

Wind and Solar Curtailment May 06, 2024

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.

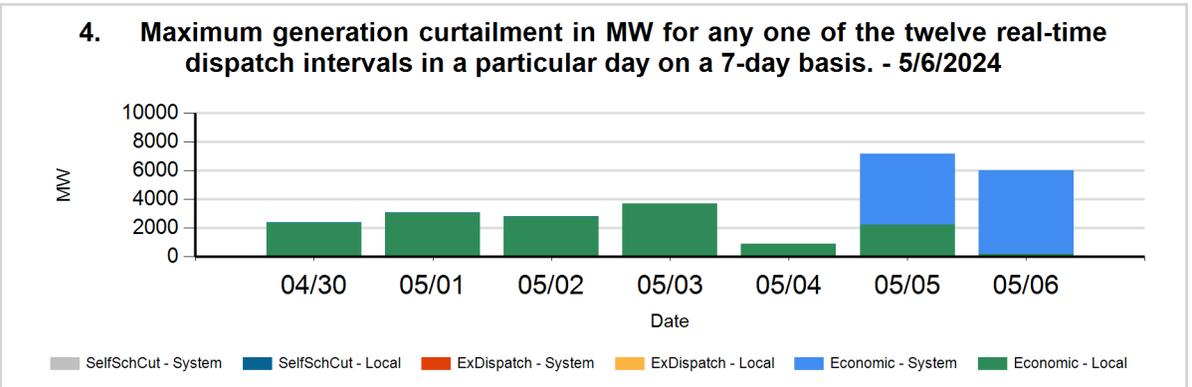
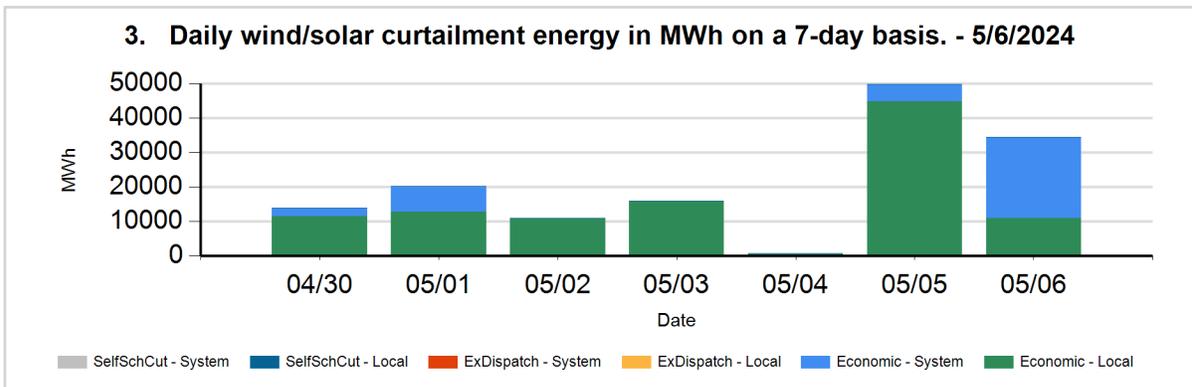
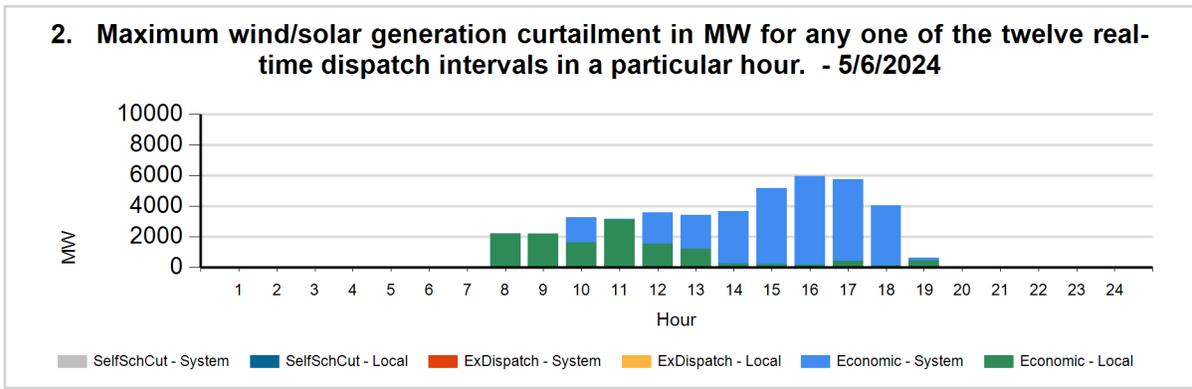
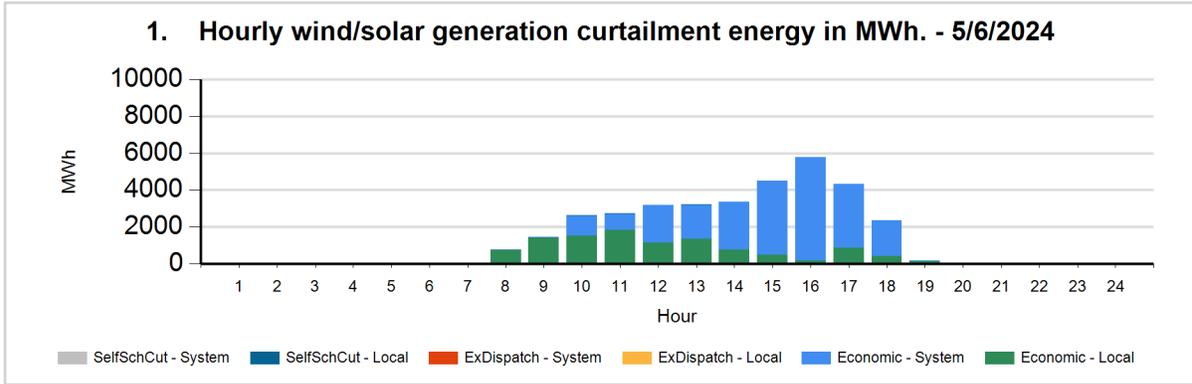
²The Renewables Watch report provides daily actual renewable production within the ISO grid. It is available at: <http://www.caiso.com/green/renewableswatch.html>.

