

Wind and Solar Curtailment April 12, 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.

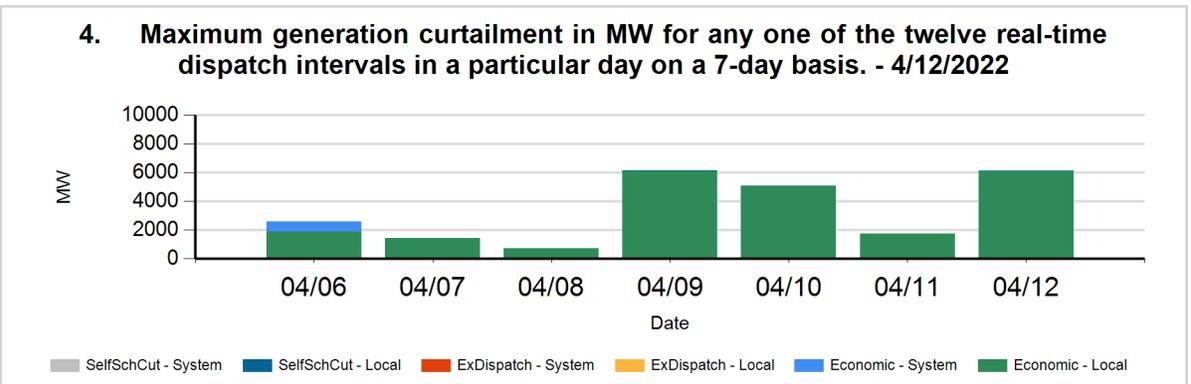
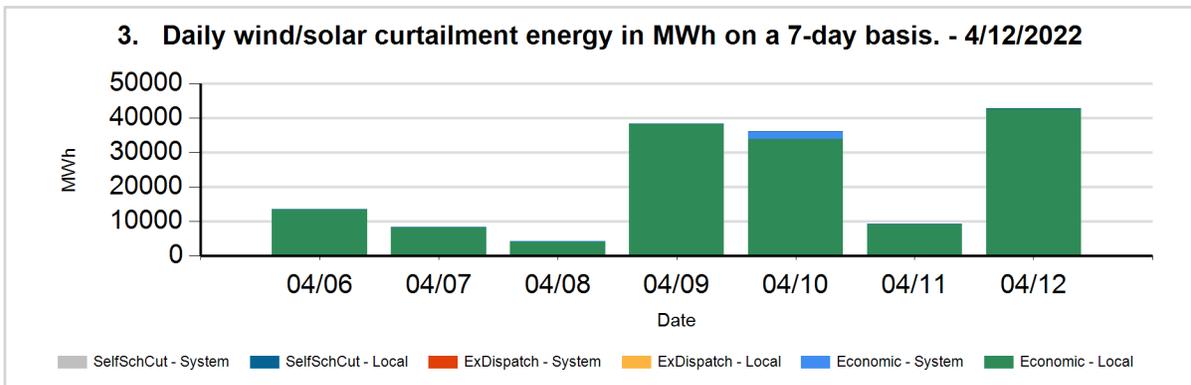
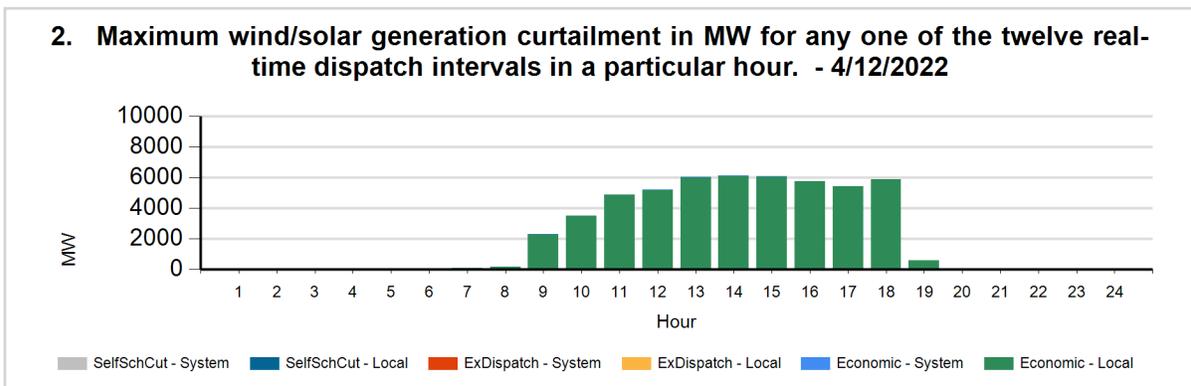
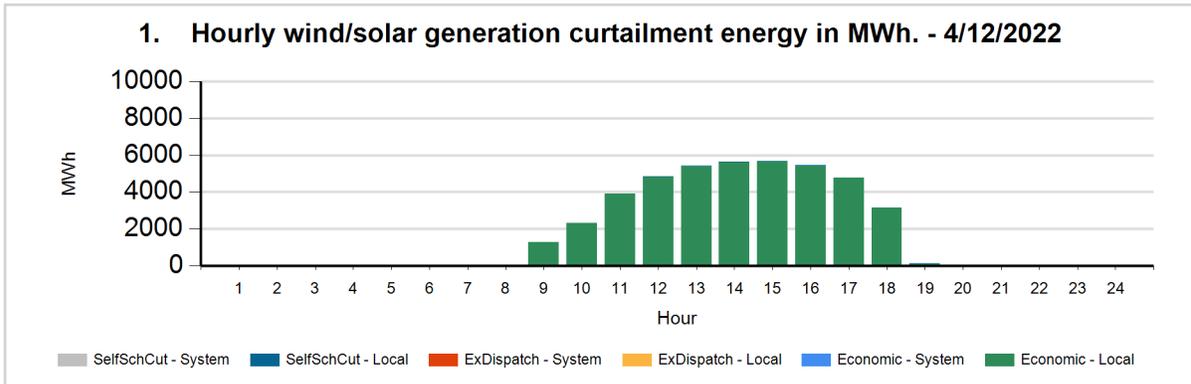
¹Only wind and solar resources can be reported in this manner because these resources have a forecast. Curtailment is defined as the difference between actual production and the forecast when actual production is less than the forecast.

