

Wind and Solar Curtailment April 28, 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.

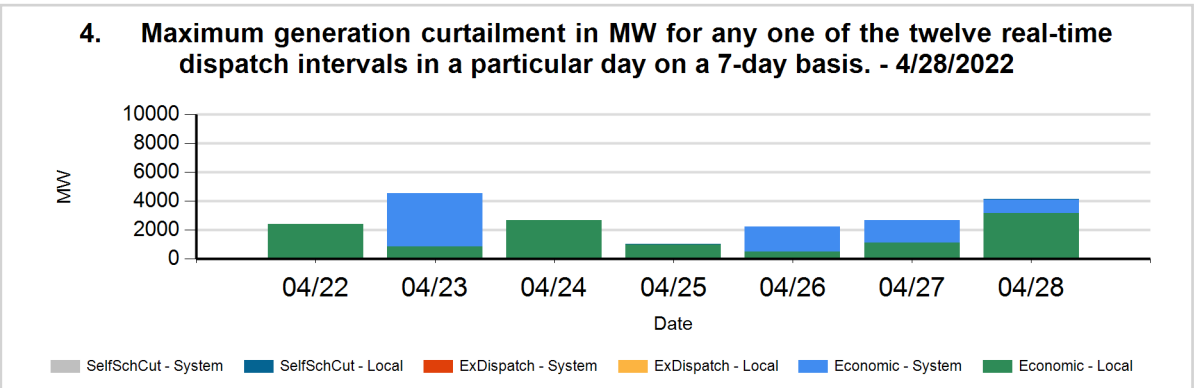
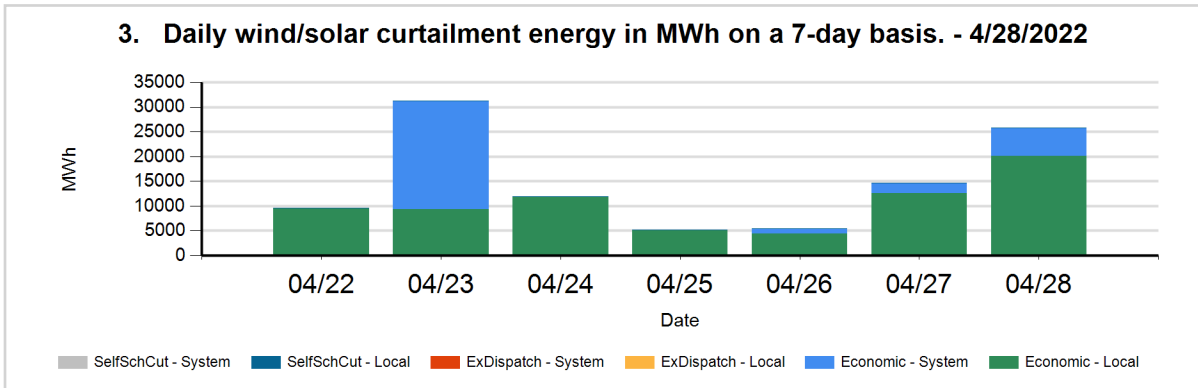
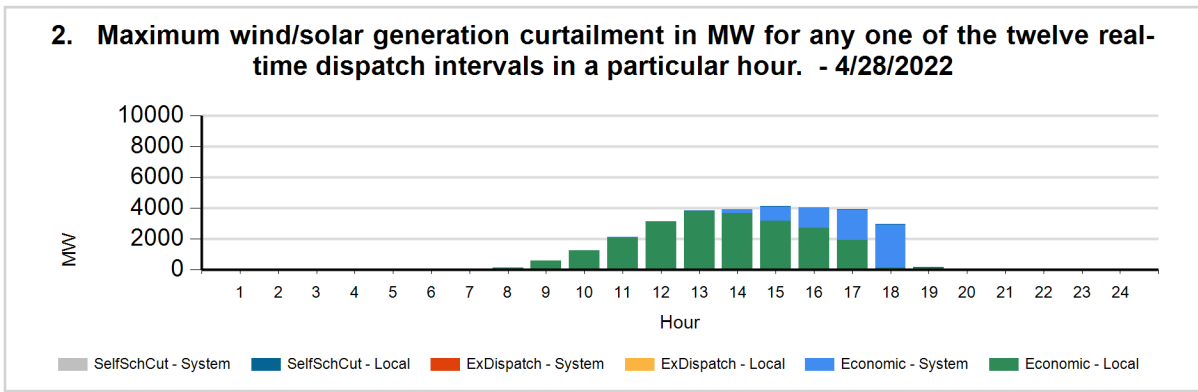
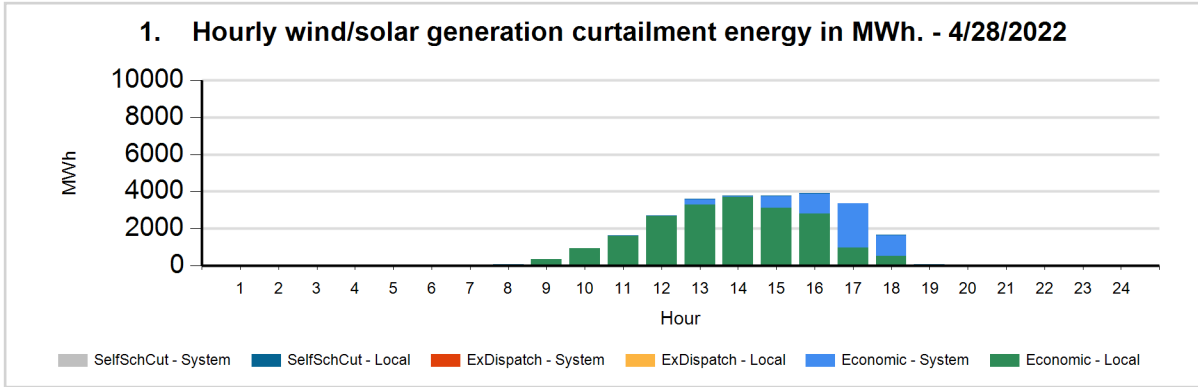
²The Renewables Watch report provides daily actual renewable production within the ISO grid. It is available at: <http://www.caiso.com/green/renewableswatch.html>.

