

Wind and Solar Curtailment April 13, 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.

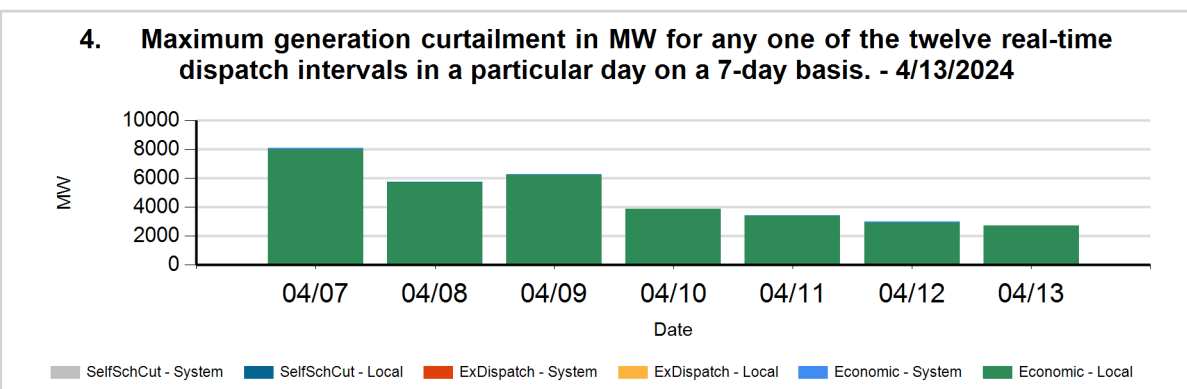
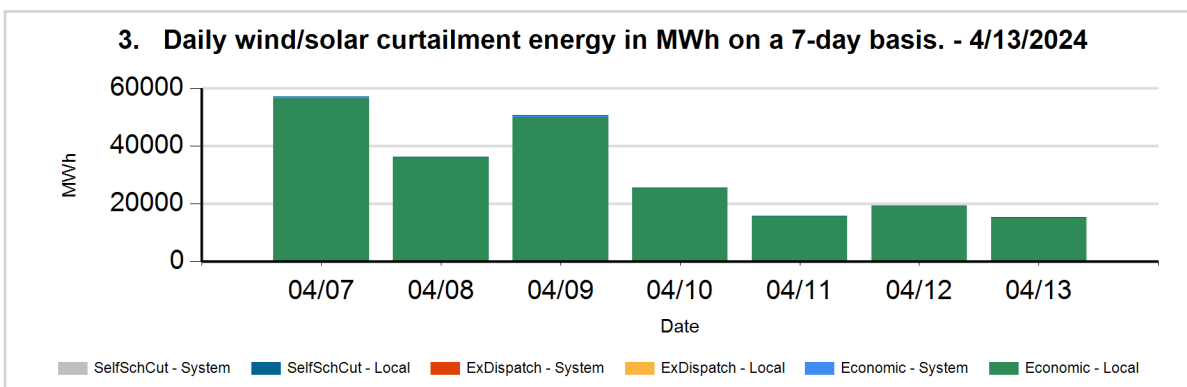
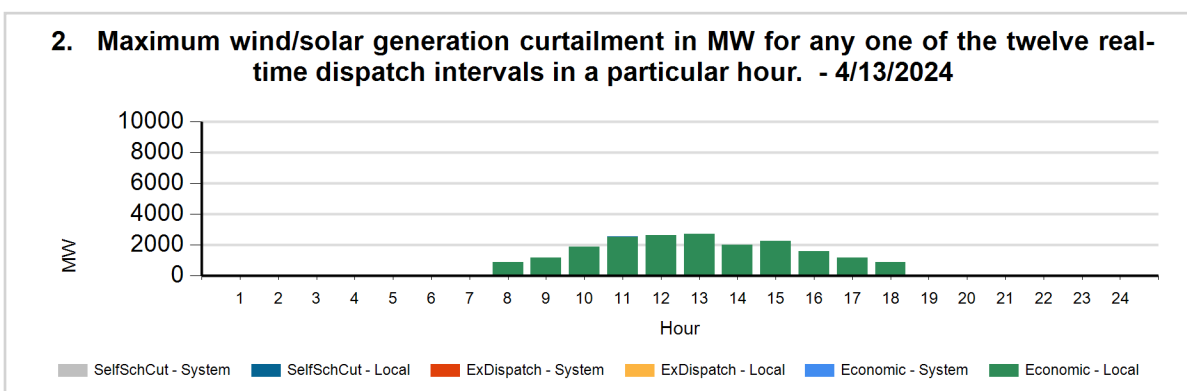
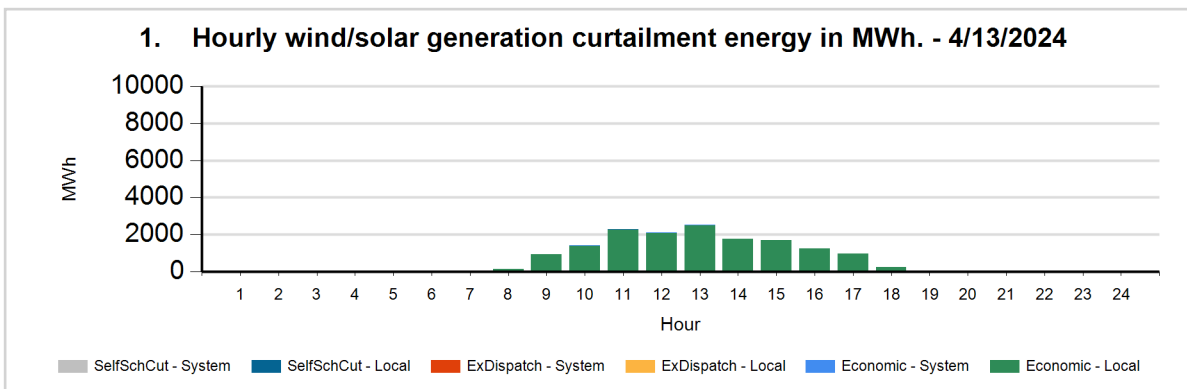
¹Only wind and solar resources can be reported in this manner because these resources have a forecast. Curtailment is defined as the difference between actual production and the forecast when actual production is less than the forecast.

