

## Wind and Solar Curtailment May 29, 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.

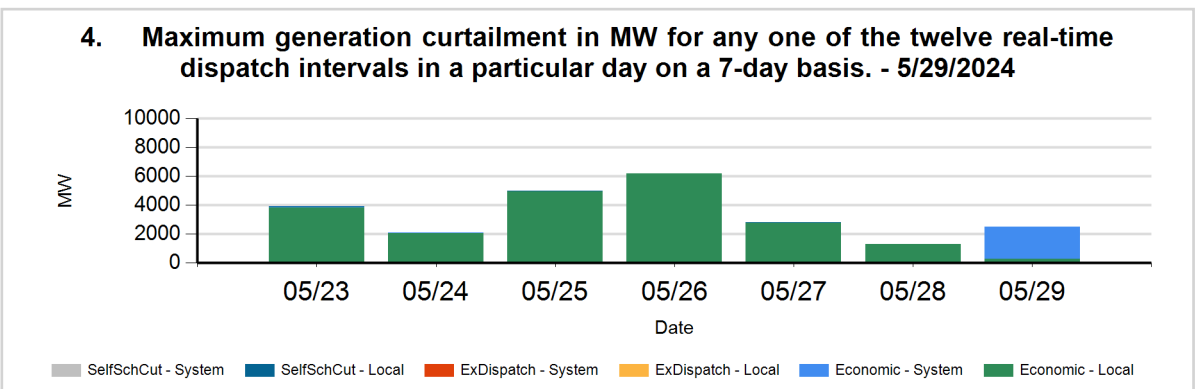
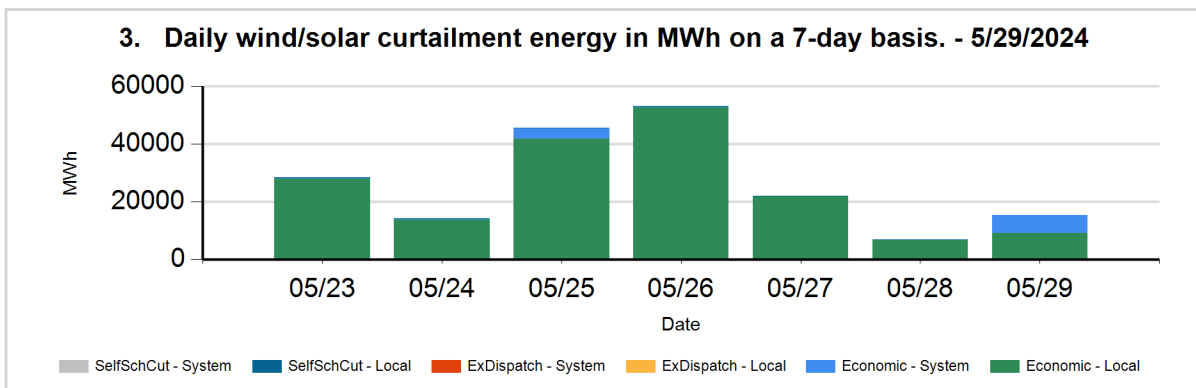
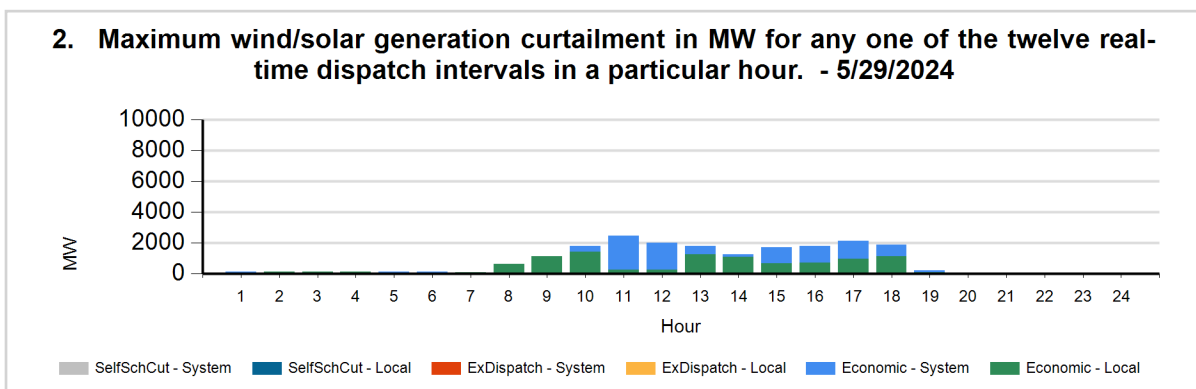
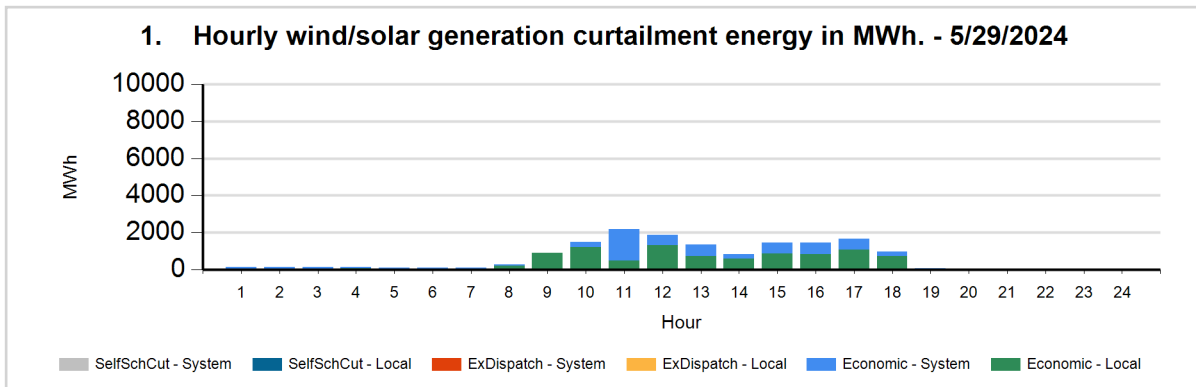
<sup>1</sup>Only wind and solar resources can be reported in this manner because these resources have a forecast. Curtailment is defined as the difference between actual production and the forecast when actual production is less than the forecast.

