

Wind and Solar Curtailment April 05, 2023

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.

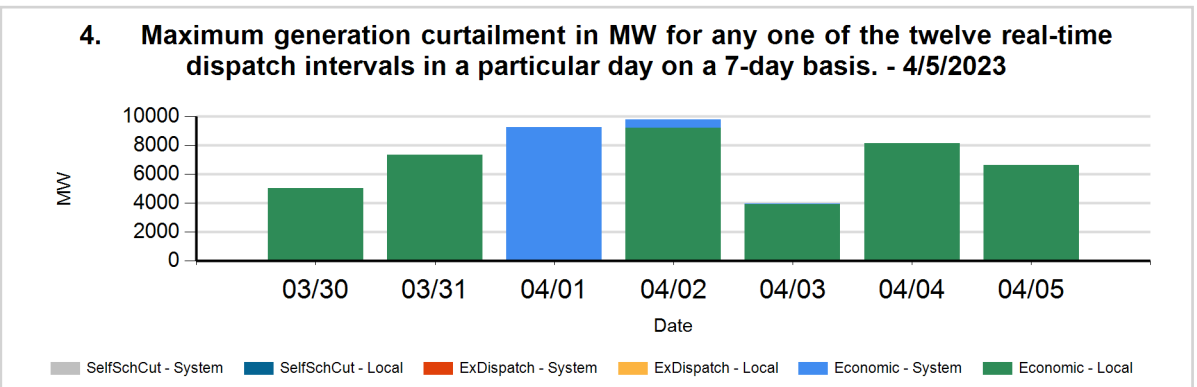
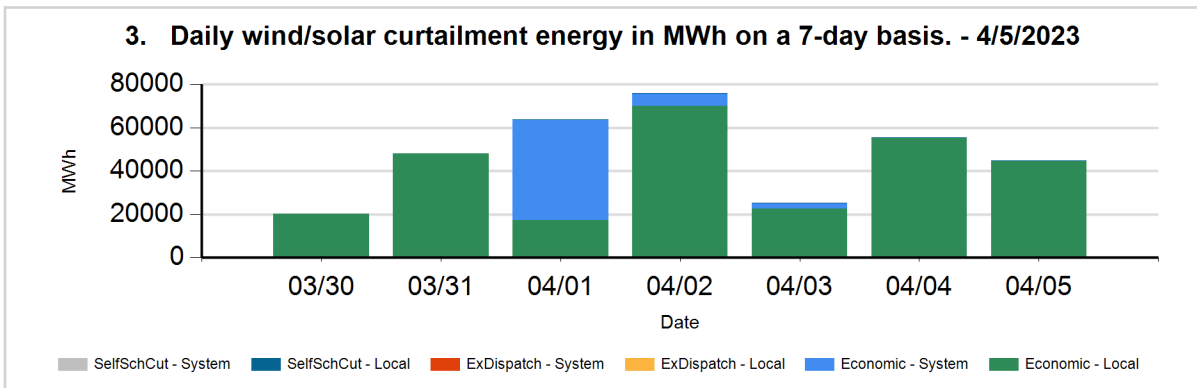
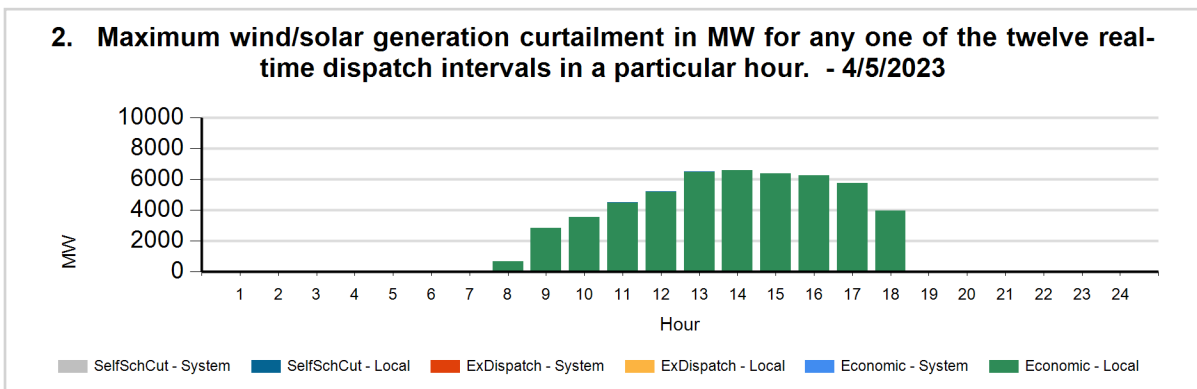
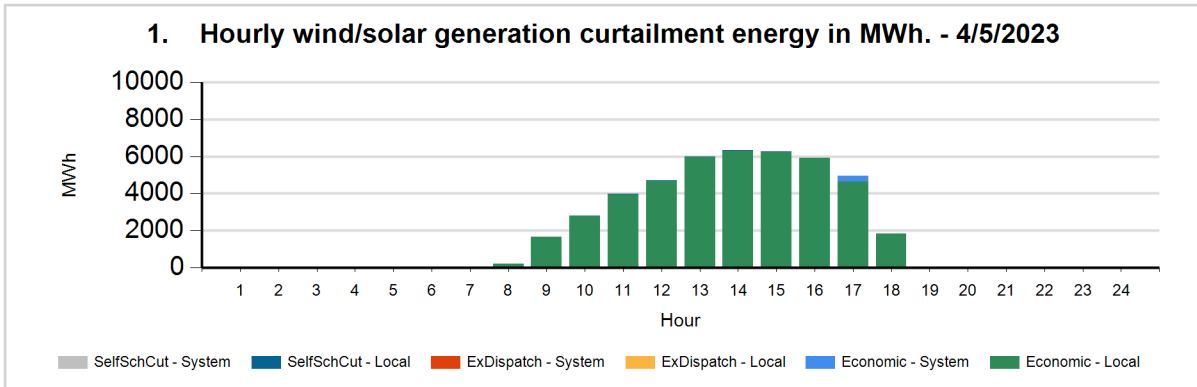
¹Only wind and solar resources can be reported in this manner because these resources have a forecast. Curtailment is defined as the difference between actual production and the forecast when actual production is less than the forecast.