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

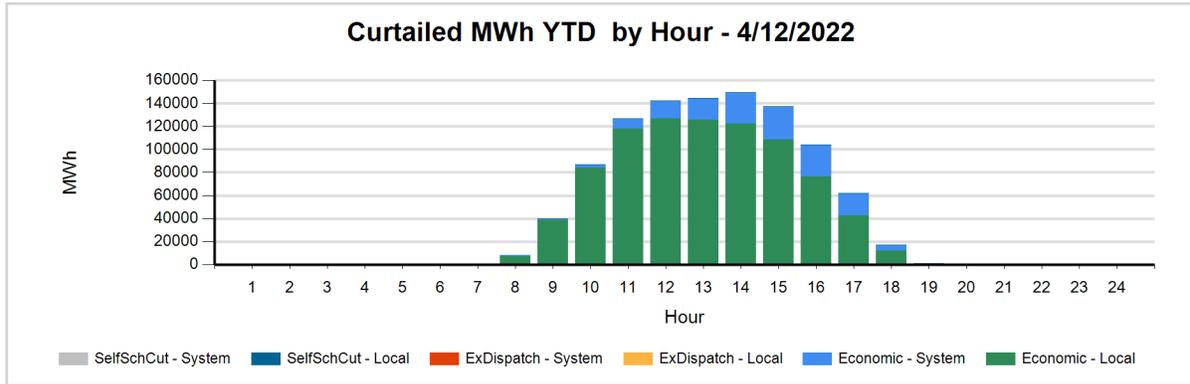
³Congestion occurs when available, least-cost energy cannot be delivered to some loads because transmission facilities do not have sufficient capacity to deliver the energy.