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.

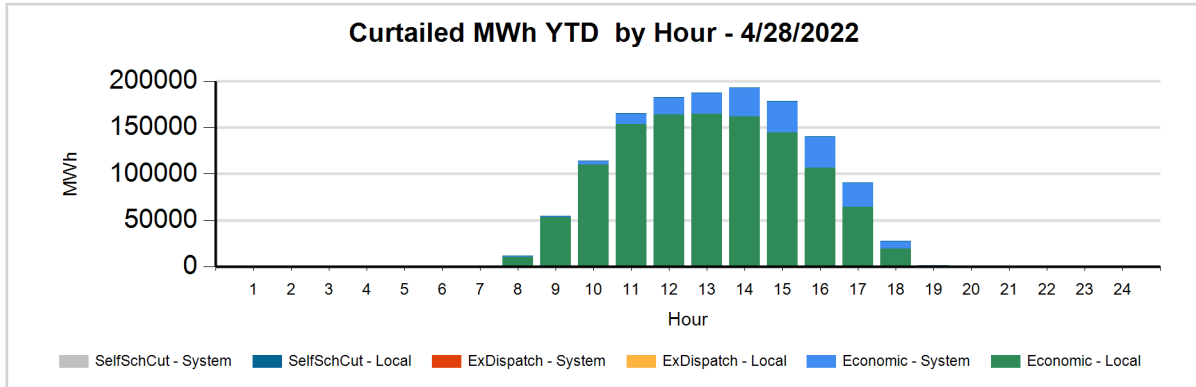
⁴For more information on oversupply conditions, please see:

