

## Wind and Solar Curtailment May 09, 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.

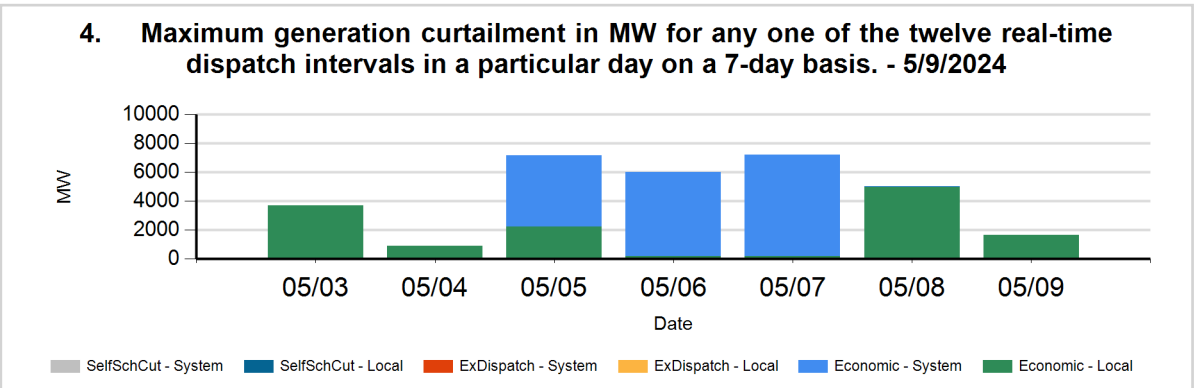
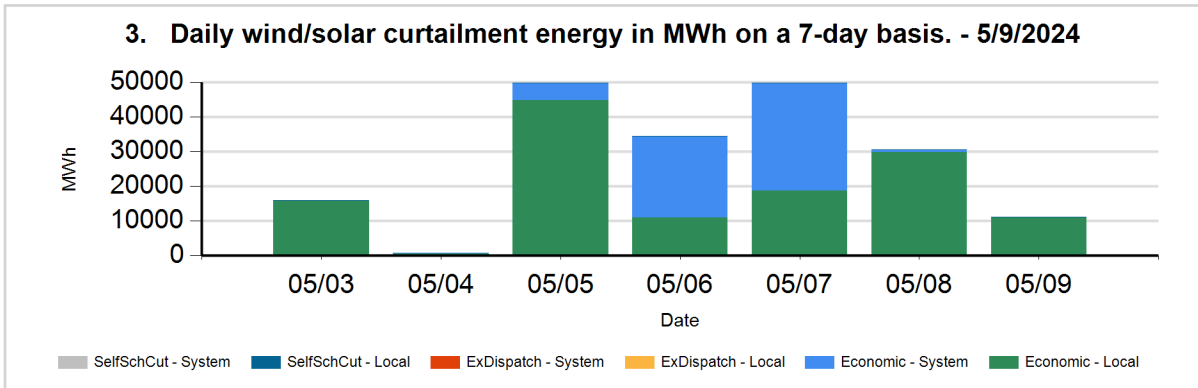
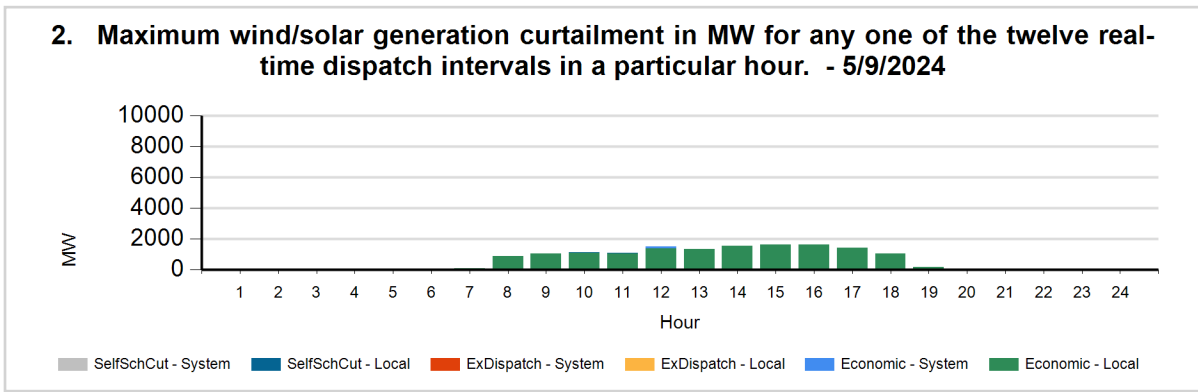
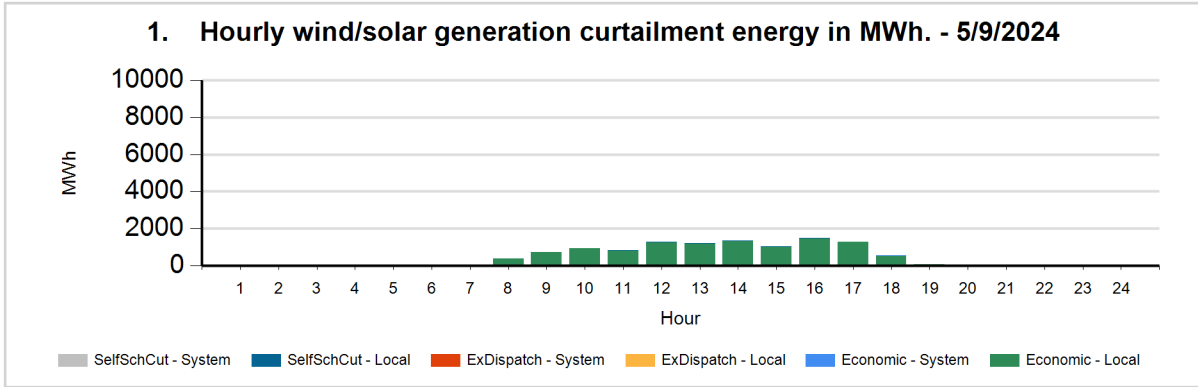
<sup>2</sup>The Renewables Watch report provides daily actual renewable production within the ISO grid. It is available at: <http://www.caiso.com/green/renewableswatch.html>.