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

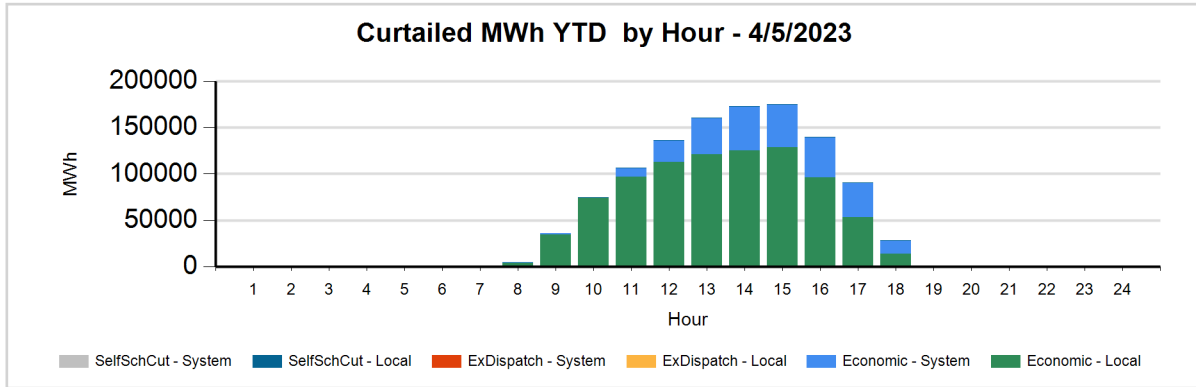
³Congestion occurs when available, least-cost energy cannot be delivered to some loads because transmission facilities do not have sufficient capacity to deliver the energy.

