

Wind and Solar Curtailment May 05, 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.

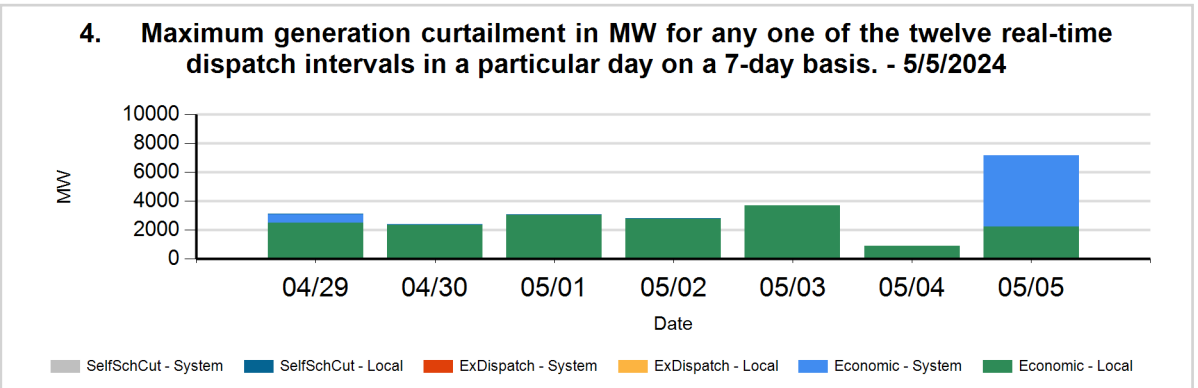
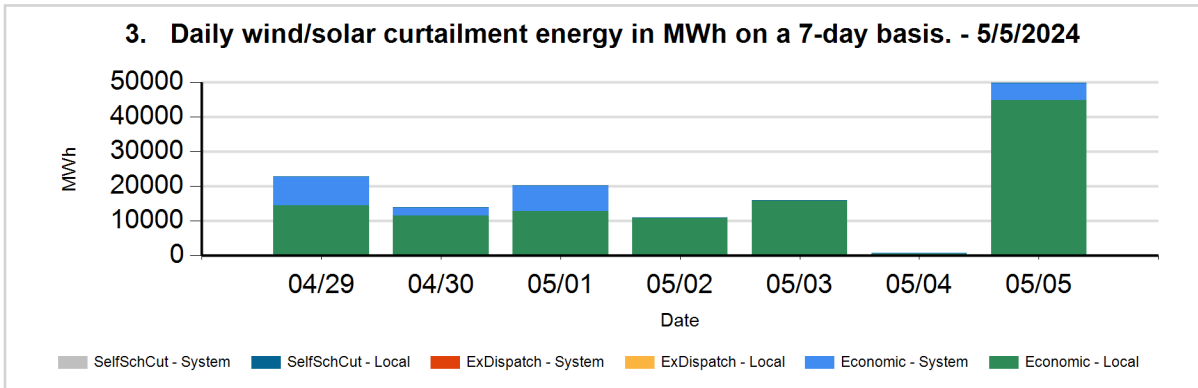
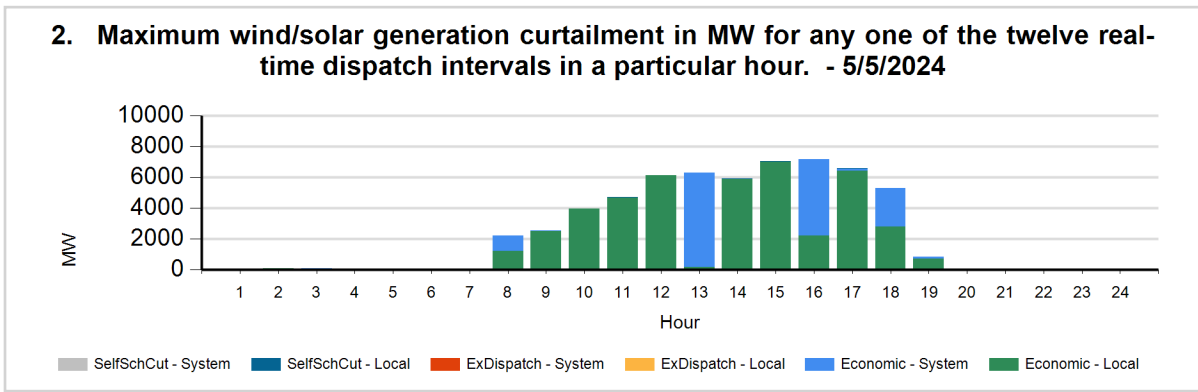
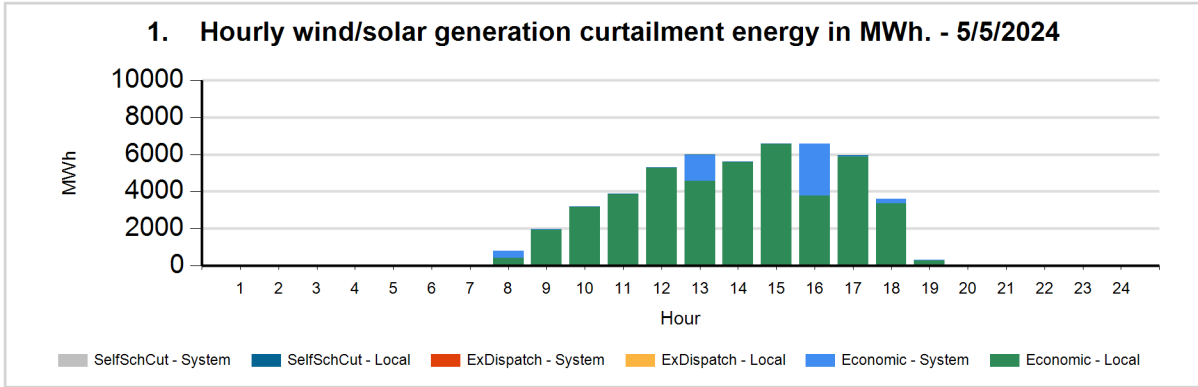
²The Renewables Watch report provides daily actual renewable production within the ISO grid. It is available at: <http://www.caiso.com/green/renewableswatch.html>.

