

Wind and Solar Curtailment April 28, 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.

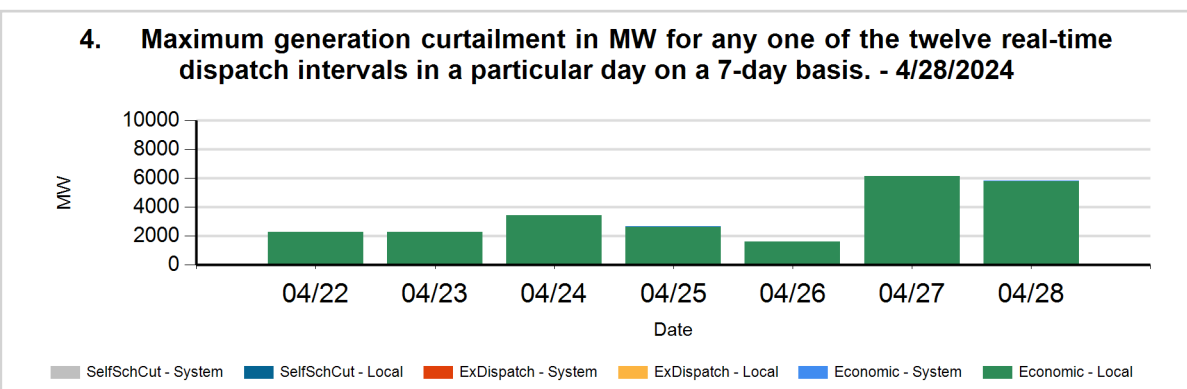
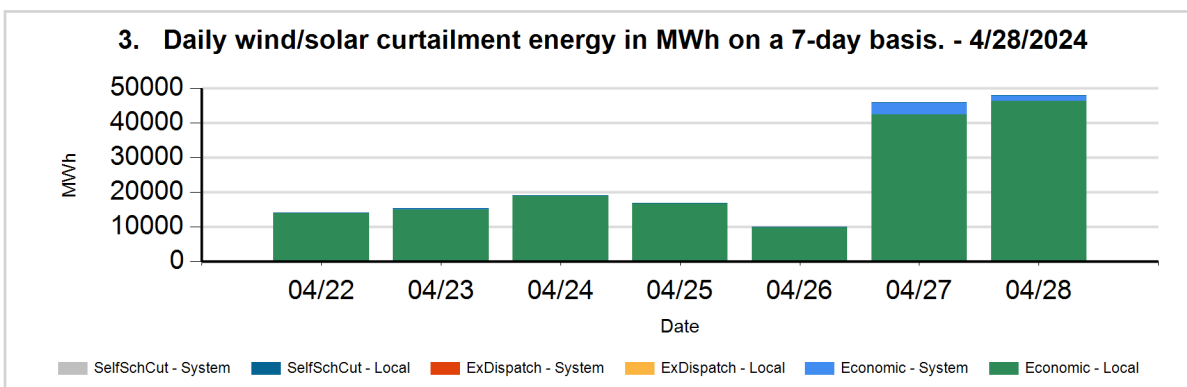
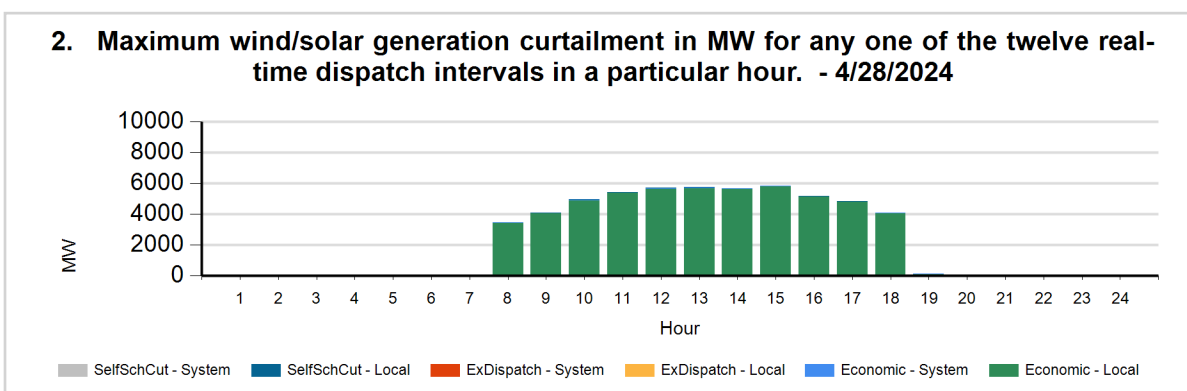
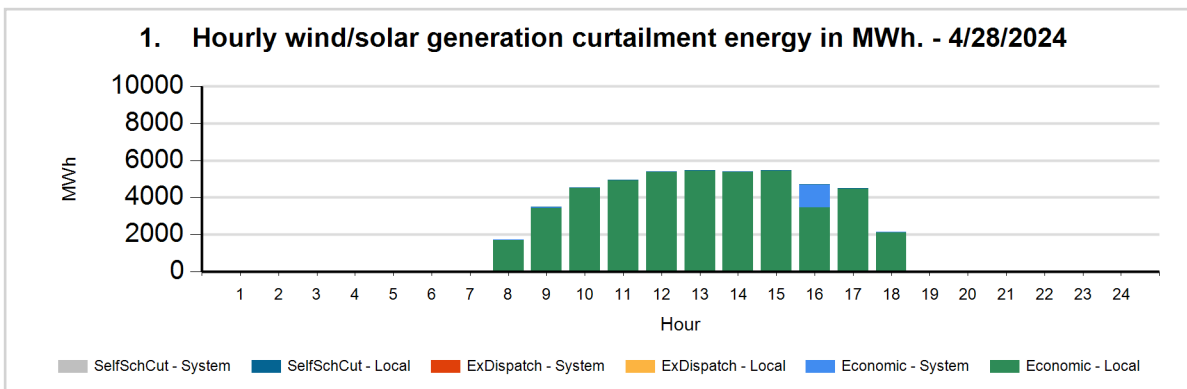
²The Renewables Watch report provides daily actual renewable production within the ISO grid. It is available at: <http://www.caiso.com/green/renewableswatch.html>.