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

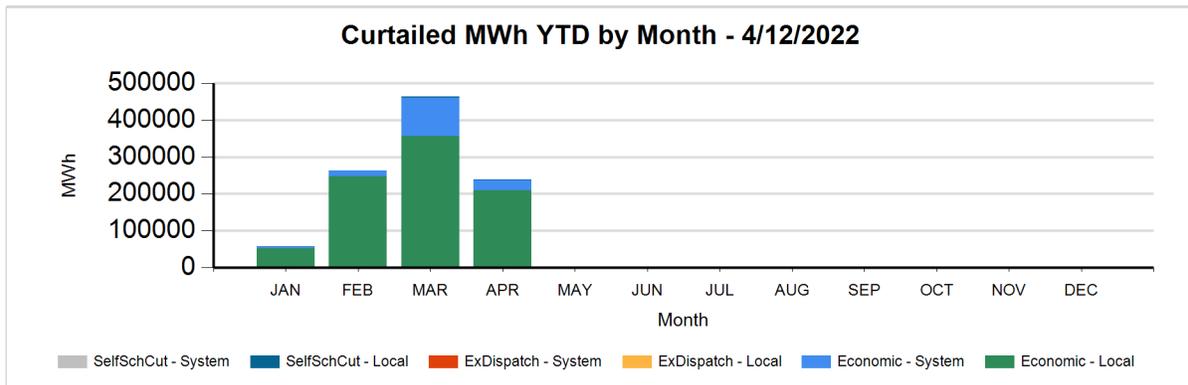
The following charts show the daily and 7-day wind and solar curtailment by category, if any.



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 - 4/12/2022
LocalEconomic	863,139
LocalSelfSchCut	3,955
SystemEconomic	155,249
TOTAL	1,022,343

Data used to produce hourly chart

DATE	HOUR	CURT TYPE	REASON	FUEL TYPE	CURTAILED MWH	CURTAILED MW
04/12	3	Economic	Local	WIND	4	22
04/12	3	Economic	System	WIND	5	
04/12	4	Economic	Local	WIND	2	22
04/12	4	Economic	System	WIND	1	
04/12	6	Economic	System	WIND	4	46
04/12	7	Economic	Local	WIND	16	68
04/12	8	Economic	Local	SOLR	22	162
04/12	8	Economic	Local	WIND	4	
04/12	9	Economic	Local	SOLR	1261	2288
04/12	9	Economic	Local	WIND	11	
04/12	9	SelfSchCut	Local	SOLR	0	1
04/12	10	Economic	Local	SOLR	2320	3488
04/12	10	Economic	Local	WIND	7	21
04/12	11	Economic	Local	SOLR	3869	4738
04/12	11	Economic	Local	WIND	47	157
04/12	12	Economic	Local	SOLR	4689	5047
04/12	12	Economic	Local	WIND	137	165
04/12	12	Economic	System	WIND	8	6
04/12	12	SelfSchCut	Local	SOLR	1	
04/12	13	Economic	Local	SOLR	5224	5765
04/12	13	Economic	Local	WIND	200	244
04/12	13	Economic	System	WIND	11	22
04/12	13	SelfSchCut	Local	SOLR	0	
04/12	14	Economic	Local	SOLR	5396	5825
04/12	14	Economic	Local	WIND	205	279
04/12	14	Economic	System	SOLR	15	
04/12	14	Economic	System	WIND	15	18
04/12	14	SelfSchCut	Local	SOLR	2	
04/12	15	Economic	Local	SOLR	5464	5858
04/12	15	Economic	Local	WIND	198	209
04/12	15	Economic	System	WIND	11	9

04/12	15	SelfSchCut	Local	SOLR	1	
04/12	16	Economic	Local	SOLR	5268	5526
04/12	16	Economic	Local	WIND	208	210
04/12	16	Economic	System	WIND	3	
04/12	17	Economic	Local	SOLR	4591	5215
04/12	17	Economic	Local	WIND	176	196
04/12	18	Economic	Local	SOLR	3009	5556
04/12	18	Economic	Local	WIND	135	336
04/12	19	Economic	Local	SOLR	121	575
04/12	19	Economic	Local	WIND	9	11
04/12	19	Economic	System	WIND	1	
04/12	20	Economic	Local	WIND	11	45
04/12	20	Economic	System	WIND	28	
04/12	21	Economic	Local	WIND	4	
04/12	21	Economic	System	WIND	34	45
04/12	22	Economic	Local	WIND	10	
04/12	22	Economic	System	WIND	1	15
04/12	23	Economic	Local	WIND	10	11
04/12	24	Economic	Local	WIND	10	11

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.