

Wind and Solar Curtailment May 19, 2025

This report is produced daily to provide a detailed accounting of the wind and solar renewable generation that was curtailed and the reasons why¹. This report should be read in the context of the Renewables Watch report for a more complete understanding of both renewable curtailment and generation².

Wind and solar curtailments are grouped into the following categories:

1. Economic - Local: Market dispatch of generators with economic bids to mitigate local congestion³.
2. Economic - System: Market dispatch of generators with economic bids to mitigate system-wide oversupply⁴.
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.

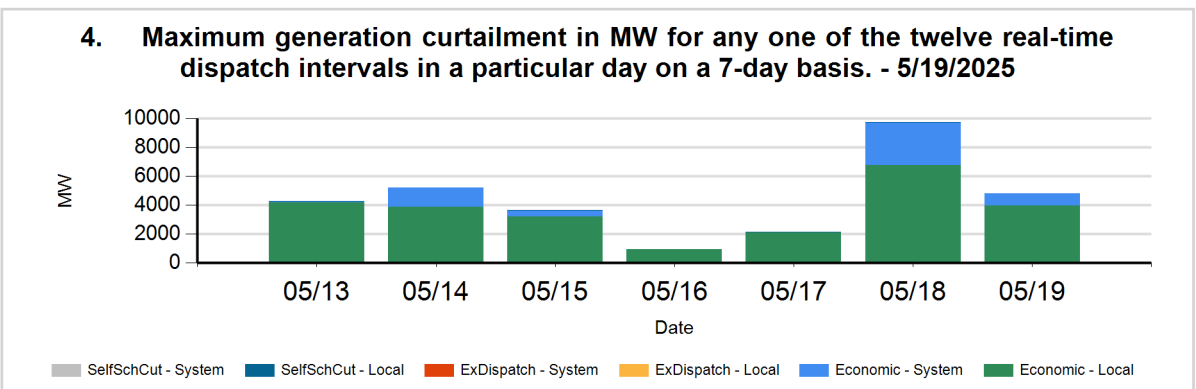
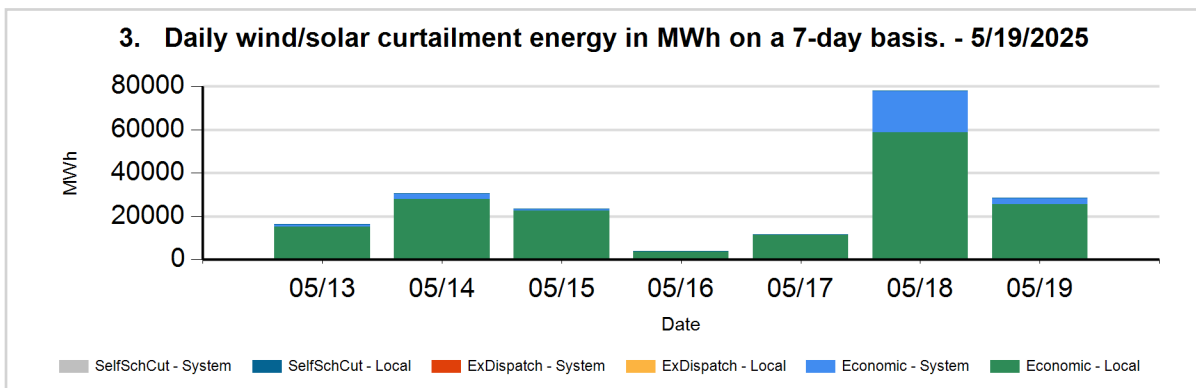
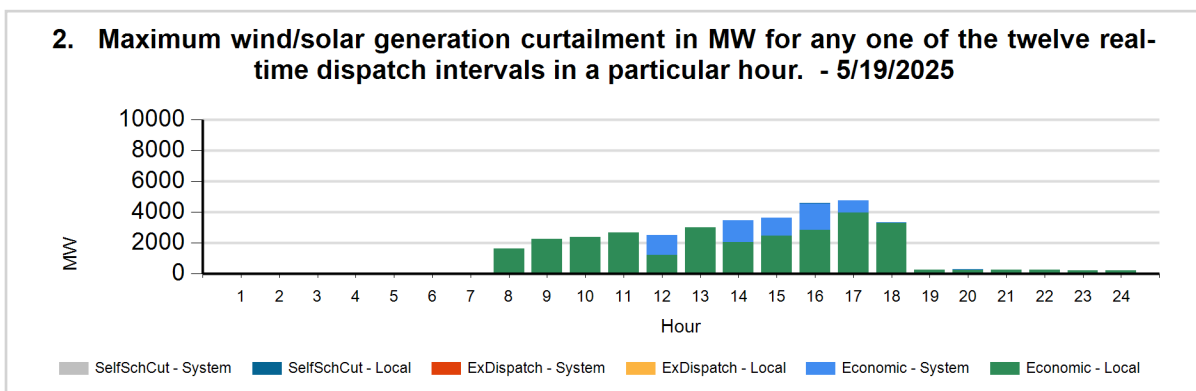
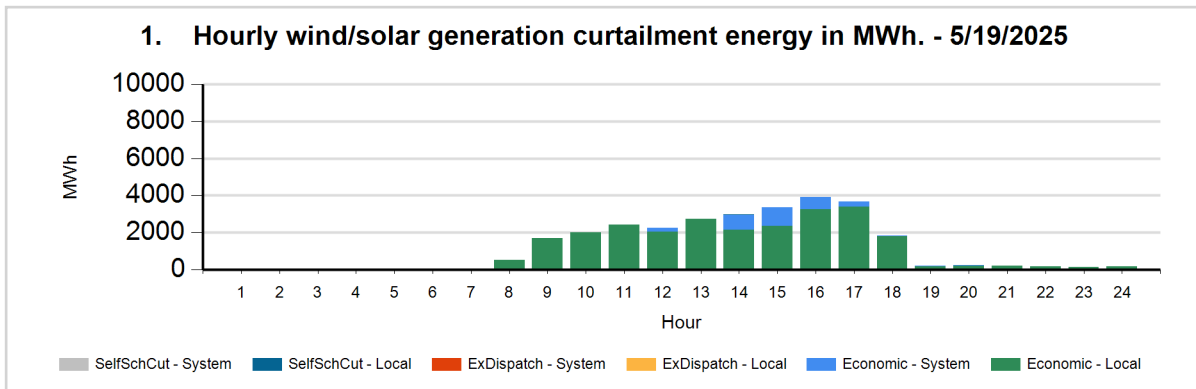
¹Only wind and solar resources can be reported in this manner because these resources have a forecast. Curtailment is defined as the difference between actual production and the forecast when actual production is less than the forecast.

