

Wind and Solar Curtailment April 02, 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.

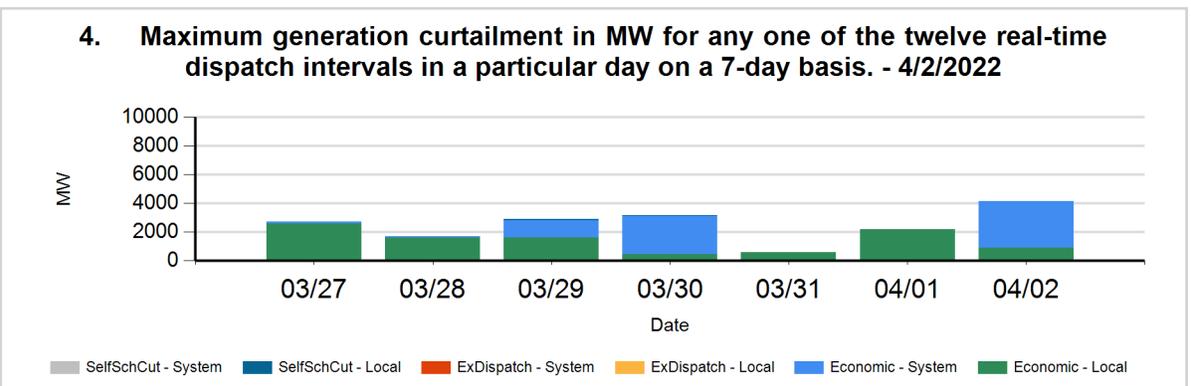
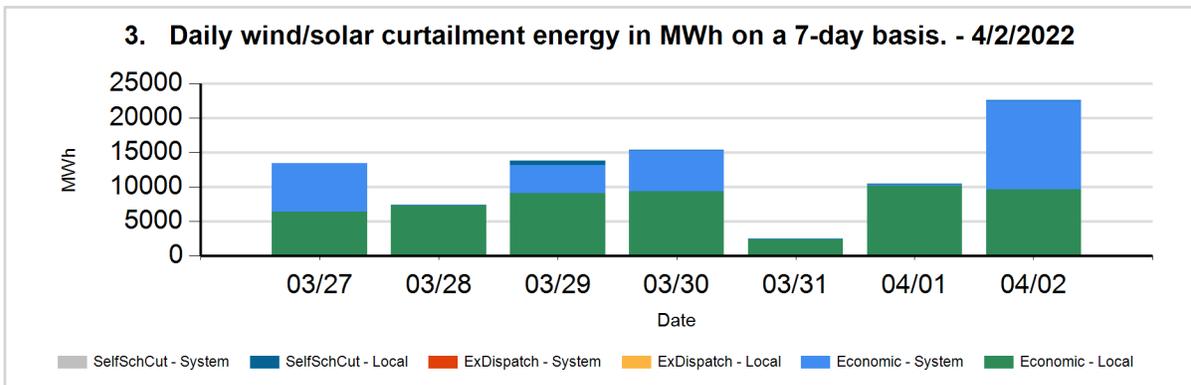
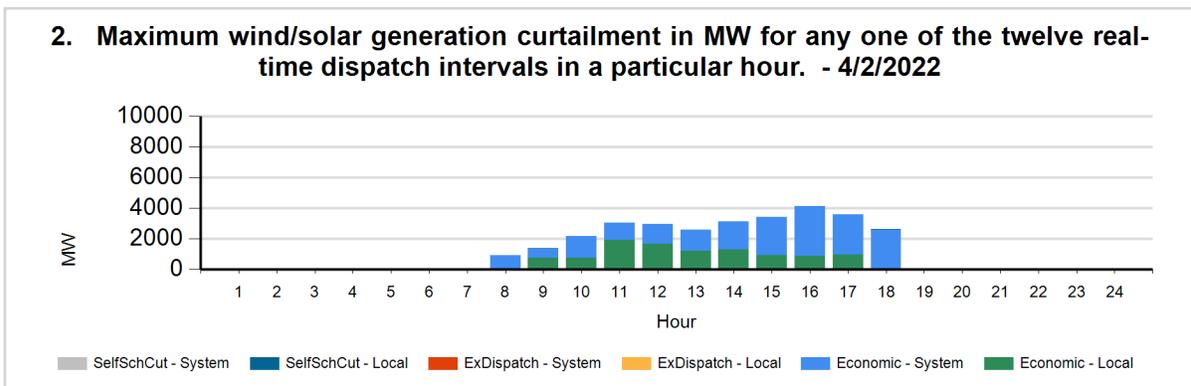
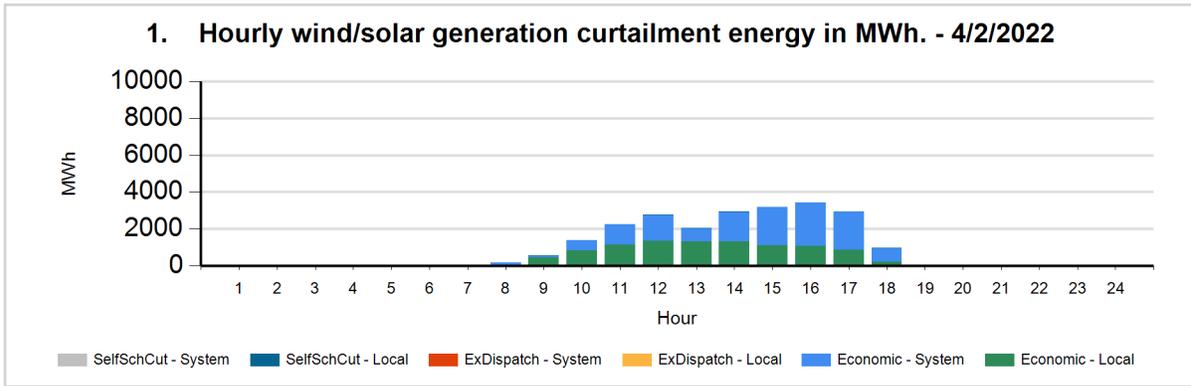
²The Renewables Watch report provides daily actual renewable production within the ISO grid. It is available at: <http://www.caiso.com/green/renewableswatch.html>.

