

## Wind and Solar Curtailment May 23, 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.

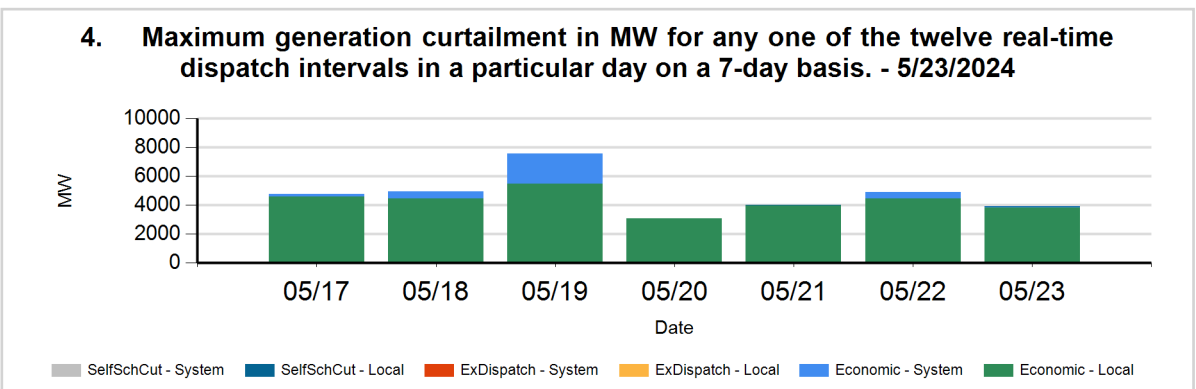
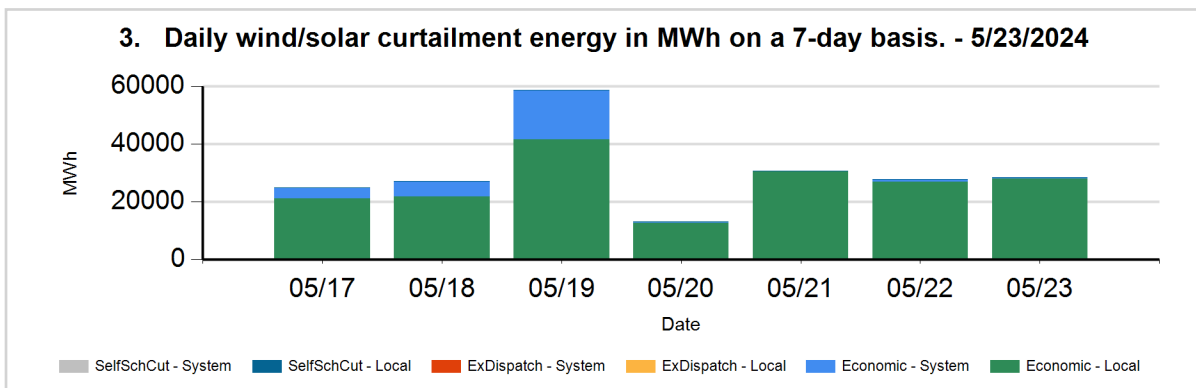
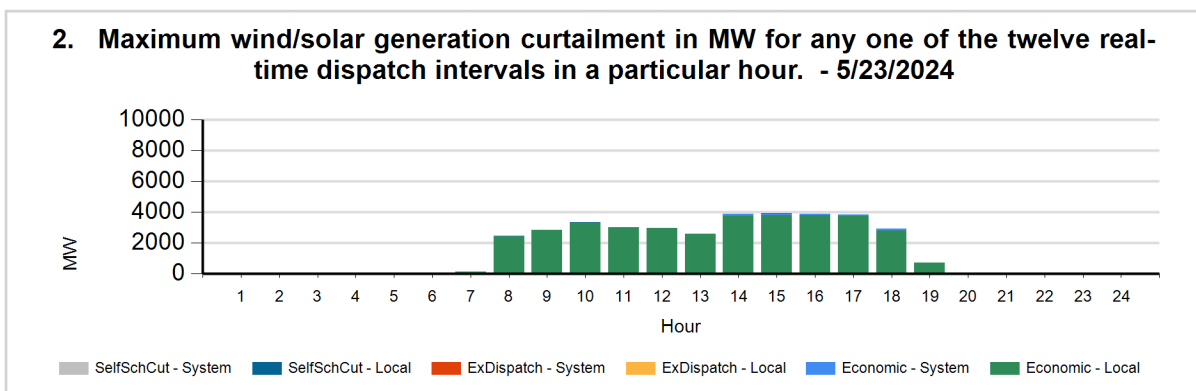
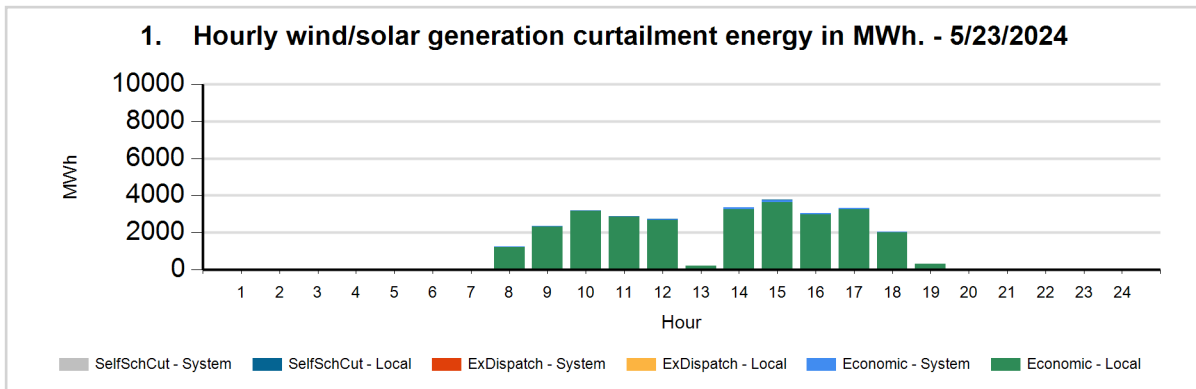
<sup>1</sup>Only wind and solar resources can be reported in this manner because these resources have a forecast. Curtailment is defined as the difference between actual production and the forecast when actual production is less than the forecast.