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.

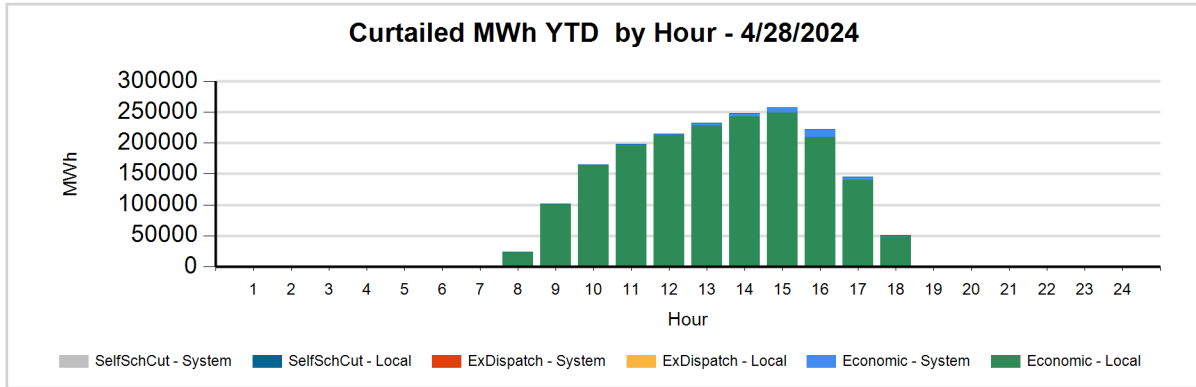
⁴For more information on oversupply conditions, please see:

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

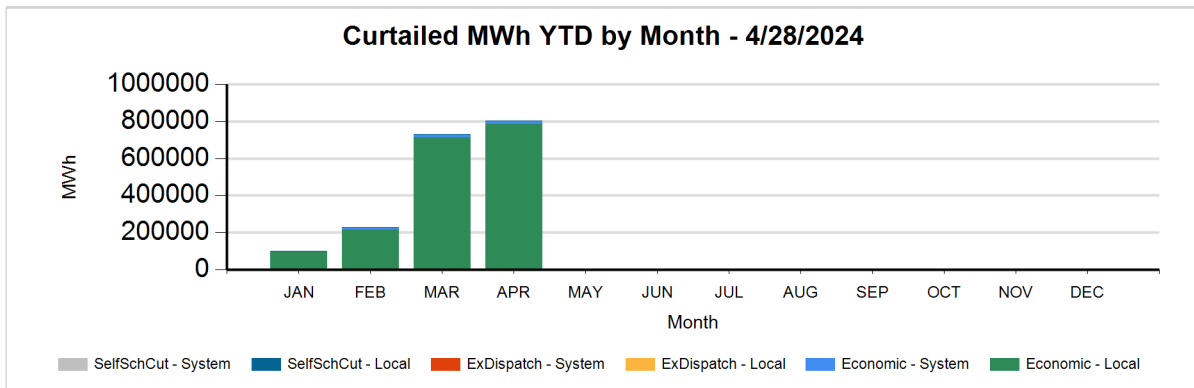
The following charts show the daily and 7-day wind and solar curtailment by category, if any.



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 - 4/28/2024
LocalEconomic	1,816,950
LocalSelfSchCut	1,095
SystemEconomic	45,109
TOTAL	1,863,155

Data used to produce hourly chart

DATE	HOUR	CURT TYPE	REASON	FUEL TYPE	CURTAILED MWH	CURTAILED MW
04/28	7	Economic	Local	SOLR	1	8
04/28	8	Economic	Local	SOLR	1510	3054
04/28	8	Economic	Local	WIND	171	370
04/28	8	Economic	System	SOLR	29	9
04/28	8	Economic	System	WIND	8	24
04/28	9	Economic	Local	SOLR	3236	3868
04/28	9	Economic	Local	WIND	198	206
04/28	9	Economic	System	SOLR	52	
04/28	9	Economic	System	WIND	18	26
04/28	9	SelfSchCut	Local	SOLR	2	4
04/28	10	Economic	Local	SOLR	4333	4765
04/28	10	Economic	Local	WIND	195	155
04/28	10	Economic	System	WIND	14	17
04/28	10	SelfSchCut	Local	SOLR	5	14
04/28	11	Economic	Local	SOLR	4777	5246
04/28	11	Economic	Local	WIND	157	166
04/28	11	Economic	System	WIND	10	
04/28	11	SelfSchCut	Local	SOLR	6	16
04/28	12	Economic	Local	SOLR	5232	5515
04/28	12	Economic	Local	WIND	120	115
04/28	12	Economic	System	SOLR	5	5
04/28	12	Economic	System	WIND	32	41
04/28	12	SelfSchCut	Local	SOLR	18	24
04/28	13	Economic	Local	SOLR	5336	5611
04/28	13	Economic	Local	WIND	122	109
04/28	13	Economic	System	SOLR	4	5
04/28	13	Economic	System	WIND	7	7
04/28	13	SelfSchCut	Local	SOLR	5	13
04/28	14	Economic	Local	SOLR	5208	5460
04/28	14	Economic	Local	WIND	177	200
04/28	14	Economic	System	SOLR	5	5

04/28	14	Economic	System	WIND	8	7
04/28	14	SelfSchCut	Local	SOLR	2	
04/28	15	Economic	Local	SOLR	5245	5585
04/28	15	Economic	Local	WIND	209	239
04/28	15	Economic	System	SOLR	5	5
04/28	15	Economic	System	WIND	8	8
04/28	15	SelfSchCut	Local	SOLR	5	
04/28	16	Economic	Local	SOLR	3237	4834
04/28	16	Economic	Local	WIND	214	307
04/28	16	Economic	System	SOLR	1183	5
04/28	16	Economic	System	WIND	64	13
04/28	16	SelfSchCut	Local	SOLR	3	9
04/28	17	Economic	Local	SOLR	4047	4520
04/28	17	Economic	Local	WIND	421	308
04/28	17	Economic	System	SOLR	6	5
04/28	17	Economic	System	WIND	26	13
04/28	17	SelfSchCut	Local	SOLR	5	5
04/28	18	Economic	Local	SOLR	1899	3605
04/28	18	Economic	Local	WIND	240	469
04/28	18	Economic	System	SOLR	9	
04/28	18	Economic	System	WIND	11	15
04/28	19	Economic	Local	SOLR	36	75
04/28	19	Economic	System	SOLR	9	59

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.