

## Wind and Solar Curtailment May 20, 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.

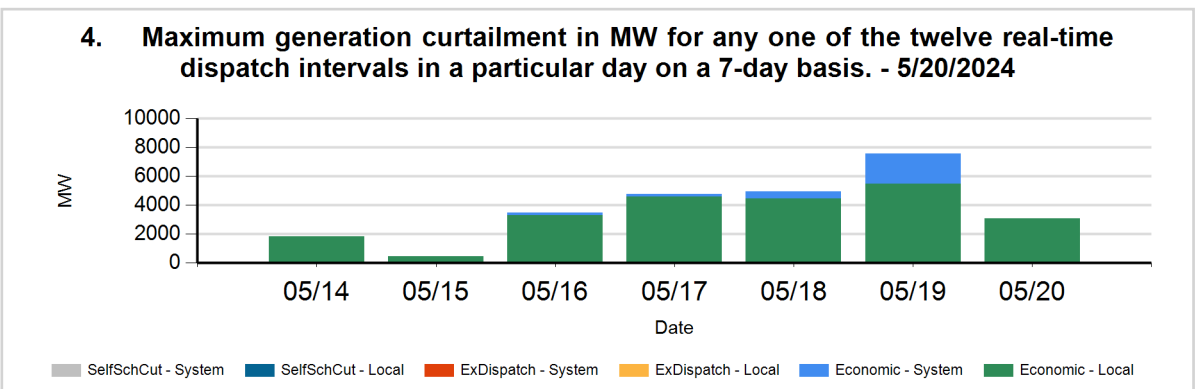
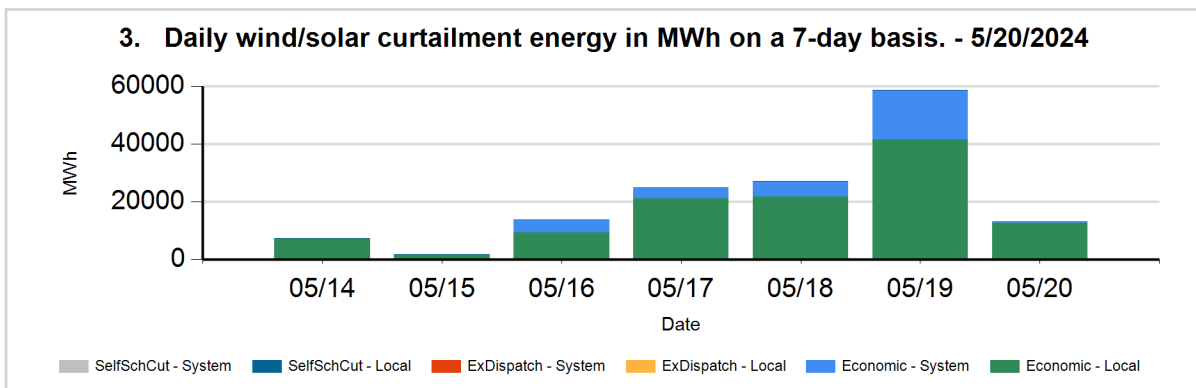
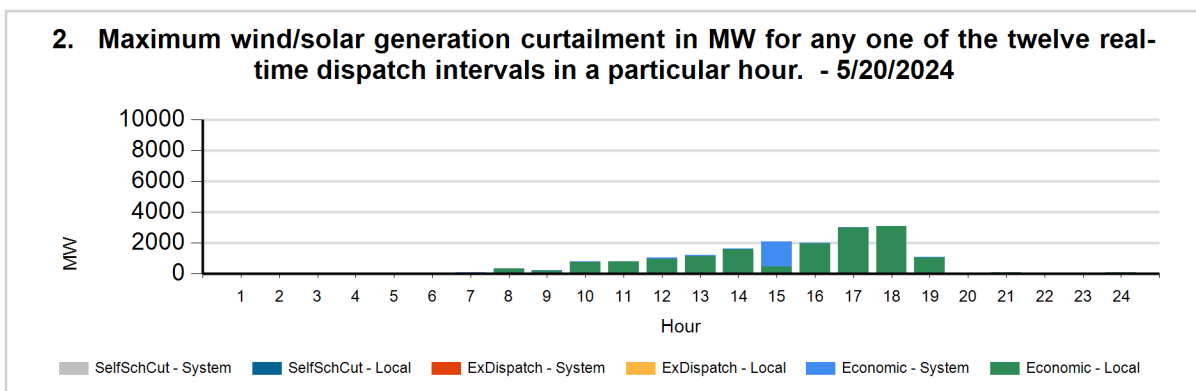
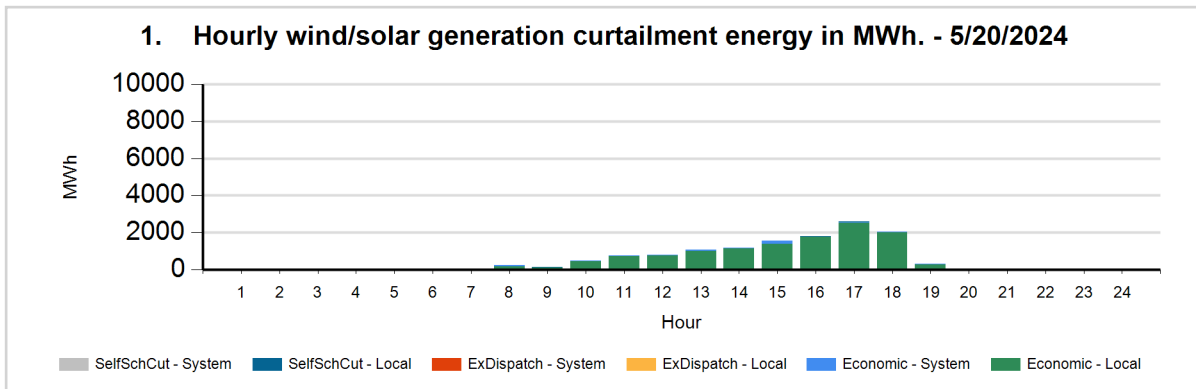
<sup>1</sup>Only wind and solar resources can be reported in this manner because these resources have a forecast. Curtailment is defined as the difference between actual production and the forecast when actual production is less than the forecast.