<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>.

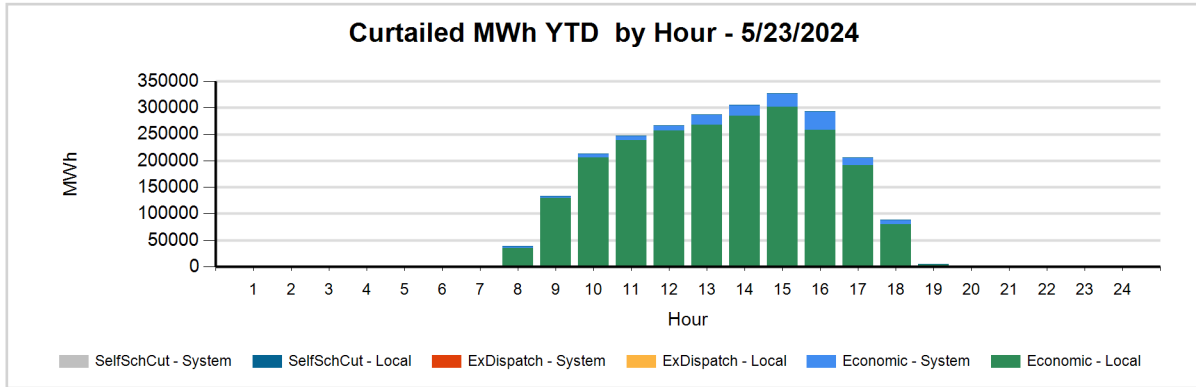
<sup>3</sup>Congestion occurs when available, least-cost energy cannot be delivered to some loads because transmission facilities do not have sufficient capacity to deliver the energy.