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.

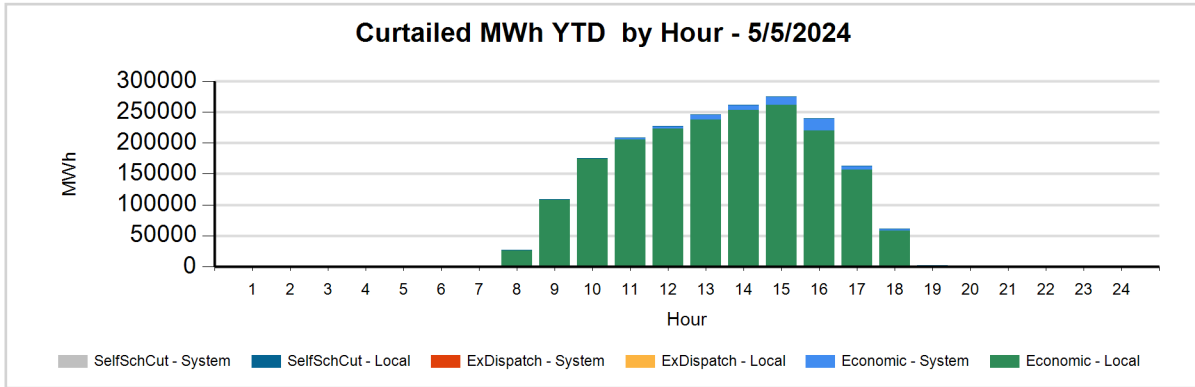
⁴For more information on oversupply conditions, please see:

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

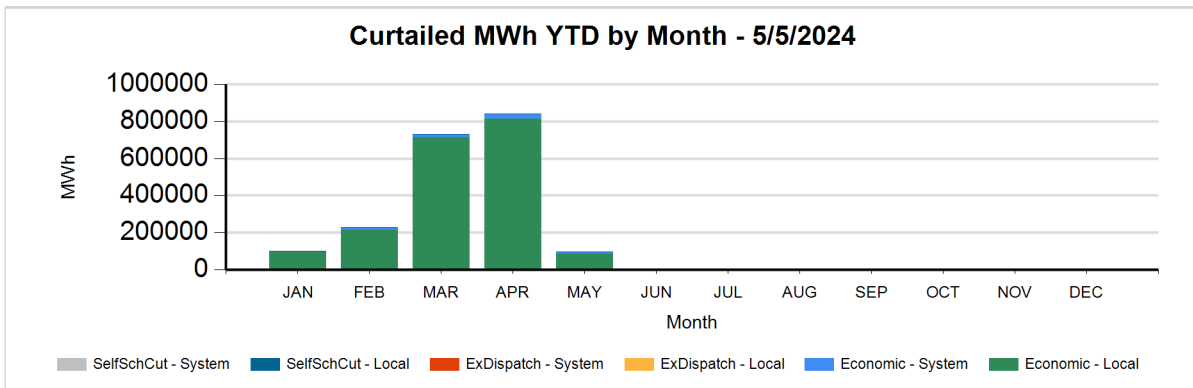
The following charts show the daily and 7-day wind and solar curtailment by category, if any.