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.

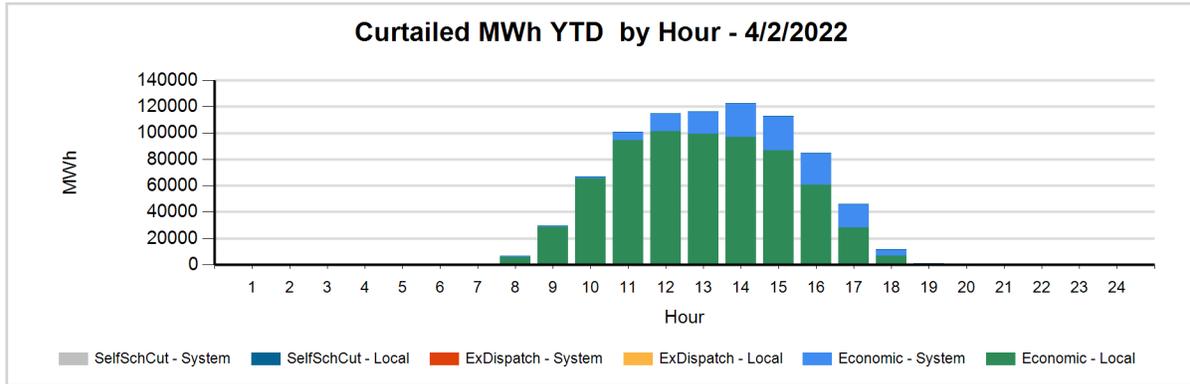
⁴For more information on oversupply conditions, please see:

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

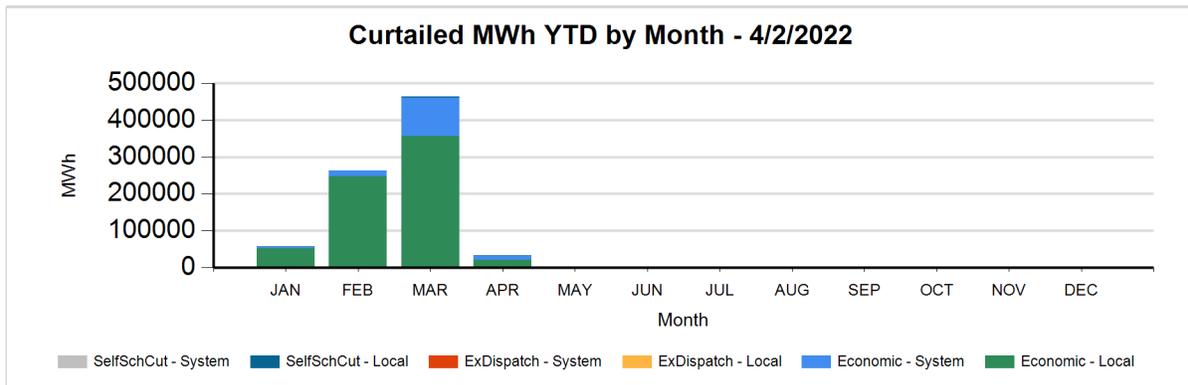
The following charts show the daily and 7-day wind and solar curtailment by category, if any.



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 - 4/2/2022
LocalEconomic	674,318
LocalSelfSchCut	3,870
SystemEconomic	137,728
TOTAL	815,916

Data used to produce hourly chart

DATE	HOUR	CURT TYPE	REASON	FUEL TYPE	CURTAILED MWH	CURTAILED MW
04/02	8	Economic	Local	SOLR	10	10
04/02	8	Economic	System	SOLR	141	890
04/02	8	Economic	System	WIND	1	8
04/02	9	Economic	Local	SOLR	447	760
04/02	9	Economic	Local	WIND	3	1
04/02	9	Economic	System	SOLR	113	611
04/02	9	Economic	System	WIND	0	1
04/02	9	SelfSchCut	Local	SOLR	1	7
04/02	10	Economic	Local	SOLR	821	766
04/02	10	Economic	Local	WIND	2	
04/02	10	Economic	System	SOLR	561	1381
04/02	10	Economic	System	WIND	4	5
04/02	11	Economic	Local	SOLR	1098	1796
04/02	11	Economic	Local	WIND	24	126
04/02	11	Economic	System	SOLR	1112	1120
04/02	11	Economic	System	WIND	12	
04/02	11	SelfSchCut	Local	SOLR	0	
04/02	12	Economic	Local	SOLR	1344	1559
04/02	12	Economic	Local	WIND	13	97
04/02	12	Economic	System	SOLR	1374	1309
04/02	12	Economic	System	WIND	18	4
04/02	12	SelfSchCut	Local	SOLR	2	
04/02	13	Economic	Local	SOLR	1297	1199
04/02	13	Economic	Local	WIND	6	9
04/02	13	Economic	System	SOLR	733	1360
04/02	13	Economic	System	WIND	15	25
04/02	13	SelfSchCut	Local	SOLR	3	
04/02	14	Economic	Local	SOLR	1296	1290
04/02	14	Economic	Local	WIND	15	14
04/02	14	Economic	System	SOLR	1507	1641
04/02	14	Economic	System	WIND	116	189

04/02	14	SelfSchCut	Local	SOLR	2	
04/02	15	Economic	Local	SOLR	1074	910
04/02	15	Economic	Local	WIND	27	18
04/02	15	Economic	System	SOLR	1904	2297
04/02	15	Economic	System	WIND	164	186
04/02	15	SelfSchCut	Local	SOLR	0	
04/02	16	Economic	Local	SOLR	1035	878
04/02	16	Economic	Local	WIND	37	4
04/02	16	Economic	System	SOLR	2222	3057
04/02	16	Economic	System	WIND	143	167
04/02	17	Economic	Local	SOLR	868	951
04/02	17	Economic	Local	WIND	5	2
04/02	17	Economic	System	SOLR	1961	2469
04/02	17	Economic	System	WIND	96	176
04/02	18	Economic	Local	SOLR	187	50
04/02	18	Economic	Local	WIND	2	
04/02	18	Economic	System	SOLR	746	2537
04/02	18	Economic	System	WIND	7	23
04/02	18	SelfSchCut	Local	SOLR	6	13
04/02	19	Economic	Local	SOLR	7	26
04/02	19	Economic	System	SOLR	4	27

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.