

Wind and Solar Curtailment April 03, 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.

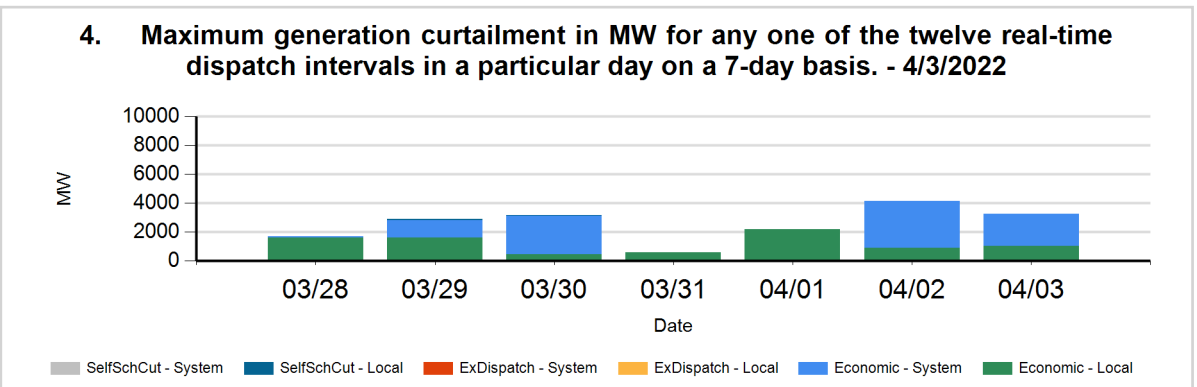
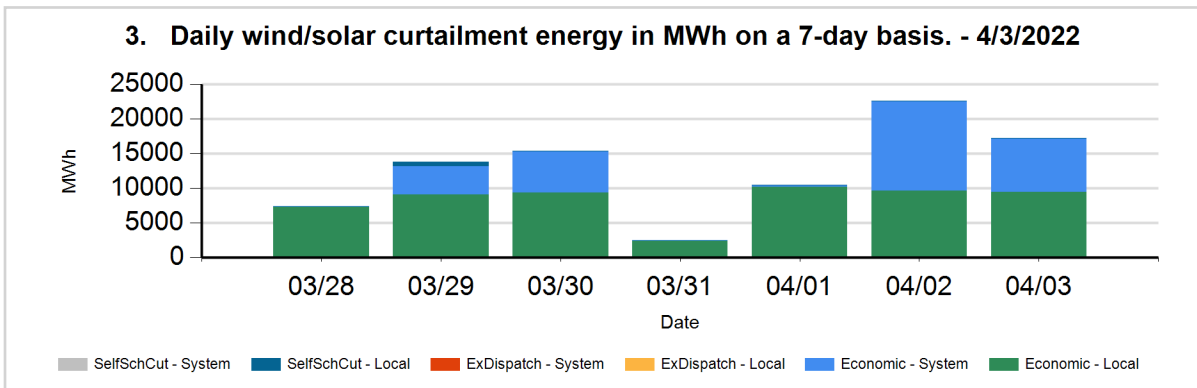
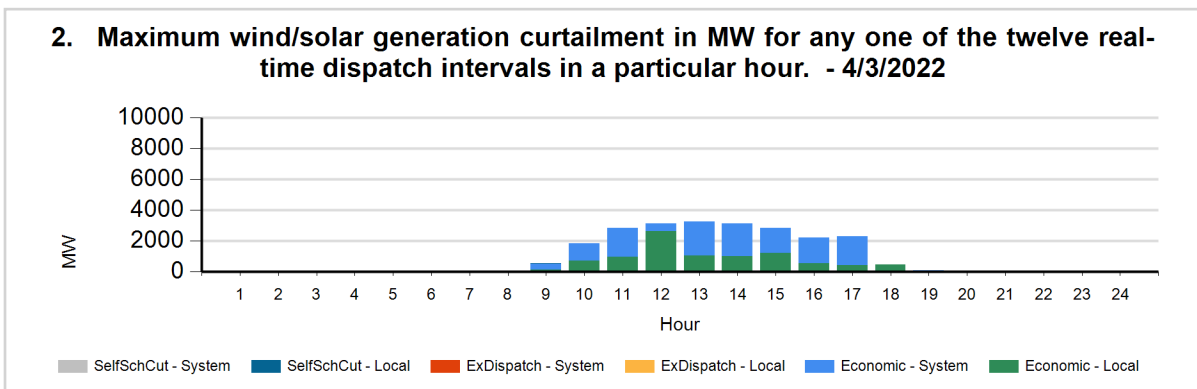
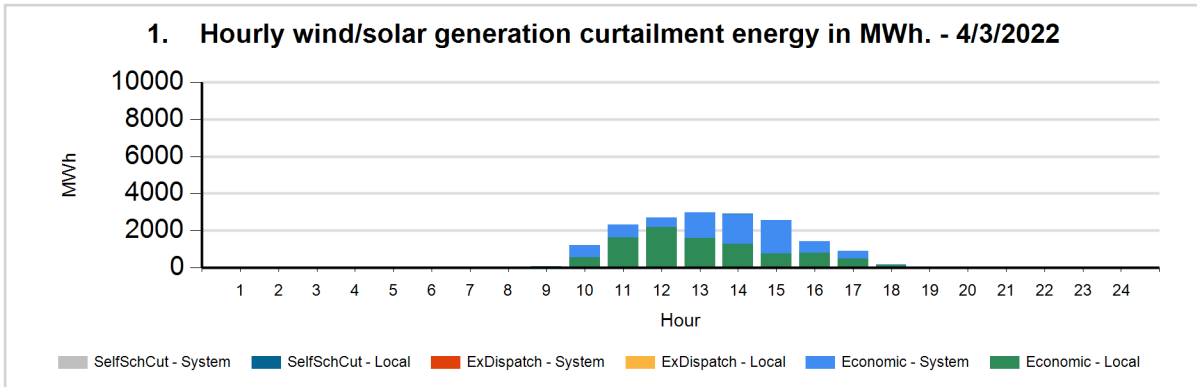
²The Renewables Watch report provides daily actual renewable production within the ISO grid. It is available at: <http://www.caiso.com/green/renewableswatch.html>.

