

Wind and Solar Curtailment April 10, 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.

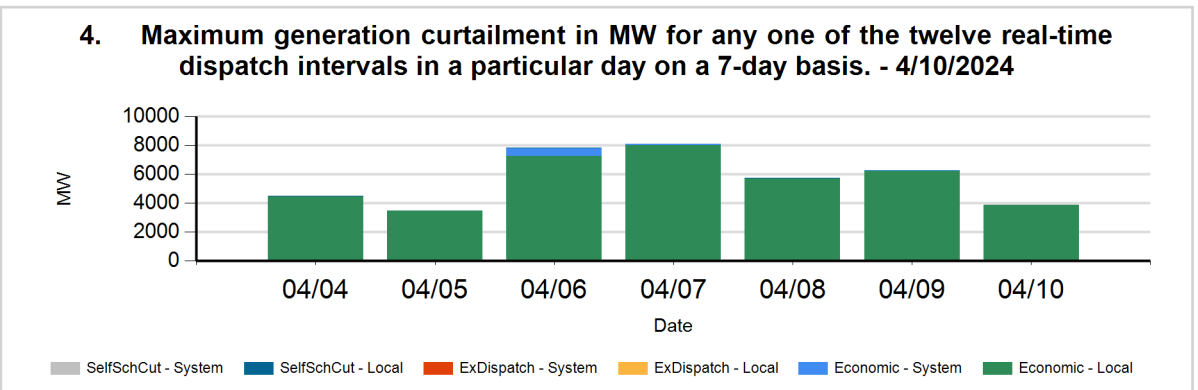
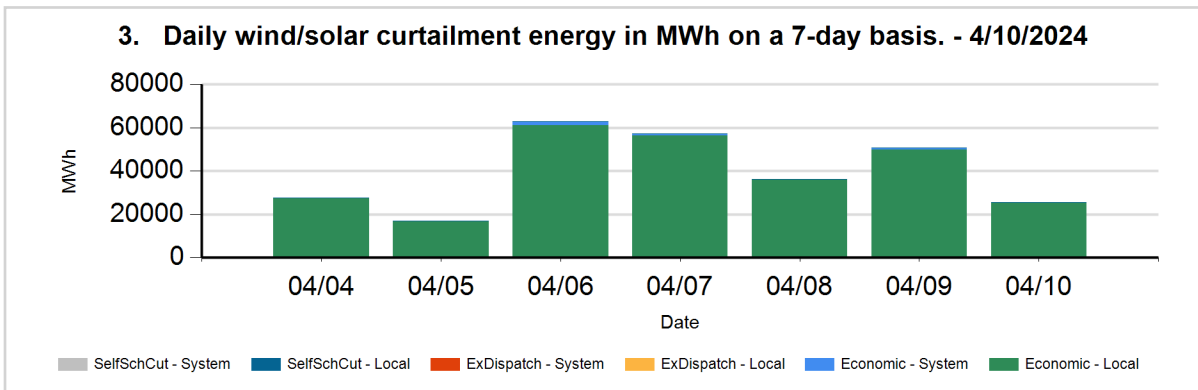
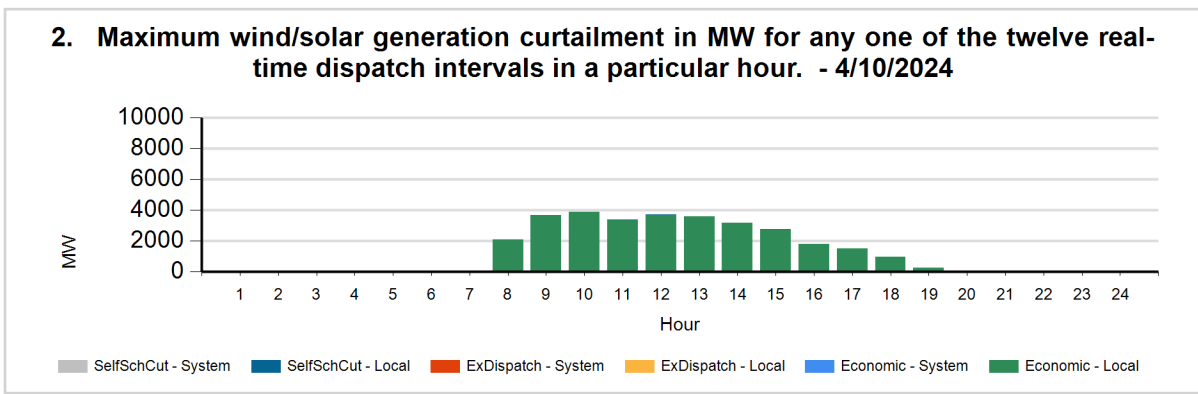
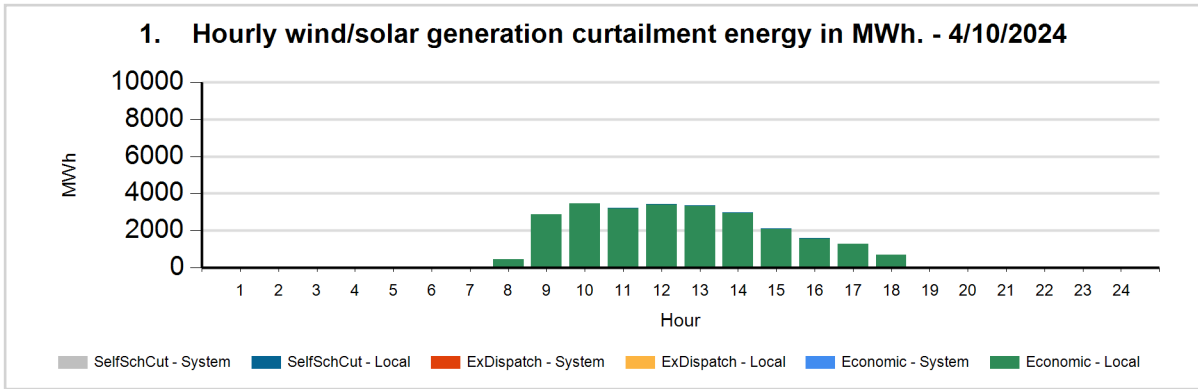
¹Only wind and solar resources can be reported in this manner because these resources have a forecast. Curtailment is defined as the difference between actual production and the forecast when actual production is less than the forecast.

