

Wind and Solar Curtailment May 22, 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.

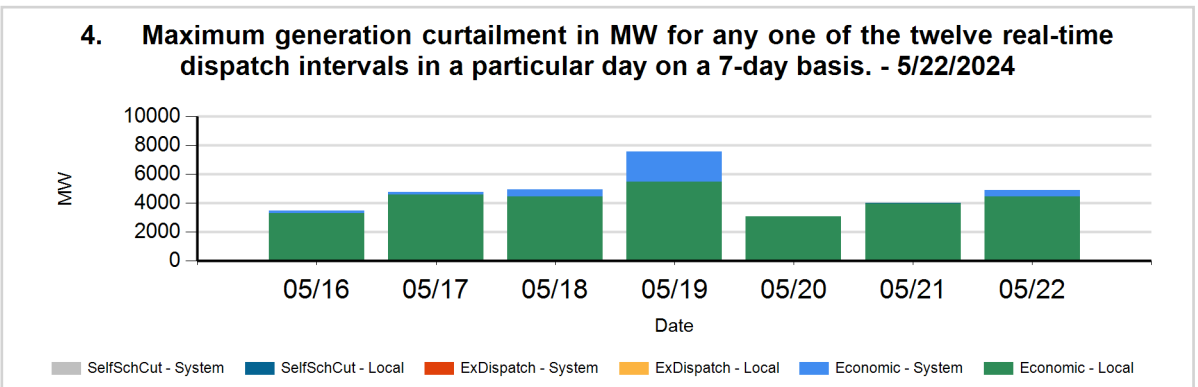
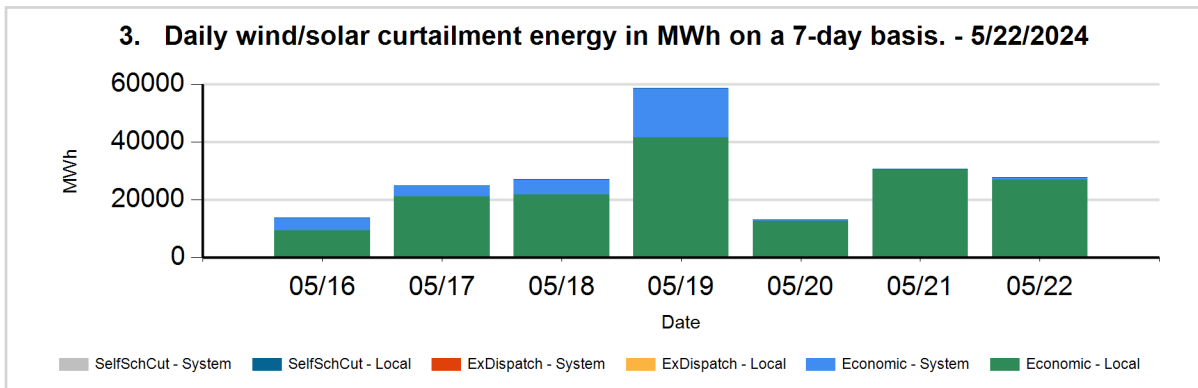
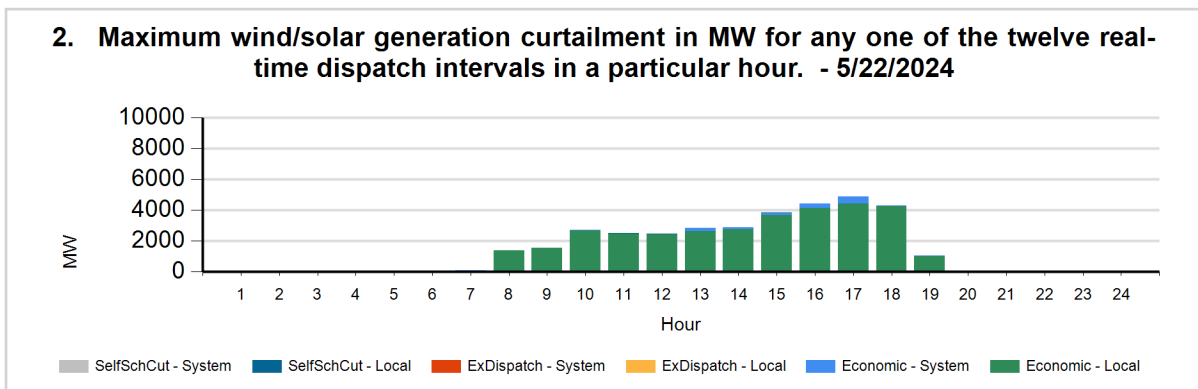
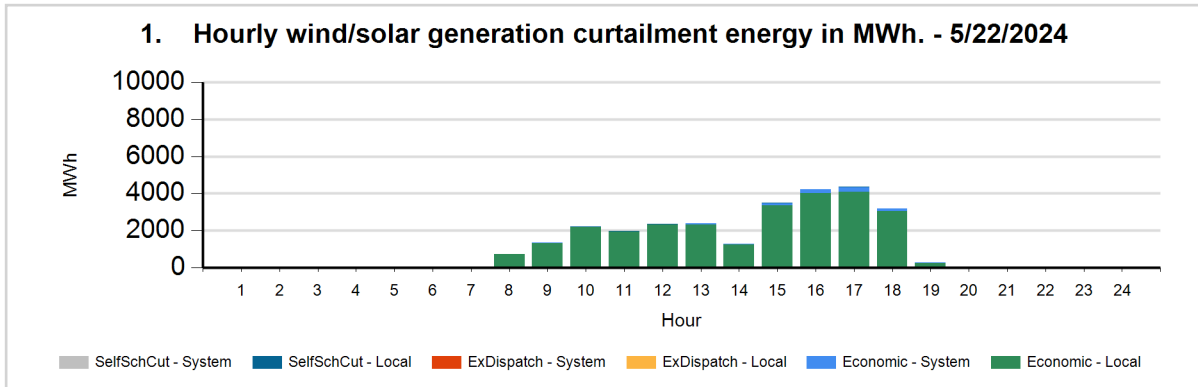
¹Only wind and solar resources can be reported in this manner because these resources have a forecast. Curtailment is defined as the difference between actual production and the forecast when actual production is less than the forecast.