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.

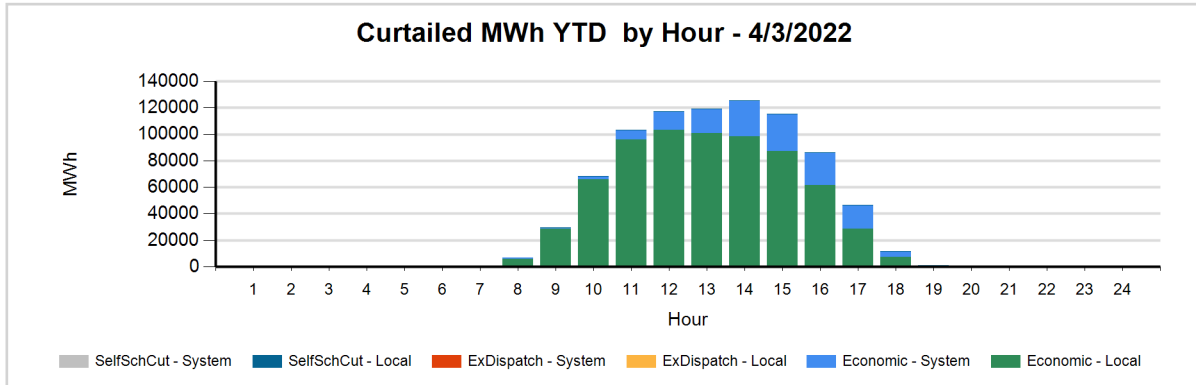
⁴For more information on oversupply conditions, please see:

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

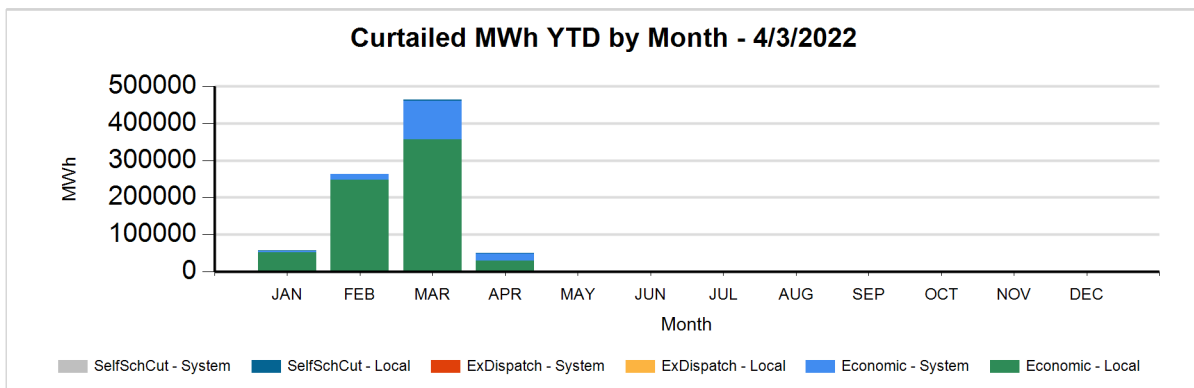
The following charts show the daily and 7-day wind and solar curtailment by category, if any.



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 - 4/3/2022
LocalEconomic	683,775
LocalSelfSchCut	3,875
SystemEconomic	145,486
TOTAL	833,135

Data used to produce hourly chart

DATE	HOUR	CURT TYPE	REASON	FUEL TYPE	CURTAILED MWH	CURTAILED MW
04/03	8	Economic	System	SOLR	1	7
04/03	9	Economic	Local	SOLR	39	108
04/03	9	Economic	Local	WIND	2	11
04/03	9	Economic	System	SOLR	34	385
04/03	9	Economic	System	WIND	2	18
04/03	9	SelfSchCut	Local	SOLR	1	9
04/03	10	Economic	Local	SOLR	524	684
04/03	10	Economic	Local	WIND	10	10
04/03	10	Economic	System	SOLR	646	1098
04/03	10	Economic	System	WIND	13	21
04/03	11	Economic	Local	SOLR	1626	941
04/03	11	Economic	Local	WIND	12	10
04/03	11	Economic	System	SOLR	669	1876
04/03	11	Economic	System	WIND	13	17
04/03	12	Economic	Local	SOLR	2121	2596
04/03	12	Economic	Local	WIND	44	46
04/03	12	Economic	System	SOLR	528	471
04/03	12	Economic	System	WIND	16	14
04/03	13	Economic	Local	SOLR	1551	976
04/03	13	Economic	Local	WIND	50	49
04/03	13	Economic	System	SOLR	1336	2207
04/03	13	Economic	System	WIND	21	21
04/03	14	Economic	Local	SOLR	1212	957
04/03	14	Economic	Local	WIND	48	50
04/03	14	Economic	System	SOLR	1600	2104
04/03	14	Economic	System	WIND	25	23
04/03	14	SelfSchCut	Local	SOLR	4	
04/03	15	Economic	Local	SOLR	726	1154
04/03	15	Economic	Local	WIND	21	52
04/03	15	Economic	System	SOLR	1752	1604
04/03	15	Economic	System	WIND	63	28

04/03	16	Economic	Local	SOLR	777	555
04/03	16	Economic	Local	WIND	6	
04/03	16	Economic	System	SOLR	591	1567
04/03	16	Economic	System	WIND	49	90
04/03	16	SelfSchCut	Local	SOLR	0	
04/03	17	Economic	Local	SOLR	490	412
04/03	17	Economic	Local	WIND	7	
04/03	17	Economic	System	SOLR	355	1799
04/03	17	Economic	System	WIND	30	62
04/03	18	Economic	Local	SOLR	170	458
04/03	18	Economic	Local	WIND	2	6
04/03	18	Economic	System	SOLR	6	
04/03	19	Economic	Local	SOLR	11	46
04/03	19	Economic	Local	WIND	2	6
04/03	19	Economic	System	SOLR	6	37
04/03	20	Economic	Local	WIND	1	9
04/03	21	Economic	Local	WIND	2	5
04/03	22	Economic	Local	WIND	2	5
04/03	23	Economic	Local	WIND	1	6
04/03	24	Economic	Local	WIND	0	1

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.