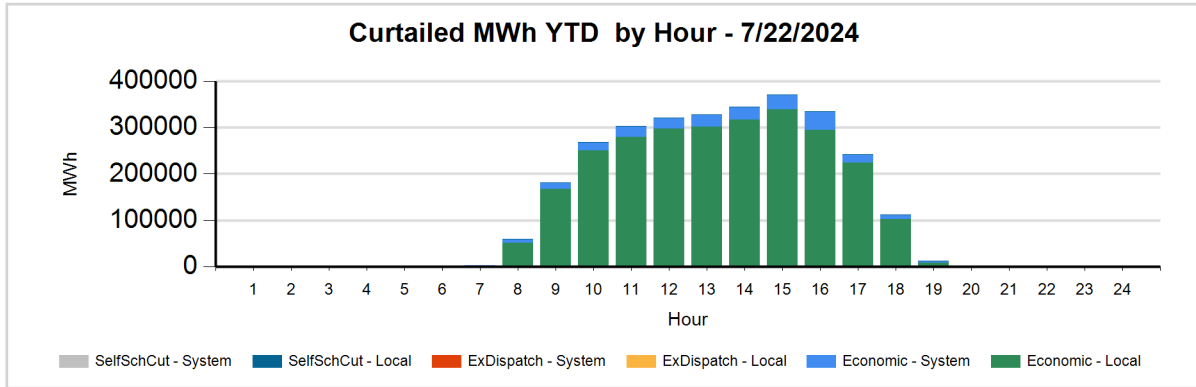
<sup>4</sup>For more information on oversupply conditions, please see:

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

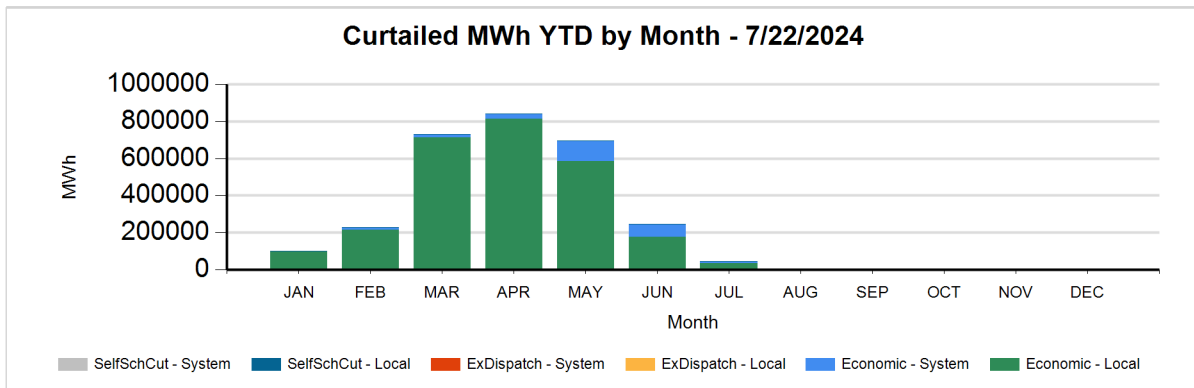
The following charts show the daily and 7-day wind and solar curtailment by category, if any.



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 - 7/22/2024
LocalEconomic	2,636,684
LocalSelfSchCut	1,722
SystemEconomic	249,168
<b>TOTAL</b>	<b>2,887,574</b>

**Data used to produce hourly chart**

DATE	HOUR	CURT TYPE	REASON	FUEL TYPE	CURTAILED MWH	CURTAILED MW
07/22	8	Economic	Local	SOLR	32	107
07/22	8	Economic	System	SOLR	0	
07/22	9	Economic	Local	SOLR	119	208
07/22	9	Economic	System	SOLR	24	
07/22	10	Economic	Local	SOLR	242	306
07/22	10	Economic	System	SOLR	26	21
07/22	11	Economic	Local	SOLR	334	377
07/22	11	Economic	System	SOLR	8	
07/22	12	Economic	Local	SOLR	304	429
07/22	12	Economic	System	SOLR	49	
07/22	12	SelfSchCut	Local	SOLR	1	4
07/22	13	Economic	Local	SOLR	196	220
07/22	13	Economic	System	SOLR	0	
07/22	13	SelfSchCut	Local	SOLR	1	
07/22	14	Economic	Local	SOLR	160	211
07/22	14	Economic	System	SOLR	2	
07/22	15	Economic	Local	SOLR	146	167
07/22	15	Economic	System	SOLR	1	
07/22	16	Economic	Local	SOLR	97	109
07/22	16	Economic	System	SOLR	1	7
07/22	17	Economic	Local	SOLR	79	86
07/22	18	Economic	Local	SOLR	60	72
07/22	18	Economic	Local	WIND	0	
07/22	18	Economic	System	SOLR	30	271
07/22	18	Economic	System	WIND	8	47
07/22	19	Economic	Local	SOLR	79	127
07/22	19	Economic	System	SOLR	39	91
07/22	20	Economic	Local	SOLR	22	75

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).



California ISO