<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>.

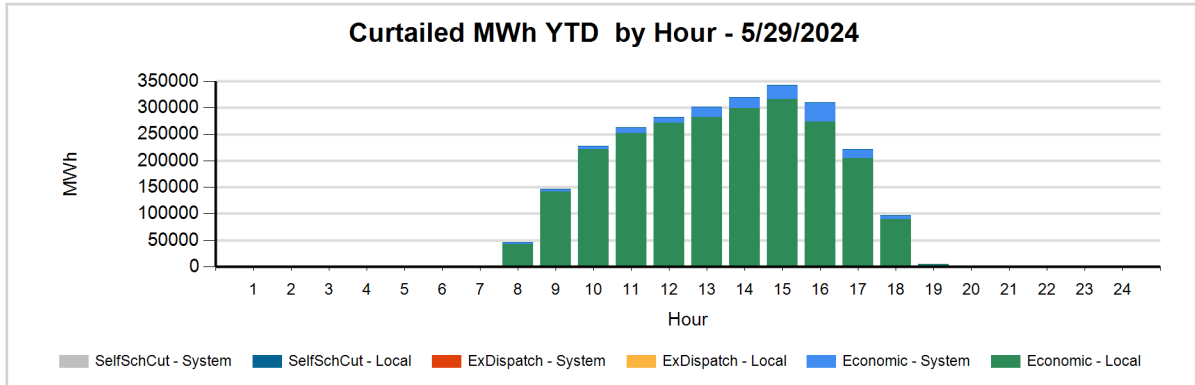
<sup>3</sup>Congestion occurs when available, least-cost energy cannot be delivered to some loads because transmission facilities do not have sufficient capacity to deliver the energy.

<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)

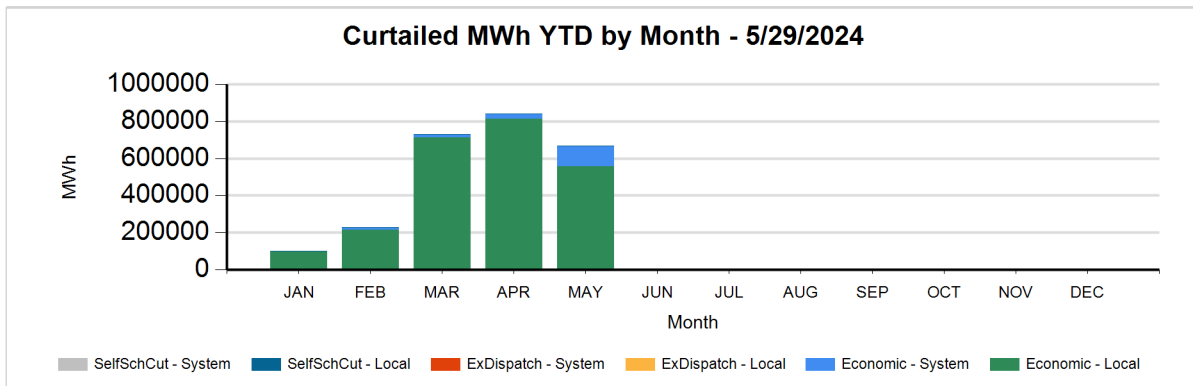
The following charts show the daily and 7-day wind and solar curtailment by category, if any.