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

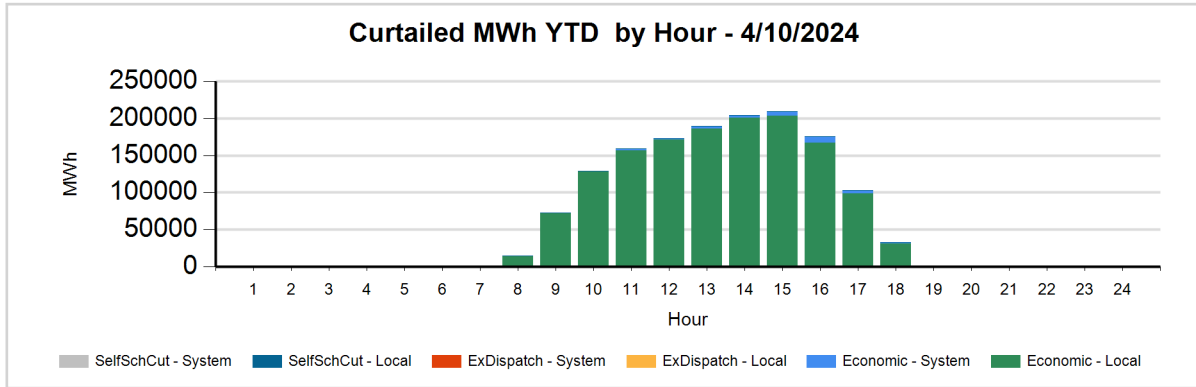
³Congestion occurs when available, least-cost energy cannot be delivered to some loads because transmission facilities do not have sufficient capacity to deliver the energy.