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.

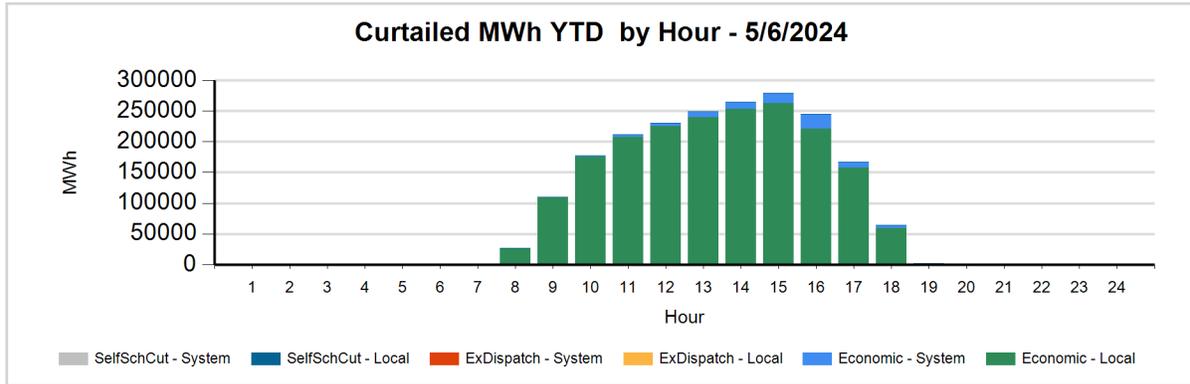
⁴For more information on oversupply conditions, please see:

https://www.caiso.com/Documents/FlexibleResourcesHelpRenewables_FastFacts.pdf

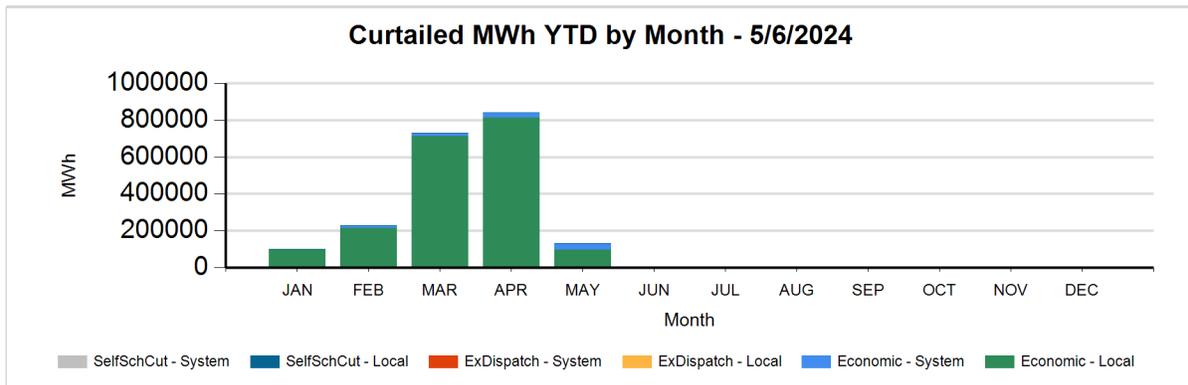
The following charts show the daily and 7-day wind and solar curtailment by category, if any.



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 - 5/6/2024
LocalEconomic	1,938,681
LocalSelfSchCut	1,281
SystemEconomic	91,735
TOTAL	2,031,697

Data used to produce hourly chart

DATE	HOUR	CURT TYPE	REASON	FUEL TYPE	CURTAILED MWH	CURTAILED MW
05/06	8	Economic	Local	SOLR	692	2011
05/06	8	Economic	Local	WIND	57	195
05/06	8	Economic	System	SOLR	2	
05/06	8	SelfSchCut	Local	SOLR	2	10
05/06	9	Economic	Local	SOLR	1358	2157
05/06	9	Economic	Local	WIND	95	43
05/06	9	Economic	System	WIND	10	22
05/06	10	Economic	Local	SOLR	1472	1577
05/06	10	Economic	Local	WIND	62	45
05/06	10	Economic	System	SOLR	1043	1584
05/06	10	Economic	System	WIND	32	50
05/06	10	SelfSchCut	Local	SOLR	2	2
05/06	11	Economic	Local	SOLR	1787	3033
05/06	11	Economic	Local	WIND	50	89
05/06	11	Economic	System	SOLR	842	
05/06	11	Economic	System	WIND	44	40
05/06	11	SelfSchCut	Local	SOLR	2	
05/06	12	Economic	Local	SOLR	1127	1507
05/06	12	Economic	Local	WIND	7	14
05/06	12	Economic	System	SOLR	1960	1968
05/06	12	Economic	System	WIND	79	82
05/06	13	Economic	Local	SOLR	1330	1184
05/06	13	Economic	Local	WIND	16	16
05/06	13	Economic	System	SOLR	1819	2150
05/06	13	Economic	System	WIND	63	61
05/06	13	SelfSchCut	Local	SOLR	3	
05/06	14	Economic	Local	SOLR	745	238
05/06	14	Economic	Local	WIND	22	
05/06	14	Economic	System	SOLR	2464	3183
05/06	14	Economic	System	WIND	131	236
05/06	15	Economic	Local	SOLR	444	202

05/06	15	Economic	Local	WIND	20	
05/06	15	Economic	System	SOLR	3727	4575
05/06	15	Economic	System	WIND	318	411
05/06	16	Economic	Local	SOLR	166	181
05/06	16	Economic	System	SOLR	5155	5246
05/06	16	Economic	System	WIND	450	551
05/06	17	Economic	Local	SOLR	807	431
05/06	17	Economic	Local	WIND	46	
05/06	17	Economic	System	SOLR	3072	4817
05/06	17	Economic	System	WIND	385	508
05/06	18	Economic	Local	SOLR	404	136
05/06	18	Economic	Local	WIND	6	
05/06	18	Economic	System	SOLR	1602	3343
05/06	18	Economic	System	WIND	341	580
05/06	19	Economic	Local	SOLR	142	427
05/06	19	Economic	Local	WIND	4	11
05/06	19	Economic	System	SOLR	5	20
05/06	19	Economic	System	WIND	24	146

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.