

Wind and Solar Curtailment April 08, 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.

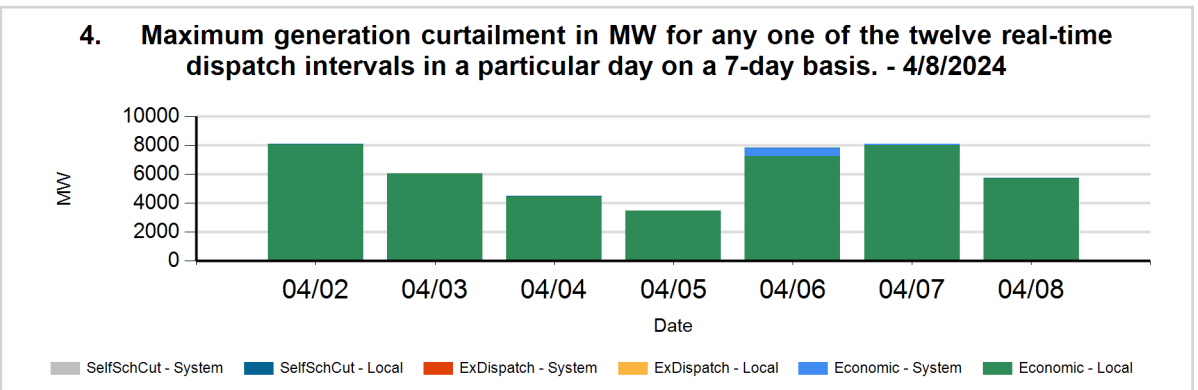
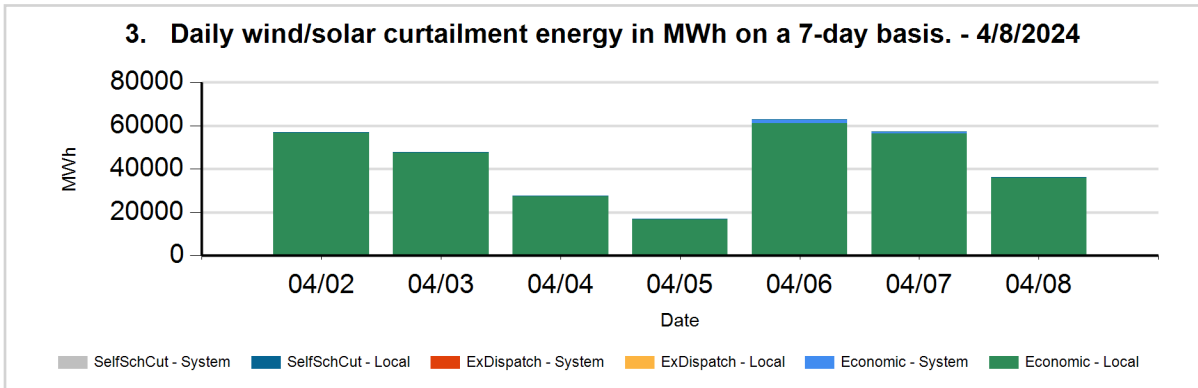
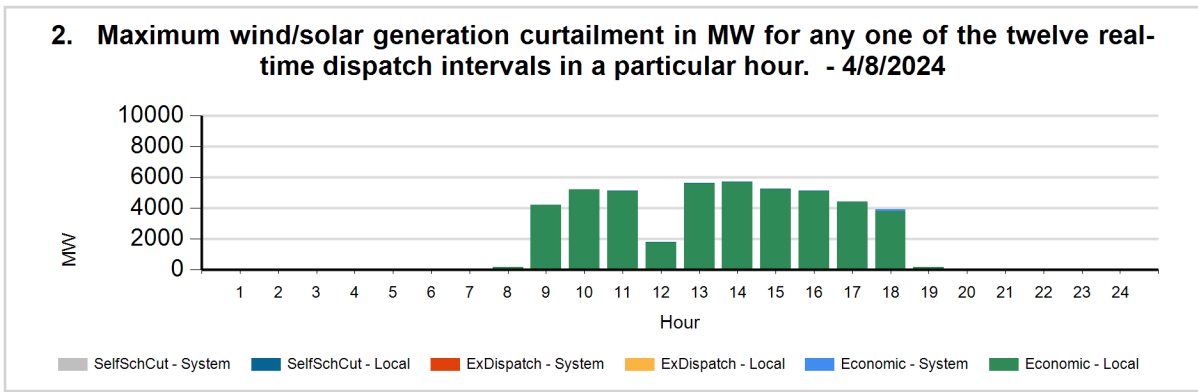
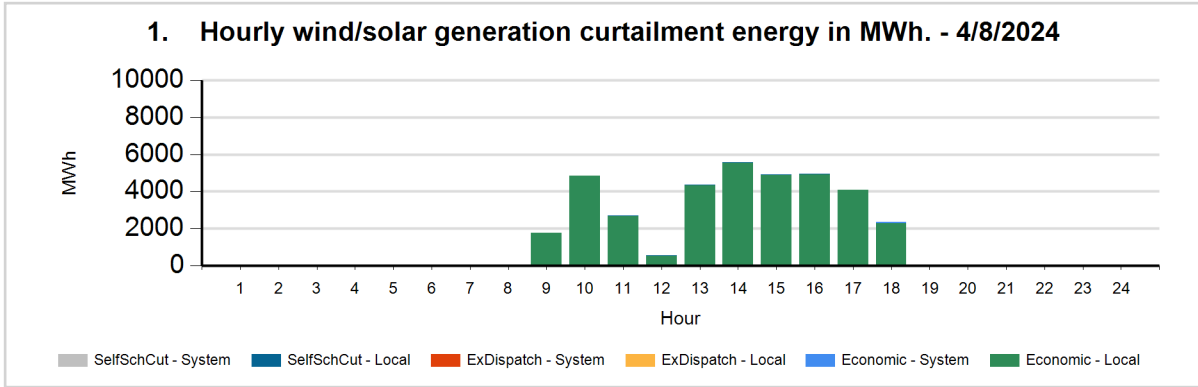
¹Only wind and solar resources can be reported in this manner because these resources have a forecast. Curtailment is defined as the difference between actual production and the forecast when actual production is less than the forecast.

