

Wind and Solar Curtailment April 10, 2022

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.

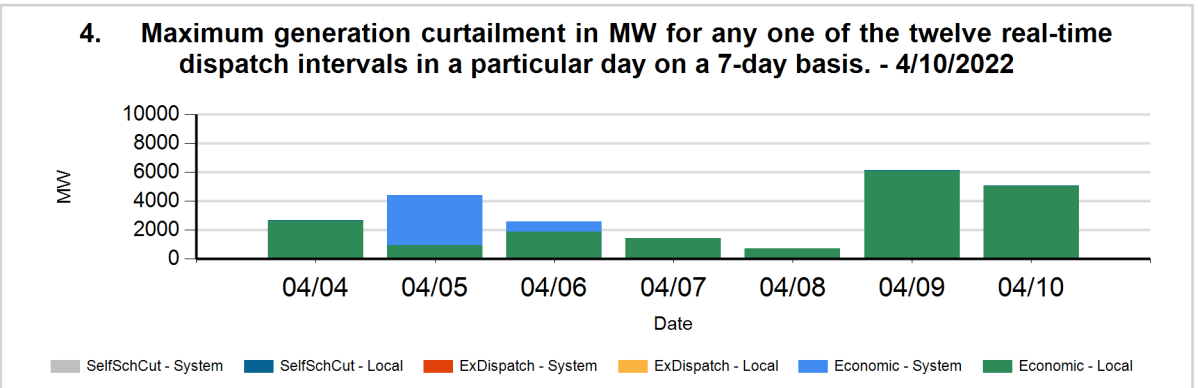
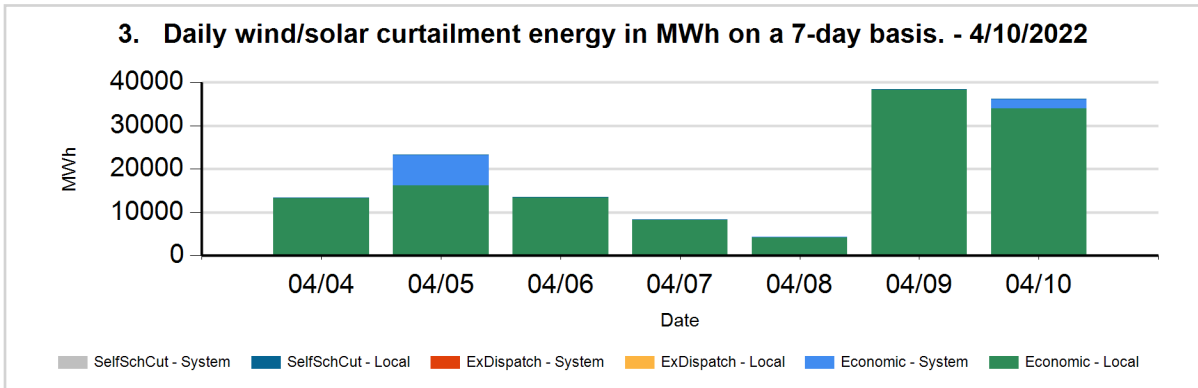
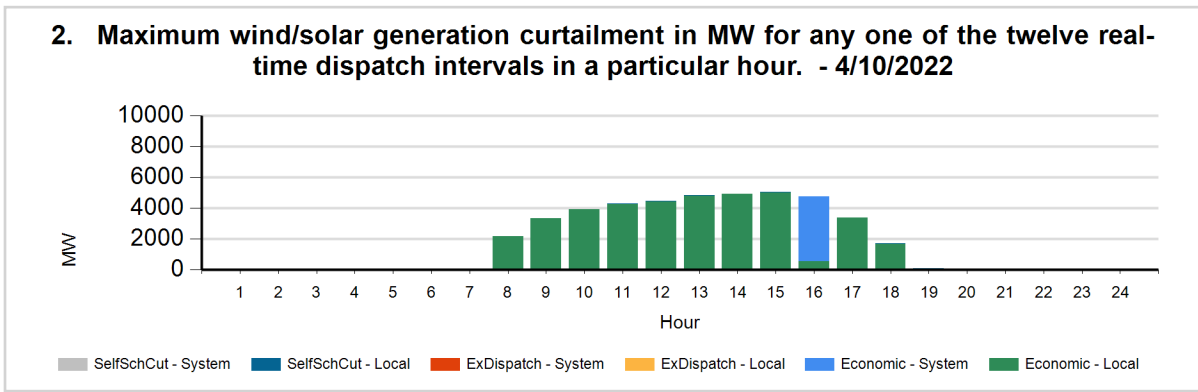
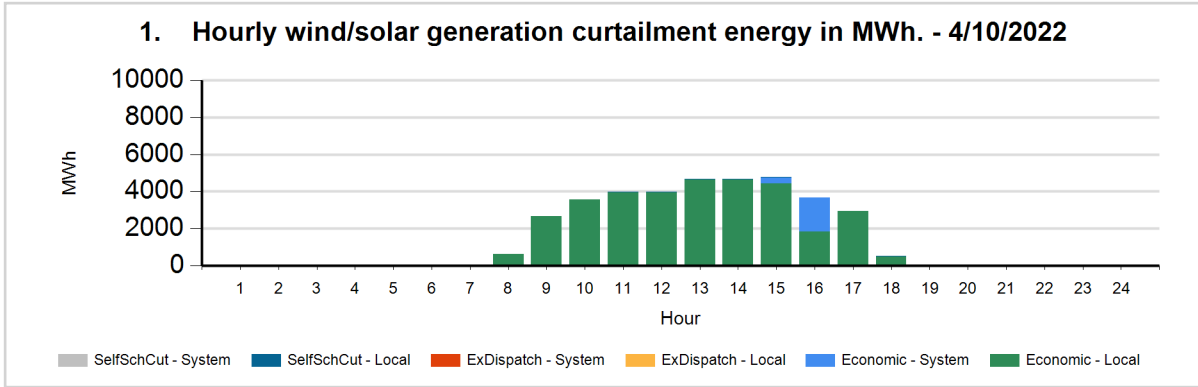
¹Only wind and solar resources can be reported in this manner because these resources have a forecast. Curtailment is defined as the difference between actual production and the forecast when actual production is less than the forecast.