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

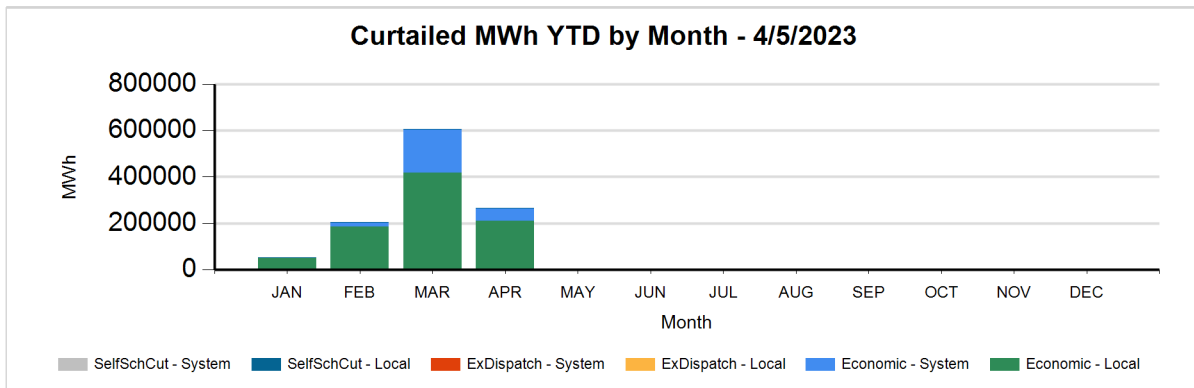
The following charts show the daily and 7-day wind and solar curtailment by category, if any.



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 - 4/5/2023
LocalEconomic	861,393
LocalSelfSchCut	68
SystemEconomic	266,763
TOTAL	1,128,224

Data used to produce hourly chart

DATE	HOUR	CURT TYPE	REASON	FUEL TYPE	CURTAILED MWH	CURTAILED MW
04/05	6	Economic	Local	WIND	1	4
04/05	8	Economic	Local	SOLR	178	595
04/05	8	Economic	Local	WIND	39	59
04/05	9	Economic	Local	SOLR	1592	2734
04/05	9	Economic	Local	WIND	79	88
04/05	10	Economic	Local	SOLR	2709	3431
04/05	10	Economic	Local	WIND	92	105
04/05	11	Economic	Local	SOLR	3838	4413
04/05	11	Economic	Local	WIND	148	102
04/05	11	SelfSchCut	Local	SOLR	1	2
04/05	12	Economic	Local	SOLR	4610	5101
04/05	12	Economic	Local	WIND	92	103
04/05	12	SelfSchCut	Local	SOLR	3	7
04/05	13	Economic	Local	SOLR	5865	6342
04/05	13	Economic	Local	WIND	129	155
04/05	13	SelfSchCut	Local	SOLR	3	10
04/05	14	Economic	Local	SOLR	6185	6469
04/05	14	Economic	Local	WIND	143	136
04/05	14	SelfSchCut	Local	SOLR	2	
04/05	15	Economic	Local	SOLR	6147	6263
04/05	15	Economic	Local	WIND	104	117
04/05	15	Economic	System	SOLR	2	
04/05	15	Economic	System	WIND	3	
04/05	15	SelfSchCut	Local	SOLR	3	
04/05	16	Economic	Local	SOLR	5817	6142
04/05	16	Economic	Local	WIND	96	101
04/05	16	SelfSchCut	Local	SOLR	0	
04/05	17	Economic	Local	SOLR	4574	5706
04/05	17	Economic	Local	WIND	58	67
04/05	17	Economic	System	SOLR	322	
04/05	17	Economic	System	WIND	7	

04/05	18	Economic	Local	SOLR	1770	3884
04/05	18	Economic	Local	WIND	47	62
04/05	19	Economic	Local	SOLR	1	7
04/05	19	Economic	Local	WIND	13	40

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.