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 - 5/5/2024
LocalEconomic	1,927,823
LocalSelfSchCut	1,272
SystemEconomic	68,167
TOTAL	1,997,261

Data used to produce hourly chart

DATE	HOUR	CURT TYPE	REASON	FUEL TYPE	CURTAILED MWH	CURTAILED MW
05/05	1	Economic	System	WIND	4	29
05/05	2	Economic	Local	WIND	22	62
05/05	2	Economic	System	WIND	21	
05/05	3	Economic	Local	WIND	16	
05/05	3	Economic	System	WIND	31	75
05/05	4	Economic	Local	WIND	8	42
05/05	4	Economic	System	WIND	14	
05/05	5	Economic	Local	WIND	10	
05/05	5	Economic	System	WIND	18	41
05/05	6	Economic	Local	WIND	1	
05/05	6	Economic	System	WIND	2	9
05/05	8	Economic	Local	SOLR	358	1015
05/05	8	Economic	Local	WIND	44	177
05/05	8	Economic	System	SOLR	341	864
05/05	8	Economic	System	WIND	66	159
05/05	9	Economic	Local	SOLR	1707	2138
05/05	9	Economic	Local	WIND	268	397
05/05	9	Economic	System	WIND	8	15
05/05	10	Economic	Local	SOLR	2875	3643
05/05	10	Economic	Local	WIND	319	316
05/05	10	SelfSchCut	Local	SOLR	1	
05/05	11	Economic	Local	SOLR	3412	4086
05/05	11	Economic	Local	WIND	445	601
05/05	11	Economic	System	WIND	10	19
05/05	11	SelfSchCut	Local	SOLR	2	8
05/05	12	Economic	Local	SOLR	4536	5309
05/05	12	Economic	Local	WIND	753	834
05/05	12	Economic	System	WIND	2	
05/05	12	SelfSchCut	Local	SOLR	4	
05/05	13	Economic	Local	SOLR	3992	162
05/05	13	Economic	Local	WIND	586	

05/05	13	Economic	System	SOLR	1183	5252
05/05	13	Economic	System	WIND	204	900
05/05	13	SelfSchCut	Local	SOLR	5	
05/05	14	Economic	Local	SOLR	4862	5071
05/05	14	Economic	Local	WIND	744	818
05/05	14	SelfSchCut	Local	SOLR	4	12
05/05	15	Economic	Local	SOLR	5791	6301
05/05	15	Economic	Local	WIND	765	721
05/05	15	Economic	System	SOLR	0	
05/05	15	Economic	System	WIND	3	
05/05	15	SelfSchCut	Local	SOLR	4	12
05/05	16	Economic	Local	SOLR	3427	2213
05/05	16	Economic	Local	WIND	330	
05/05	16	Economic	System	SOLR	2348	4128
05/05	16	Economic	System	WIND	467	819
05/05	17	Economic	Local	SOLR	5161	5571
05/05	17	Economic	Local	WIND	748	864
05/05	17	Economic	System	WIND	22	138
05/05	17	SelfSchCut	Local	SOLR	2	3
05/05	18	Economic	Local	SOLR	2848	2315
05/05	18	Economic	Local	WIND	491	459
05/05	18	Economic	System	SOLR	181	2094
05/05	18	Economic	System	WIND	66	415
05/05	18	SelfSchCut	Local	SOLR	0	
05/05	19	Economic	Local	SOLR	278	580
05/05	19	Economic	Local	WIND	22	123
05/05	19	Economic	System	SOLR	11	87
05/05	19	Economic	System	WIND	8	27
05/05	20	Economic	Local	SOLR	1	11

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.



California ISO