<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>.

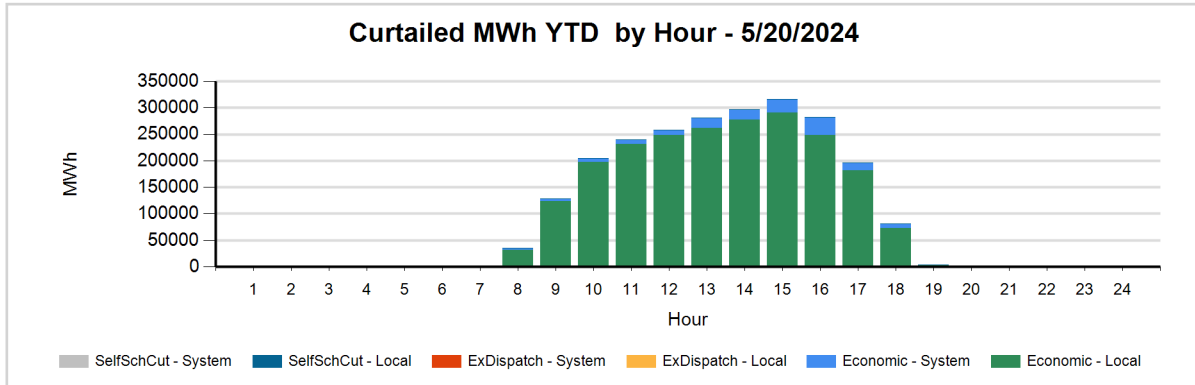
<sup>3</sup>Congestion occurs when available, least-cost energy cannot be delivered to some loads because transmission facilities do not have sufficient capacity to deliver the energy.