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

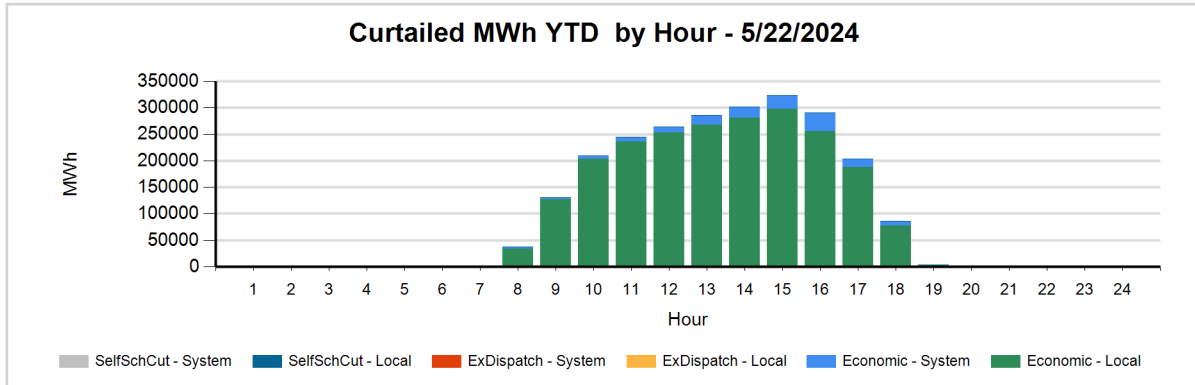
³Congestion occurs when available, least-cost energy cannot be delivered to some loads because transmission facilities do not have sufficient capacity to deliver the energy.

