

Wind and Solar Curtailment May 01, 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.

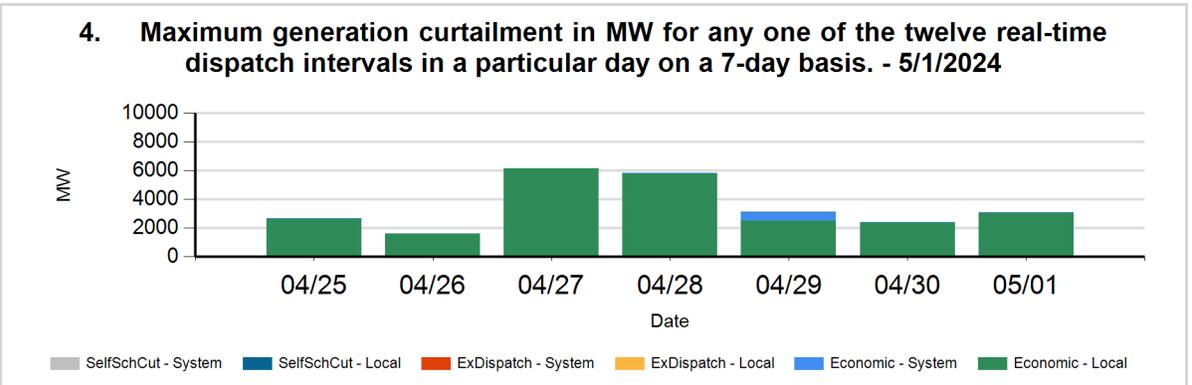
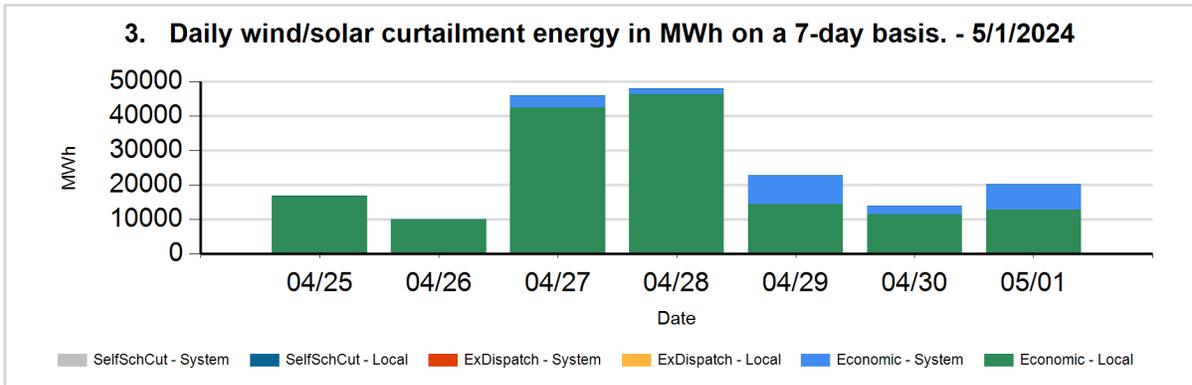
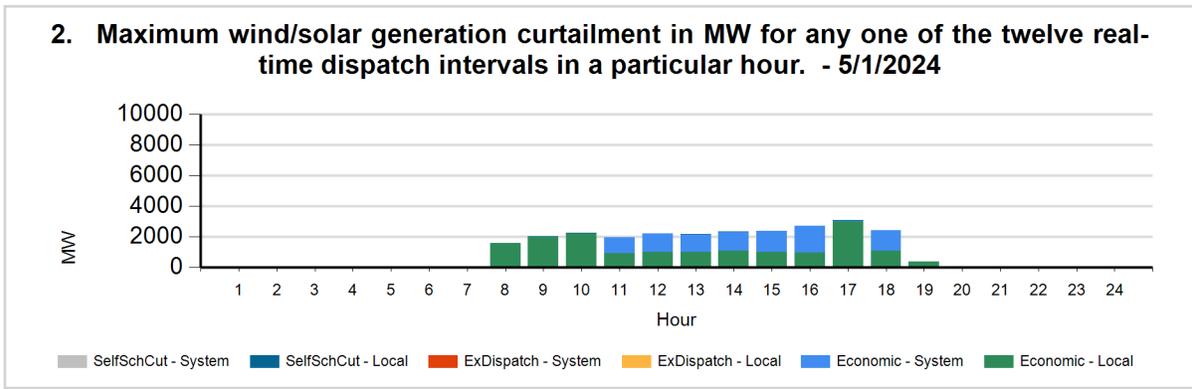
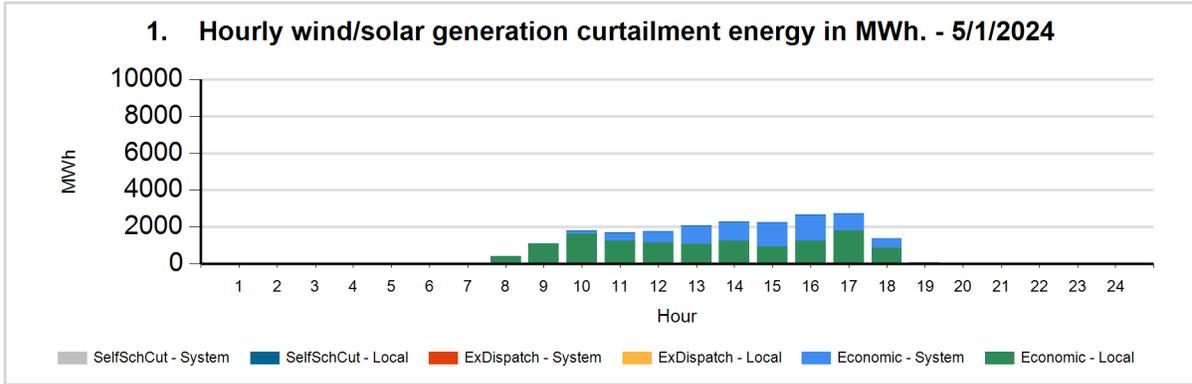
²The Renewables Watch report provides daily actual renewable production within the ISO grid. It is available at: <http://www.caiso.com/green/renewableswatch.html>.