<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)

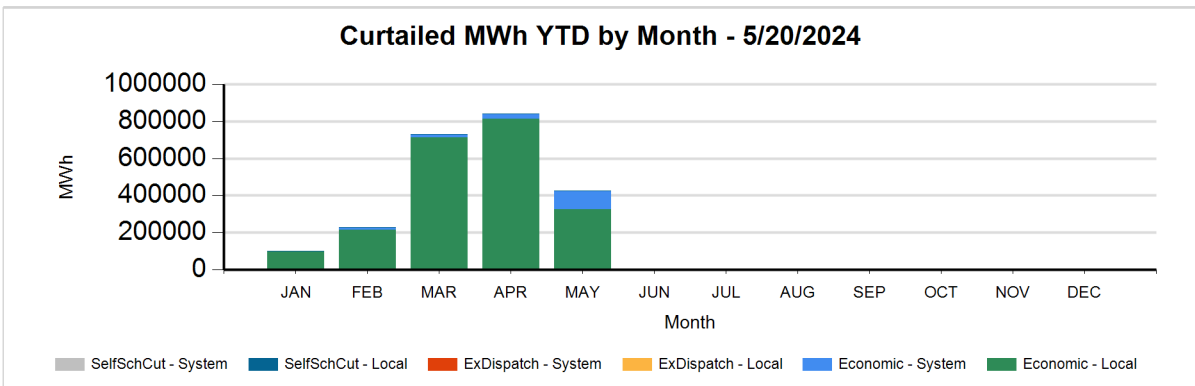
The following charts show the daily and 7-day wind and solar curtailment by category, if any.



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 - 5/20/2024
LocalEconomic	2,168,483
LocalSelfSchCut	1,477
SystemEconomic	155,043
TOTAL	2,325,003

Data used to produce hourly chart

DATE	HOUR	CURT TYPE	REASON	FUEL TYPE	CURTAILED MWH	CURTAILED MW
05/20	6	Economic	System	WIND	2	22
05/20	7	Economic	System	SOLR	11	76
05/20	8	Economic	Local	SOLR	161	340
05/20	8	Economic	System	SOLR	64	
05/20	9	Economic	Local	SOLR	139	195
05/20	9	SelfSchCut	Local	SOLR	1	4
05/20	10	Economic	Local	SOLR	471	776
05/20	10	Economic	System	SOLR	8	6
05/20	10	SelfSchCut	Local	SOLR	0	
05/20	11	Economic	Local	SOLR	759	803
05/20	11	Economic	System	SOLR	8	
05/20	12	Economic	Local	SOLR	758	967
05/20	12	Economic	System	SOLR	26	71
05/20	12	Economic	System	WIND	3	7
05/20	13	Economic	Local	SOLR	1009	1110
05/20	13	Economic	Local	WIND	1	
05/20	13	Economic	System	SOLR	58	66
05/20	13	Economic	System	WIND	8	10
05/20	14	Economic	Local	SOLR	1147	1609
05/20	14	Economic	Local	WIND	3	
05/20	14	Economic	System	SOLR	35	
05/20	14	Economic	System	WIND	4	3
05/20	15	Economic	Local	SOLR	1397	435
05/20	15	Economic	System	SOLR	134	1607
05/20	15	Economic	System	WIND	6	25
05/20	16	Economic	Local	SOLR	1802	2002
05/20	16	Economic	Local	WIND	4	
05/20	16	Economic	System	WIND	4	1
05/20	16	SelfSchCut	Local	SOLR	1	
05/20	17	Economic	Local	SOLR	2311	2586
05/20	17	Economic	Local	WIND	258	409

05/20	17	Economic	System	WIND	2	
05/20	17	SelfSchCut	Local	SOLR	3	4
05/20	18	Economic	Local	SOLR	2003	2775
05/20	18	Economic	Local	WIND	42	299
05/20	18	Economic	System	SOLR	5	
05/20	19	Economic	Local	SOLR	294	1072
05/20	19	Economic	Local	WIND	4	
05/20	19	Economic	System	SOLR	2	9
05/20	20	Economic	Local	WIND	10	54
05/20	21	Economic	Local	WIND	32	63
05/20	22	Economic	Local	WIND	11	47
05/20	23	Economic	Local	WIND	16	58
05/20	24	Economic	Local	WIND	14	72

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).