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

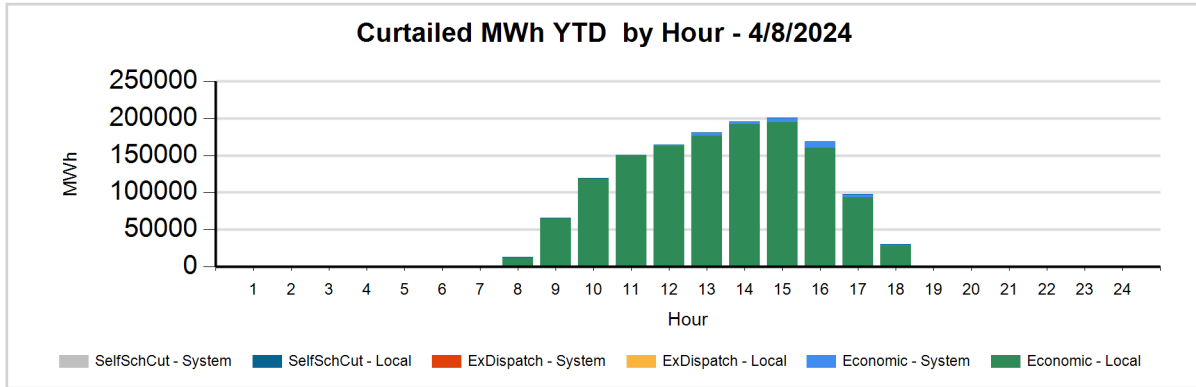
³Congestion occurs when available, least-cost energy cannot be delivered to some loads because transmission facilities do not have sufficient capacity to deliver the energy.