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

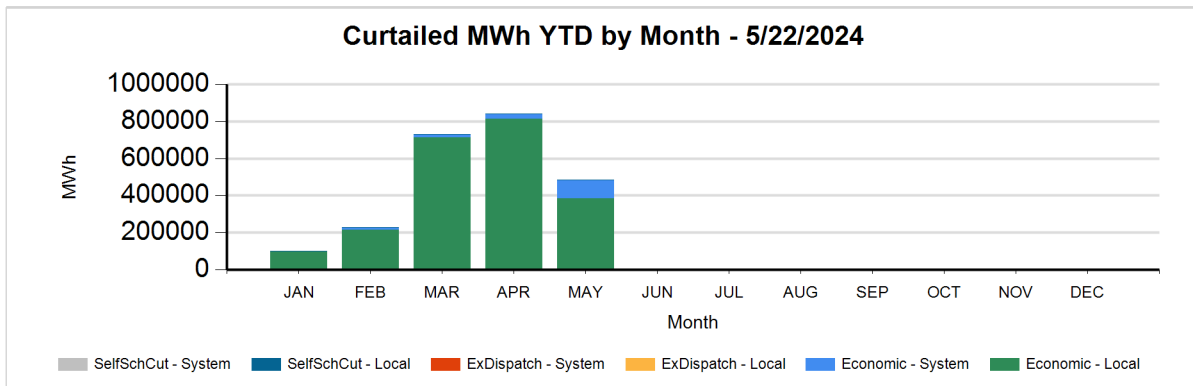
The following charts show the daily and 7-day wind and solar curtailment by category, if any.



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 - 5/22/2024
LocalEconomic	2,225,993
LocalSelfSchCut	1,496
SystemEconomic	156,002
TOTAL	2,383,490

Data used to produce hourly chart

DATE	HOUR	CURT TYPE	REASON	FUEL TYPE	CURTAILED MWH	CURTAILED MW
05/22	3	Economic	Local	WIND	0	2
05/22	4	Economic	Local	WIND	0	5
05/22	5	Economic	Local	WIND	2	4
05/22	6	Economic	Local	WIND	2	13
05/22	7	Economic	Local	SOLR	6	73
05/22	7	Economic	Local	WIND	11	8
05/22	7	Economic	System	SOLR	1	6
05/22	8	Economic	Local	SOLR	731	1373
05/22	8	Economic	Local	WIND	1	
05/22	9	Economic	Local	SOLR	1330	1537
05/22	9	Economic	System	WIND	2	
05/22	10	Economic	Local	SOLR	2200	2673
05/22	10	Economic	System	WIND	10	24
05/22	10	SelfSchCut	Local	SOLR	1	
05/22	11	Economic	Local	SOLR	1940	2450
05/22	11	Economic	Local	WIND	6	19
05/22	11	Economic	System	WIND	20	14
05/22	11	SelfSchCut	Local	SOLR	1	2
05/22	12	Economic	Local	SOLR	2322	2415
05/22	12	Economic	Local	WIND	8	
05/22	12	Economic	System	SOLR	12	
05/22	12	Economic	System	WIND	21	32
05/22	12	SelfSchCut	Local	SOLR	2	3
05/22	13	Economic	Local	SOLR	2277	2492
05/22	13	Economic	Local	WIND	48	141
05/22	13	Economic	System	SOLR	48	184
05/22	14	Economic	Local	SOLR	1124	2391
05/22	14	Economic	Local	WIND	105	360
05/22	14	Economic	System	SOLR	41	104
05/22	15	Economic	Local	SOLR	2977	3201
05/22	15	Economic	Local	WIND	392	457

05/22	15	Economic	System	SOLR	132	173
05/22	15	SelfSchCut	Local	SOLR	1	1
05/22	16	Economic	Local	SOLR	3351	3439
05/22	16	Economic	Local	WIND	656	681
05/22	16	Economic	System	SOLR	210	305
05/22	16	Economic	System	WIND	14	13
05/22	17	Economic	Local	SOLR	3367	3640
05/22	17	Economic	Local	WIND	726	797
05/22	17	Economic	System	SOLR	239	397
05/22	17	Economic	System	WIND	34	40
05/22	17	SelfSchCut	Local	SOLR	1	
05/22	18	Economic	Local	SOLR	2709	3851
05/22	18	Economic	Local	WIND	344	431
05/22	18	Economic	System	SOLR	117	
05/22	18	Economic	System	WIND	11	24
05/22	19	Economic	Local	SOLR	263	1018
05/22	19	Economic	Local	WIND	5	
05/22	19	Economic	System	SOLR	2	11
05/22	20	Economic	Local	WIND	1	2
05/22	20	Economic	System	SOLR	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.