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.

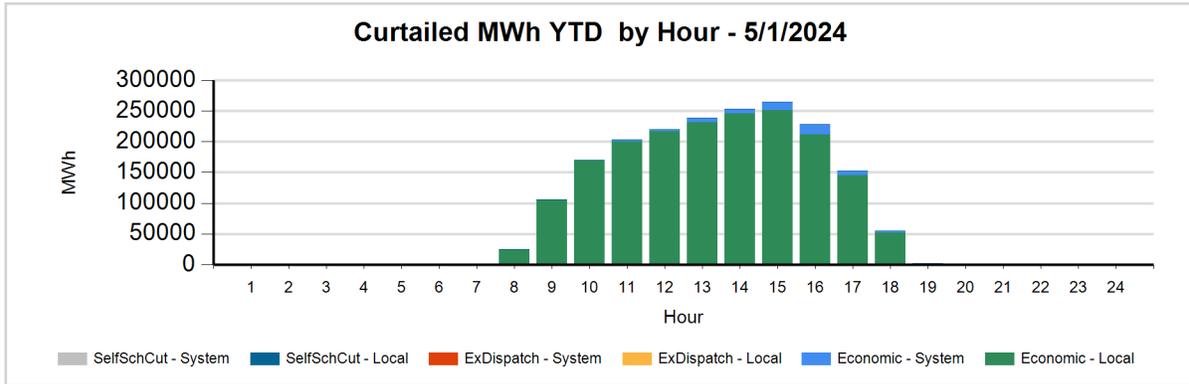
⁴For more information on oversupply conditions, please see:

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

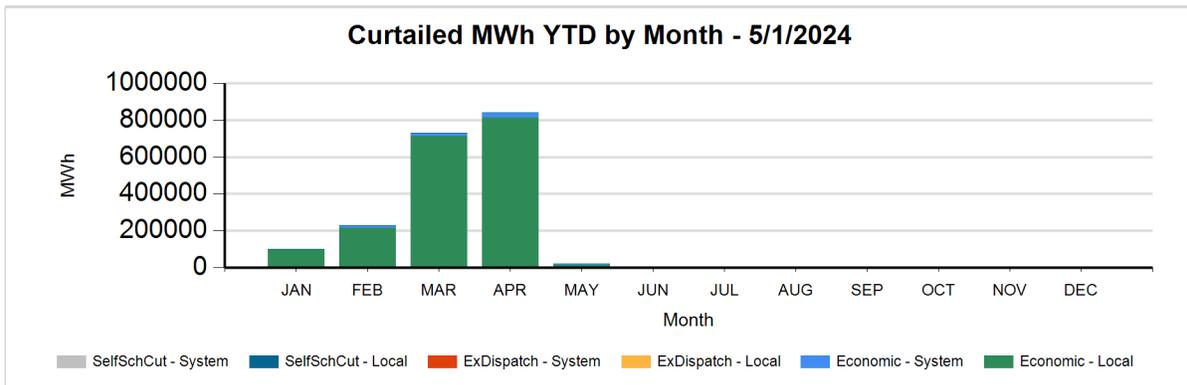
The following charts show the daily and 7-day wind and solar curtailment by category, if any.



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 - 5/1/2024
LocalEconomic	1,855,610
LocalSelfSchCut	1,148
SystemEconomic	63,153
TOTAL	1,919,911

Data used to produce hourly chart

DATE	HOUR	CURT TYPE	REASON	FUEL TYPE	CURTAILED MWH	CURTAILED MW
05/01	8	Economic	Local	SOLR	397	1561
05/01	9	Economic	Local	SOLR	1097	2010
05/01	9	Economic	System	WIND	4	10
05/01	10	Economic	Local	SOLR	1612	2235
05/01	10	Economic	System	SOLR	158	
05/01	10	Economic	System	WIND	10	18
05/01	10	SelfSchCut	Local	SOLR	4	1
05/01	11	Economic	Local	SOLR	1248	921
05/01	11	Economic	System	SOLR	422	1045
05/01	11	Economic	System	WIND	10	4
05/01	11	SelfSchCut	Local	SOLR	3	
05/01	12	Economic	Local	SOLR	1154	996
05/01	12	Economic	Local	WIND	1	
05/01	12	Economic	System	SOLR	595	1191
05/01	12	Economic	System	WIND	5	6
05/01	12	SelfSchCut	Local	SOLR	5	
05/01	13	Economic	Local	SOLR	1083	1010
05/01	13	Economic	Local	WIND	0	
05/01	13	Economic	System	SOLR	982	1137
05/01	13	Economic	System	WIND	6	6
05/01	13	SelfSchCut	Local	SOLR	5	2
05/01	14	Economic	Local	SOLR	1247	1065
05/01	14	Economic	Local	WIND	1	
05/01	14	Economic	System	SOLR	1008	1273
05/01	14	Economic	System	WIND	6	4
05/01	14	SelfSchCut	Local	SOLR	3	2
05/01	15	Economic	Local	SOLR	941	991
05/01	15	Economic	System	SOLR	1297	1356
05/01	15	Economic	System	WIND	15	28
05/01	15	SelfSchCut	Local	SOLR	2	
05/01	16	Economic	Local	SOLR	1224	973

05/01	16	Economic	Local	WIND	2	
05/01	16	Economic	System	SOLR	1418	1717
05/01	16	Economic	System	WIND	11	26
05/01	16	SelfSchCut	Local	SOLR	3	
05/01	17	Economic	Local	SOLR	1730	2966
05/01	17	Economic	Local	WIND	49	90
05/01	17	Economic	System	SOLR	925	
05/01	17	Economic	System	WIND	29	6
05/01	17	SelfSchCut	Local	SOLR	3	2
05/01	18	Economic	Local	SOLR	845	1070
05/01	18	Economic	Local	WIND	2	
05/01	18	Economic	System	SOLR	502	1290
05/01	18	Economic	System	WIND	17	59
05/01	19	Economic	Local	SOLR	70	354
05/01	19	Economic	Local	WIND	1	
05/01	19	Economic	System	WIND	0	
05/01	21	Economic	Local	WIND	0	2

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.