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

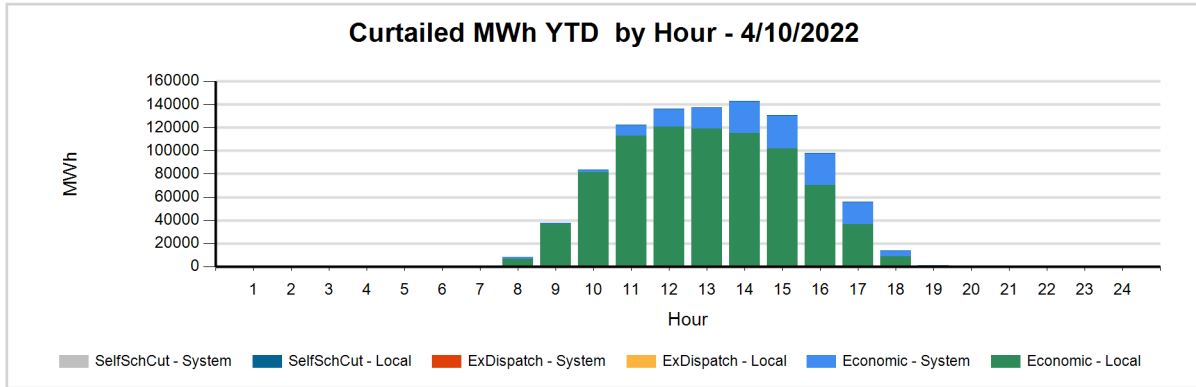
³Congestion occurs when available, least-cost energy cannot be delivered to some loads because transmission facilities do not have sufficient capacity to deliver the energy.