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

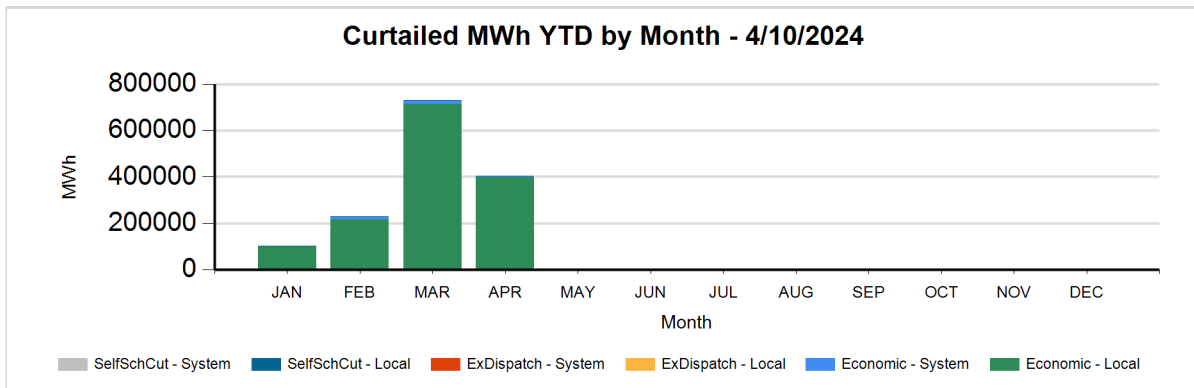
The following charts show the daily and 7-day wind and solar curtailment by category, if any.



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 - 4/10/2024
LocalEconomic	1,430,322
LocalSelfSchCut	731
SystemEconomic	33,048
TOTAL	1,464,101

Data used to produce hourly chart

DATE	HOUR	CURT TYPE	REASON	FUEL TYPE	CURTAILED MWH	CURTAILED MW
04/10	1	Economic	Local	WIND	12	34
04/10	2	Economic	Local	WIND	1	5
04/10	3	Economic	Local	WIND	0	1
04/10	6	Economic	Local	WIND	1	8
04/10	7	Economic	Local	WIND	1	10
04/10	8	Economic	Local	SOLR	409	2024
04/10	8	Economic	Local	WIND	31	42
04/10	9	Economic	Local	SOLR	2839	3595
04/10	9	Economic	Local	WIND	42	59
04/10	10	Economic	Local	SOLR	3388	3778
04/10	10	Economic	Local	WIND	76	93
04/10	10	SelfSchCut	Local	SOLR	0	
04/10	11	Economic	Local	SOLR	3098	3265
04/10	11	Economic	Local	WIND	114	101
04/10	11	SelfSchCut	Local	SOLR	3	3
04/10	12	Economic	Local	SOLR	3256	3515
04/10	12	Economic	Local	WIND	146	186
04/10	12	SelfSchCut	Local	SOLR	8	2
04/10	13	Economic	Local	SOLR	3231	3446
04/10	13	Economic	Local	WIND	107	129
04/10	13	SelfSchCut	Local	SOLR	4	
04/10	14	Economic	Local	SOLR	2893	3088
04/10	14	Economic	Local	WIND	88	71
04/10	14	SelfSchCut	Local	SOLR	4	
04/10	15	Economic	Local	SOLR	2029	2659
04/10	15	Economic	Local	WIND	85	77
04/10	15	SelfSchCut	Local	SOLR	5	12
04/10	16	Economic	Local	SOLR	1532	1719
04/10	16	Economic	Local	WIND	62	57
04/10	16	SelfSchCut	Local	SOLR	1	
04/10	17	Economic	Local	SOLR	1240	1465

04/10	17	Economic	Local	WIND	46	47
04/10	18	Economic	Local	SOLR	701	967
04/10	18	Economic	Local	WIND	4	
04/10	19	Economic	Local	SOLR	43	259

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.