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 - 5/29/2024
LocalEconomic	2,400,274
LocalSelfSchCut	1,537
SystemEconomic	167,291
TOTAL	2,569,102

### Data used to produce hourly chart

DATE	HOUR	CURT TYPE	REASON	FUEL TYPE	CURTAILED MWH	CURTAILED MW
05/29	1	Economic	Local	WIND	32	
05/29	1	Economic	System	WIND	95	128
05/29	2	Economic	Local	WIND	32	129
05/29	2	Economic	System	WIND	96	
05/29	3	Economic	Local	WIND	42	128
05/29	3	Economic	System	WIND	84	
05/29	4	Economic	Local	WIND	52	126
05/29	4	Economic	System	WIND	72	
05/29	5	Economic	Local	WIND	18	
05/29	5	Economic	System	WIND	91	121
05/29	6	Economic	Local	WIND	31	
05/29	6	Economic	System	WIND	64	109
05/29	7	Economic	Local	SOLR	6	26
05/29	7	Economic	Local	WIND	23	67
05/29	7	Economic	System	SOLR	5	
05/29	7	Economic	System	WIND	50	
05/29	8	Economic	Local	SOLR	215	561
05/29	8	Economic	Local	WIND	4	53
05/29	8	Economic	System	SOLR	5	
05/29	8	Economic	System	WIND	40	
05/29	9	Economic	Local	SOLR	756	837
05/29	9	Economic	Local	WIND	142	298
05/29	10	Economic	Local	SOLR	1095	1271
05/29	10	Economic	Local	WIND	125	134
05/29	10	Economic	System	SOLR	261	384
05/29	10	Economic	System	WIND	12	
05/29	11	Economic	Local	SOLR	474	238
05/29	11	Economic	Local	WIND	23	
05/29	11	Economic	System	SOLR	1539	2050
05/29	11	Economic	System	WIND	134	189
05/29	12	Economic	Local	SOLR	1217	227

05/29	12	Economic	Local	WIND	102	
05/29	12	Economic	System	SOLR	500	1651
05/29	12	Economic	System	WIND	41	141
05/29	13	Economic	Local	SOLR	630	1113
05/29	13	Economic	Local	WIND	85	135
05/29	13	Economic	System	SOLR	574	546
05/29	13	Economic	System	WIND	48	
05/29	14	Economic	Local	SOLR	548	1094
05/29	14	Economic	Local	WIND	24	5
05/29	14	Economic	System	SOLR	237	134
05/29	14	Economic	System	WIND	16	
05/29	15	Economic	Local	SOLR	683	525
05/29	15	Economic	Local	WIND	178	137
05/29	15	Economic	System	SOLR	513	925
05/29	15	Economic	System	WIND	71	100
05/29	16	Economic	Local	SOLR	662	567
05/29	16	Economic	Local	WIND	156	138
05/29	16	Economic	System	SOLR	544	979
05/29	16	Economic	System	WIND	97	104
05/29	17	Economic	Local	SOLR	840	823
05/29	17	Economic	Local	WIND	217	132
05/29	17	Economic	System	SOLR	519	1051
05/29	17	Economic	System	WIND	72	135
05/29	18	Economic	Local	SOLR	599	925
05/29	18	Economic	Local	WIND	138	211
05/29	18	Economic	System	SOLR	187	623
05/29	18	Economic	System	WIND	34	115
05/29	19	Economic	Local	SOLR	40	58
05/29	19	Economic	Local	WIND	1	
05/29	19	Economic	System	SOLR	35	134
05/29	20	Economic	Local	WIND	1	3
05/29	20	Economic	System	SOLR	7	22
05/29	21	Economic	Local	WIND	1	10



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).