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

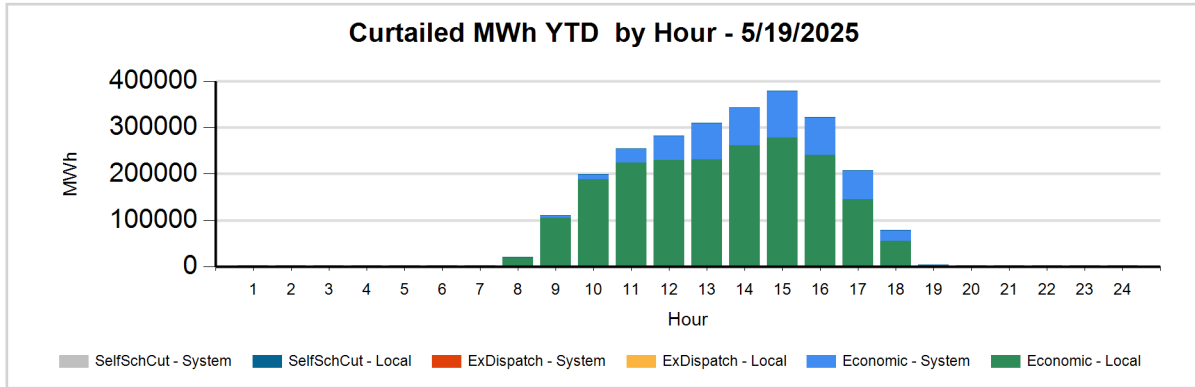
³Congestion occurs when available, least-cost energy cannot be delivered to some loads because transmission facilities do not have sufficient capacity to deliver the energy.