<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.

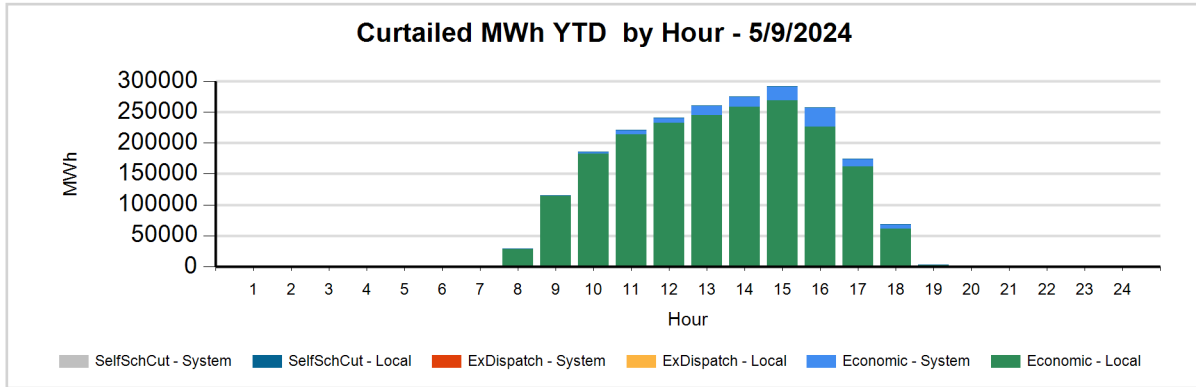
<sup>4</sup>For more information on oversupply conditions, please see:

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

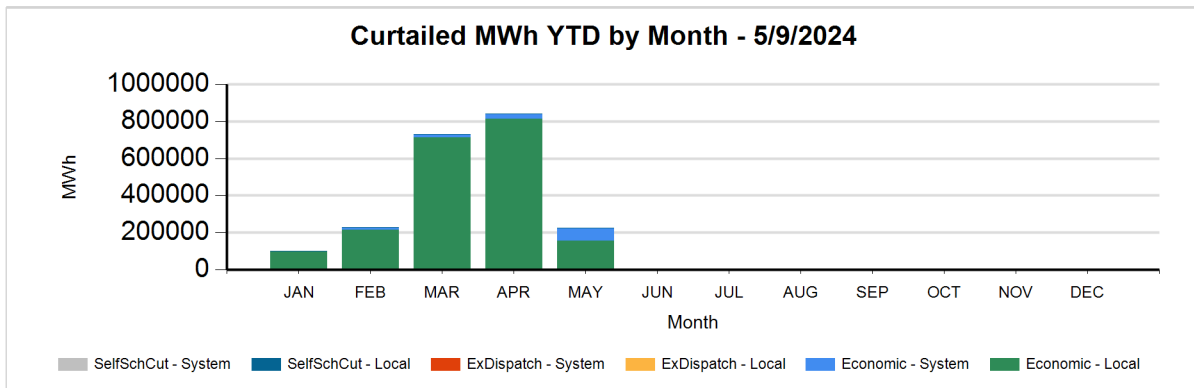
The following charts show the daily and 7-day wind and solar curtailment by category, if any.



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 - 5/9/2024
LocalEconomic	1,998,062
LocalSelfSchCut	1,345
SystemEconomic	123,649
TOTAL	2,123,056

**Data used to produce hourly chart**

DATE	HOUR	CURT TYPE	REASON	FUEL TYPE	CURTAILED MWH	CURTAILED MW
05/09	7	Economic	Local	WIND	18	64
05/09	8	Economic	Local	SOLR	366	882
05/09	8	Economic	Local	WIND	5	8
05/09	9	Economic	Local	SOLR	716	1036
05/09	9	Economic	Local	WIND	3	
05/09	10	Economic	Local	SOLR	912	1043
05/09	10	Economic	Local	WIND	26	77
05/09	10	SelfSchCut	Local	SOLR	0	1
05/09	11	Economic	Local	SOLR	837	1061
05/09	11	Economic	Local	WIND	2	
05/09	11	SelfSchCut	Local	SOLR	3	9
05/09	12	Economic	Local	SOLR	1234	1363
05/09	12	Economic	Local	WIND	15	
05/09	12	Economic	System	SOLR	21	120
05/09	12	SelfSchCut	Local	SOLR	6	
05/09	13	Economic	Local	SOLR	1162	1258
05/09	13	Economic	Local	WIND	50	89
05/09	13	SelfSchCut	Local	SOLR	4	
05/09	14	Economic	Local	SOLR	1289	1469
05/09	14	Economic	Local	WIND	39	73
05/09	14	SelfSchCut	Local	SOLR	3	
05/09	15	Economic	Local	SOLR	975	1594
05/09	15	Economic	Local	WIND	17	29
05/09	15	Economic	System	SOLR	30	
05/09	15	SelfSchCut	Local	SOLR	1	
05/09	16	Economic	Local	SOLR	1473	1617
05/09	16	Economic	Local	WIND	10	8
05/09	16	SelfSchCut	Local	SOLR	1	
05/09	17	Economic	Local	SOLR	1261	1419
05/09	17	Economic	Local	WIND	1	
05/09	18	Economic	Local	SOLR	559	1021

05/09	18	Economic	Local	WIND	1	
05/09	18	Economic	System	SOLR	2	
05/09	19	Economic	Local	SOLR	62	175

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).