https://www.caiso.com/Documents/FlexibleResourcesHelpRenewables_FastFacts.pdf

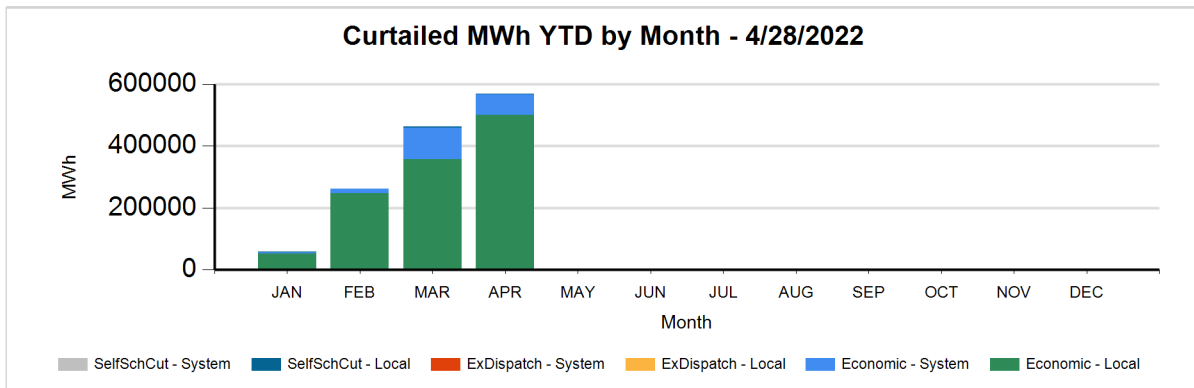
The following charts show the daily and 7-day wind and solar curtailment by category, if any.



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 - 4/28/2022
LocalEconomic	1,154,883
LocalSelfSchCut	4,316
SystemEconomic	191,472
TOTAL	1,350,671

Data used to produce hourly chart

DATE	HOUR	CURT TYPE	REASON	FUEL TYPE	CURTAILED MWH	CURTAILED MW
04/28	1	Economic	Local	WIND	7	7
04/28	2	Economic	Local	WIND	7	7
04/28	3	Economic	Local	WIND	7	7
04/28	4	Economic	Local	WIND	7	7
04/28	5	Economic	Local	WIND	7	7
04/28	6	Economic	Local	WIND	7	7
04/28	7	Economic	Local	WIND	11	38
04/28	8	Economic	Local	SOLR	39	51
04/28	8	Economic	Local	WIND	7	7
04/28	8	Economic	System	SOLR	6	56
04/28	8	SelfSchCut	Local	SOLR	4	4
04/28	9	Economic	Local	SOLR	329	573
04/28	9	Economic	Local	WIND	11	7
04/28	10	Economic	Local	SOLR	927	1258
04/28	10	Economic	Local	WIND	7	7
04/28	11	Economic	Local	SOLR	1592	2068
04/28	11	Economic	Local	WIND	14	53
04/28	11	Economic	System	SOLR	9	20
04/28	11	SelfSchCut	Local	SOLR	1	
04/28	12	Economic	Local	SOLR	2631	3052
04/28	12	Economic	Local	WIND	34	49
04/28	12	Economic	System	SOLR	43	
04/28	12	SelfSchCut	Local	SOLR	4	5
04/28	13	Economic	Local	SOLR	3230	3751
04/28	13	Economic	Local	WIND	42	61
04/28	13	Economic	System	SOLR	320	
04/28	13	Economic	System	WIND	5	
04/28	13	SelfSchCut	Local	SOLR	3	9
04/28	14	Economic	Local	SOLR	3673	3609
04/28	14	Economic	Local	WIND	20	50
04/28	14	Economic	System	SOLR	55	258

04/28	14	SelfSchCut	Local	SOLR	4	
04/28	15	Economic	Local	SOLR	3045	3085
04/28	15	Economic	Local	WIND	53	68
04/28	15	Economic	System	SOLR	650	952
04/28	15	Economic	System	WIND	1	
04/28	15	SelfSchCut	Local	SOLR	3	10
04/28	16	Economic	Local	SOLR	2700	2558
04/28	16	Economic	Local	WIND	83	162
04/28	16	Economic	System	SOLR	1114	1313
04/28	16	Economic	System	WIND	11	6
04/28	16	SelfSchCut	Local	SOLR	2	
04/28	17	Economic	Local	SOLR	946	1827
04/28	17	Economic	Local	WIND	34	81
04/28	17	Economic	System	SOLR	2237	1661
04/28	17	Economic	System	WIND	138	337
04/28	17	SelfSchCut	Local	SOLR	0	1
04/28	18	Economic	Local	SOLR	485	117
04/28	18	Economic	Local	WIND	17	
04/28	18	Economic	System	SOLR	1102	2711
04/28	18	Economic	System	WIND	57	110
04/28	18	SelfSchCut	Local	SOLR	4	8
04/28	19	Economic	Local	SOLR	43	123
04/28	19	Economic	Local	WIND	9	8
04/28	19	Economic	System	SOLR	5	
04/28	19	SelfSchCut	Local	SOLR	3	12
04/28	20	Economic	Local	WIND	4	5
04/28	21	Economic	Local	WIND	1	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