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

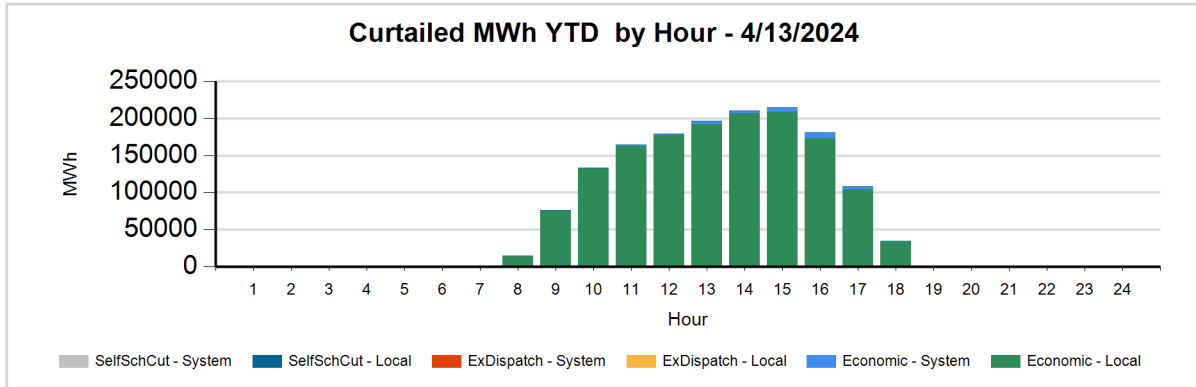
³Congestion occurs when available, least-cost energy cannot be delivered to some loads because transmission facilities do not have sufficient capacity to deliver the energy.

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

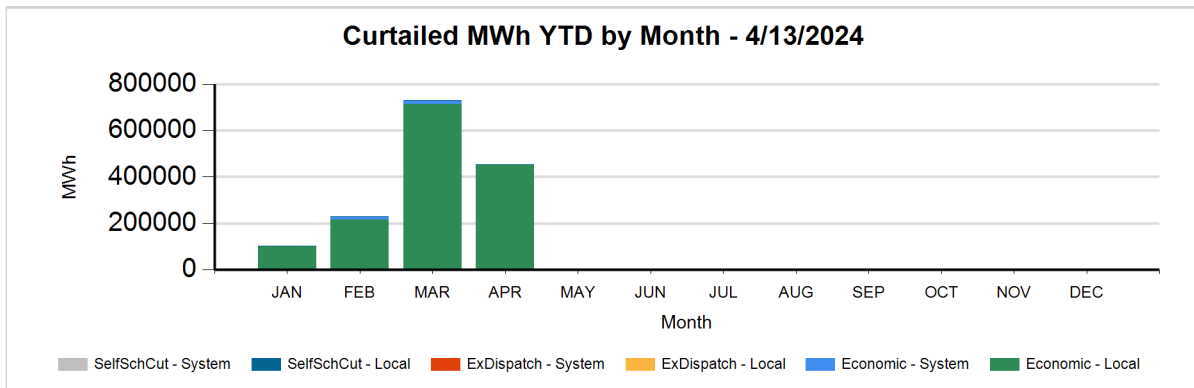
The following charts show the daily and 7-day wind and solar curtailment by category, if any.



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 - 4/13/2024
LocalEconomic	1,480,477
LocalSelfSchCut	809
SystemEconomic	33,213
TOTAL	1,514,499

Data used to produce hourly chart

DATE	HOUR	CURT TYPE	REASON	FUEL TYPE	CURTAILED MWH	CURTAILED MW
04/13	8	Economic	Local	SOLR	148	855
04/13	9	Economic	Local	SOLR	915	1156
04/13	9	Economic	Local	WIND	10	24
04/13	9	Economic	System	SOLR	0	
04/13	10	Economic	Local	SOLR	1316	1695
04/13	10	Economic	Local	WIND	85	180
04/13	10	Economic	System	SOLR	4	
04/13	11	Economic	Local	SOLR	1962	2135
04/13	11	Economic	Local	WIND	320	400
04/13	11	Economic	System	SOLR	11	4
04/13	11	SelfSchCut	Local	SOLR	1	2
04/13	12	Economic	Local	SOLR	1826	2241
04/13	12	Economic	Local	WIND	290	373
04/13	12	Economic	System	SOLR	2	
04/13	13	Economic	Local	SOLR	2128	2322
04/13	13	Economic	Local	WIND	381	376
04/13	13	Economic	System	SOLR	1	
04/13	14	Economic	Local	SOLR	1507	1676
04/13	14	Economic	Local	WIND	250	304
04/13	15	Economic	Local	SOLR	1497	1726
04/13	15	Economic	Local	WIND	212	511
04/13	16	Economic	Local	SOLR	1209	1448
04/13	16	Economic	Local	WIND	32	146
04/13	17	Economic	Local	SOLR	978	1134
04/13	17	Economic	Local	WIND	4	20
04/13	18	Economic	Local	SOLR	222	875
04/13	19	Economic	Local	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.



California ISO