⁴For more information on oversupply conditions, please see: http://www.caiso.com/Documents/FlexibleResourcesHelpRenewables_FastFacts.pdf

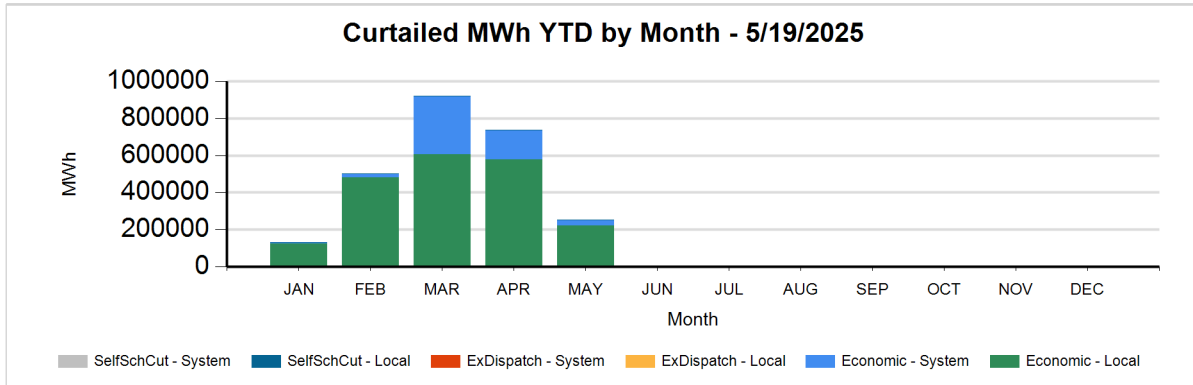
The following charts show the daily and 7-day wind and solar curtailment by category, if any.



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 - 5/19/2025
LocalEconomic	2,011,182
LocalSelfSchCut	1,093
SystemEconomic	530,853
TOTAL	2,543,128

Data used to produce hourly chart

DATE	HOUR	CURT TYPE	REASON	FUEL TYPE	CURTAILED MWH	CURTAILED MW
05/19	7	Economic	Local	SOLR	1	6
05/19	8	Economic	Local	SOLR	511	1562
05/19	8	Economic	Local	WIND	18	42
05/19	9	Economic	Local	SOLR	1601	2154
05/19	9	Economic	Local	WIND	99	94
05/19	10	Economic	Local	SOLR	1909	2286
05/19	10	Economic	Local	WIND	78	77
05/19	11	Economic	Local	SOLR	2380	2645
05/19	11	Economic	Local	WIND	25	17
05/19	12	Economic	Local	SOLR	2008	1193
05/19	12	Economic	Local	WIND	21	17
05/19	12	Economic	System	SOLR	202	1266
05/19	12	Economic	System	WIND	1	4
05/19	13	Economic	Local	SOLR	2677	2932
05/19	13	Economic	Local	WIND	42	52
05/19	13	Economic	System	WIND	0	
05/19	13	SelfSchCut	Local	SOLR	0	
05/19	14	Economic	Local	SOLR	2017	1910
05/19	14	Economic	Local	WIND	108	145
05/19	14	Economic	System	SOLR	833	1407
05/19	14	Economic	System	WIND	8	11
05/19	14	SelfSchCut	Local	SOLR	3	
05/19	15	Economic	Local	SOLR	2174	2328
05/19	15	Economic	Local	WIND	159	146
05/19	15	Economic	System	SOLR	1006	1151
05/19	15	Economic	System	WIND	11	14
05/19	15	SelfSchCut	Local	SOLR	0	
05/19	16	Economic	Local	SOLR	2970	2613
05/19	16	Economic	Local	WIND	286	218
05/19	16	Economic	System	SOLR	636	1660
05/19	16	Economic	System	WIND	21	90

05/19	16	SelfSchCut	Local	SOLR	0	1
05/19	17	Economic	Local	SOLR	2989	3525
05/19	17	Economic	Local	WIND	404	422
05/19	17	Economic	System	SOLR	264	792
05/19	17	Economic	System	WIND	12	32
05/19	18	Economic	Local	SOLR	1503	2909
05/19	18	Economic	Local	WIND	284	380
05/19	18	Economic	System	SOLR	14	14
05/19	18	Economic	System	WIND	15	31
05/19	19	Economic	Local	SOLR	21	
05/19	19	Economic	Local	WIND	181	235
05/19	19	Economic	System	SOLR	4	
05/19	20	Economic	Local	WIND	222	255
05/19	20	Economic	System	SOLR	14	20
05/19	21	Economic	Local	WIND	204	264
05/19	22	Economic	Local	WIND	154	251
05/19	23	Economic	Local	WIND	151	194
05/19	24	Economic	Local	WIND	160	223

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.