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

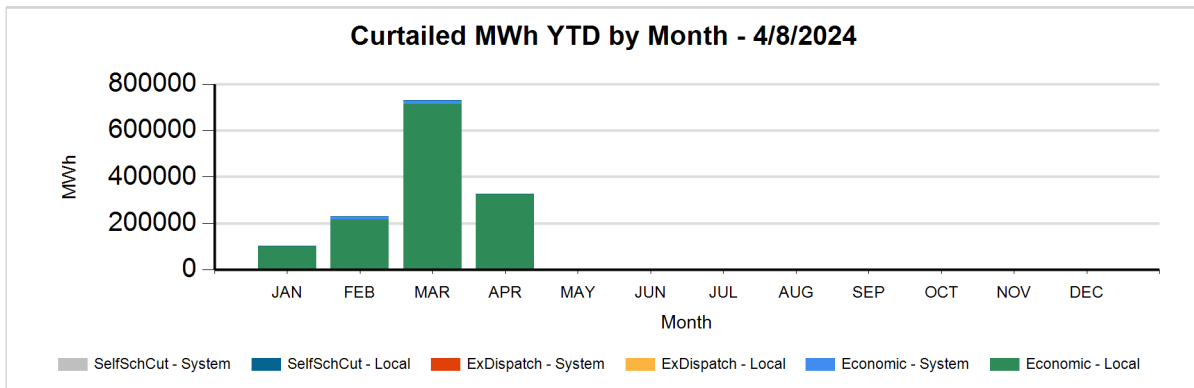
The following charts show the daily and 7-day wind and solar curtailment by category, if any.



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 - 4/8/2024
LocalEconomic	1,354,955
LocalSelfSchCut	683
SystemEconomic	32,243
TOTAL	1,387,882

Data used to produce hourly chart

DATE	HOUR	CURT TYPE	REASON	FUEL TYPE	CURTAILED MWH	CURTAILED MW
04/08	7	Economic	Local	SOLR	1	16
04/08	7	Economic	Local	WIND	2	19
04/08	8	Economic	Local	SOLR	37	174
04/08	9	Economic	Local	SOLR	1726	4118
04/08	9	Economic	Local	WIND	38	83
04/08	10	Economic	Local	SOLR	4761	5143
04/08	10	Economic	Local	WIND	73	83
04/08	10	SelfSchCut	Local	SOLR	0	
04/08	11	Economic	Local	SOLR	2597	5018
04/08	11	Economic	Local	WIND	81	86
04/08	11	SelfSchCut	Local	SOLR	10	21
04/08	12	Economic	Local	SOLR	543	1756
04/08	12	Economic	Local	WIND	3	31
04/08	12	SelfSchCut	Local	SOLR	6	18
04/08	13	Economic	Local	SOLR	4246	5469
04/08	13	Economic	Local	WIND	121	162
04/08	13	Economic	System	WIND	2	4
04/08	13	SelfSchCut	Local	SOLR	4	12
04/08	14	Economic	Local	SOLR	5370	5451
04/08	14	Economic	Local	WIND	197	249
04/08	14	SelfSchCut	Local	SOLR	8	10
04/08	15	Economic	Local	SOLR	4642	5032
04/08	15	Economic	Local	WIND	237	224
04/08	15	Economic	System	SOLR	20	
04/08	15	SelfSchCut	Local	SOLR	6	11
04/08	16	Economic	Local	SOLR	4694	4838
04/08	16	Economic	Local	WIND	242	279
04/08	16	SelfSchCut	Local	SOLR	2	2
04/08	17	Economic	Local	SOLR	3817	4116
04/08	17	Economic	Local	WIND	275	293
04/08	18	Economic	Local	SOLR	2035	3403

04/08	18	Economic	Local	WIND	259	375
04/08	18	Economic	System	SOLR	60	137
04/08	19	Economic	Local	SOLR	43	152
04/08	19	Economic	System	SOLR	1	

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.