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

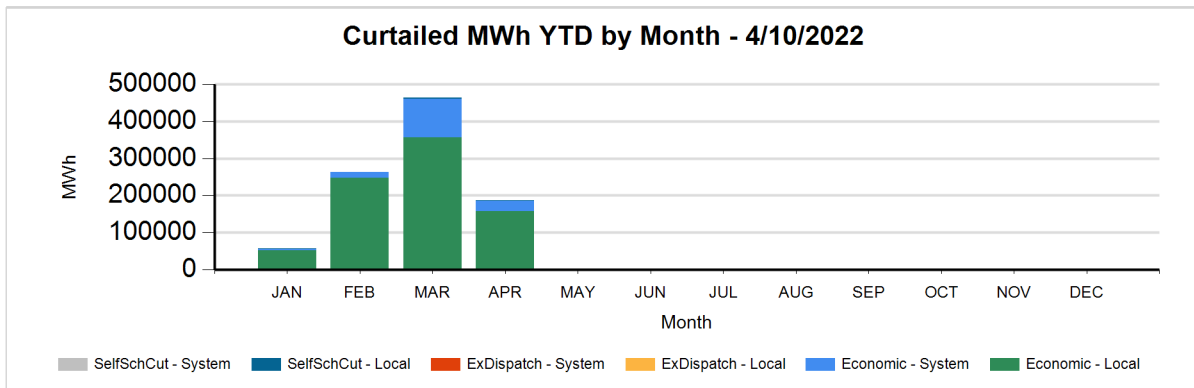
The following charts show the daily and 7-day wind and solar curtailment by category, if any.



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 - 4/10/2022
LocalEconomic	811,245
LocalSelfSchCut	3,943
SystemEconomic	155,074
TOTAL	970,261

Data used to produce hourly chart

DATE	HOUR	CURT TYPE	REASON	FUEL TYPE	CURTAILED MWH	CURTAILED MW
04/10	1	Economic	Local	WIND	1	
04/10	1	Economic	System	WIND	3	9
04/10	2	Economic	Local	WIND	2	12
04/10	2	Economic	System	WIND	1	
04/10	3	Economic	Local	WIND	1	
04/10	3	Economic	System	WIND	2	6
04/10	4	Economic	Local	WIND	0	
04/10	4	Economic	System	WIND	3	6
04/10	5	Economic	Local	WIND	1	5
04/10	6	Economic	Local	WIND	3	7
04/10	6	Economic	System	WIND	0	
04/10	7	Economic	Local	WIND	3	6
04/10	8	Economic	Local	SOLR	610	2158
04/10	8	Economic	Local	WIND	5	18
04/10	8	SelfSchCut	Local	WIND	0	
04/10	9	Economic	Local	SOLR	2642	3336
04/10	9	Economic	Local	WIND	15	11
04/10	10	Economic	Local	SOLR	3550	3854
04/10	10	Economic	Local	WIND	27	44
04/10	11	Economic	Local	SOLR	3928	4242
04/10	11	Economic	Local	WIND	36	34
04/10	11	SelfSchCut	Local	SOLR	1	3
04/10	12	Economic	Local	SOLR	3946	4429
04/10	12	Economic	Local	WIND	31	35
04/10	12	Economic	System	SOLR	6	
04/10	12	SelfSchCut	Local	SOLR	2	4
04/10	13	Economic	Local	SOLR	4624	4813
04/10	13	Economic	Local	WIND	29	31
04/10	13	SelfSchCut	Local	SOLR	4	6
04/10	14	Economic	Local	SOLR	4588	4739
04/10	14	Economic	Local	WIND	84	168

04/10	14	SelfSchCut	Local	SOLR	1	
04/10	15	Economic	Local	SOLR	4160	4783
04/10	15	Economic	Local	WIND	260	275
04/10	15	Economic	System	SOLR	309	
04/10	15	Economic	System	WIND	43	
04/10	15	SelfSchCut	Local	SOLR	1	4
04/10	16	Economic	Local	SOLR	1798	531
04/10	16	Economic	Local	WIND	39	25
04/10	16	Economic	System	SOLR	1613	3678
04/10	16	Economic	System	WIND	208	532
04/10	17	Economic	Local	SOLR	2901	3269
04/10	17	Economic	Local	WIND	50	126
04/10	17	SelfSchCut	Local	WIND	0	
04/10	18	Economic	Local	SOLR	518	1664
04/10	18	Economic	Local	WIND	4	27
04/10	18	SelfSchCut	Local	WIND	3	4
04/10	19	Economic	Local	SOLR	16	44
04/10	19	Economic	System	SOLR	1	15
04/10	19	SelfSchCut	Local	SOLR	0	2
04/10	23	Economic	Local	WIND	1	14

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.