<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)

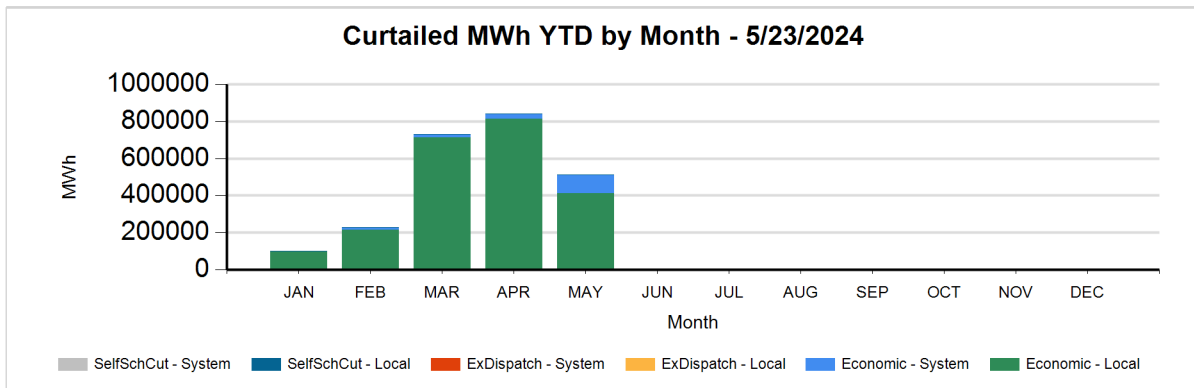
The following charts show the daily and 7-day wind and solar curtailment by category, if any.



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 - 5/23/2024
LocalEconomic	2,253,965
LocalSelfSchCut	1,501
SystemEconomic	156,464
TOTAL	2,411,930

Data used to produce hourly chart

DATE	HOUR	CURT TYPE	REASON	FUEL TYPE	CURTAILED MWH	CURTAILED MW
05/23	7	Economic	Local	SOLR	11	123
05/23	8	Economic	Local	SOLR	1117	2063
05/23	8	Economic	Local	WIND	123	351
05/23	8	Economic	System	SOLR	10	31
05/23	9	Economic	Local	SOLR	2197	2676
05/23	9	Economic	Local	WIND	134	162
05/23	9	Economic	System	SOLR	2	
05/23	10	Economic	Local	SOLR	3062	3196
05/23	10	Economic	Local	WIND	135	136
05/23	10	SelfSchCut	Local	SOLR	1	2
05/23	11	Economic	Local	SOLR	2756	2856
05/23	11	Economic	Local	WIND	118	123
05/23	11	SelfSchCut	Local	SOLR	1	2
05/23	12	Economic	Local	SOLR	2542	2845
05/23	12	Economic	Local	WIND	115	116
05/23	12	Economic	System	SOLR	74	
05/23	12	Economic	System	WIND	1	
05/23	12	SelfSchCut	Local	SOLR	2	
05/23	13	Economic	Local	SOLR	206	2468
05/23	13	Economic	Local	WIND	10	120
05/23	14	Economic	Local	SOLR	2915	3257
05/23	14	Economic	Local	WIND	343	495
05/23	14	Economic	System	SOLR	96	117
05/23	15	Economic	Local	SOLR	3181	3165
05/23	15	Economic	Local	WIND	458	634
05/23	15	Economic	System	SOLR	116	115
05/23	15	SelfSchCut	Local	SOLR	1	1
05/23	16	Economic	Local	SOLR	2519	3113
05/23	16	Economic	Local	WIND	437	661
05/23	16	Economic	System	SOLR	77	115
05/23	16	SelfSchCut	Local	SOLR	0	

05/23	17	Economic	Local	SOLR	2690	3082
05/23	17	Economic	Local	WIND	550	656
05/23	17	Economic	System	SOLR	72	89
05/23	18	Economic	Local	SOLR	1791	2388
05/23	18	Economic	Local	WIND	249	416
05/23	18	Economic	System	SOLR	15	99
05/23	19	Economic	Local	SOLR	301	697
05/23	20	Economic	Local	SOLR	12	56

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).