

Wind and Solar Curtailment March 23, 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.

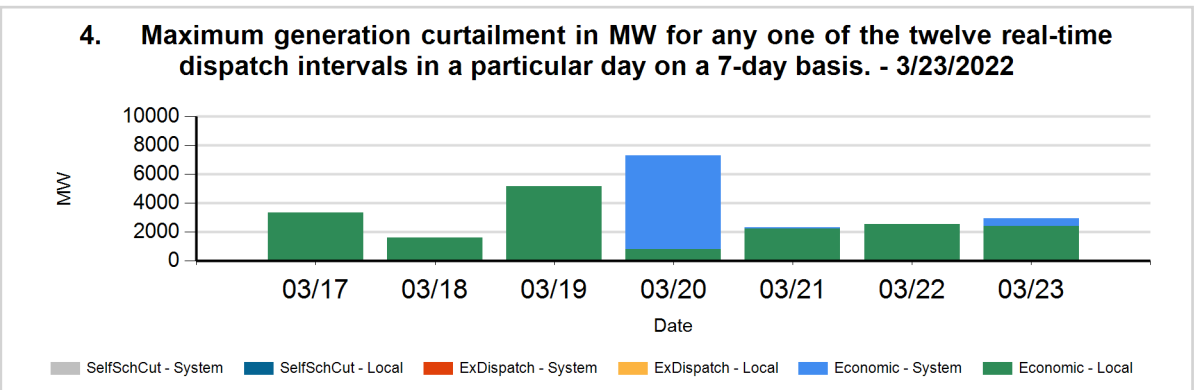
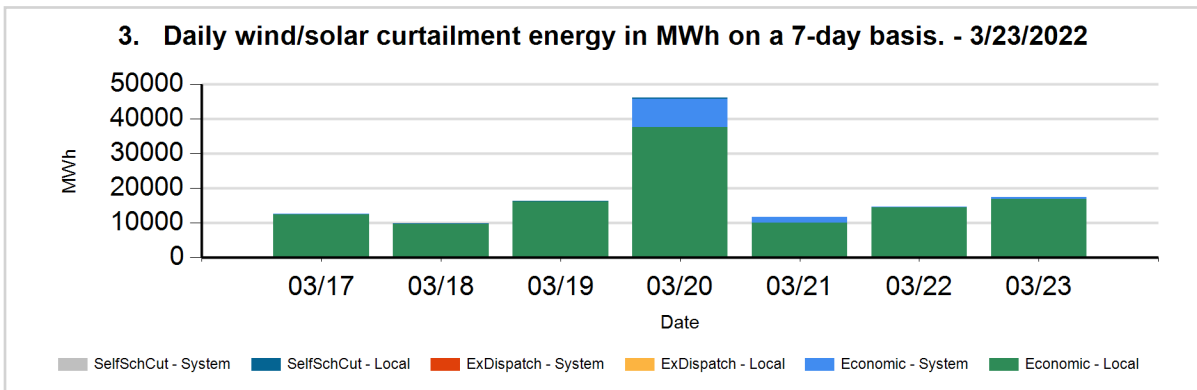
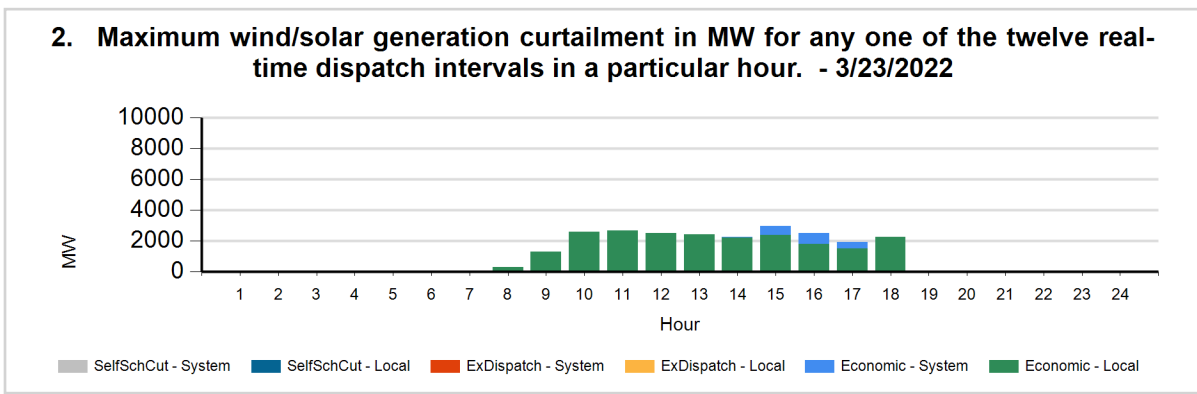
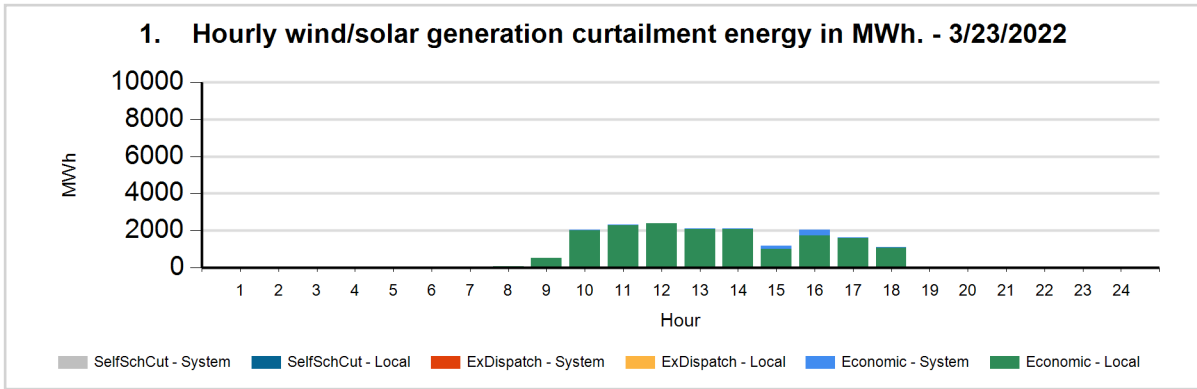
¹Only wind and solar resources can be reported in this manner because these resources have a forecast. Curtailment is defined as the difference between actual production and the forecast when actual production is less than the forecast.

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

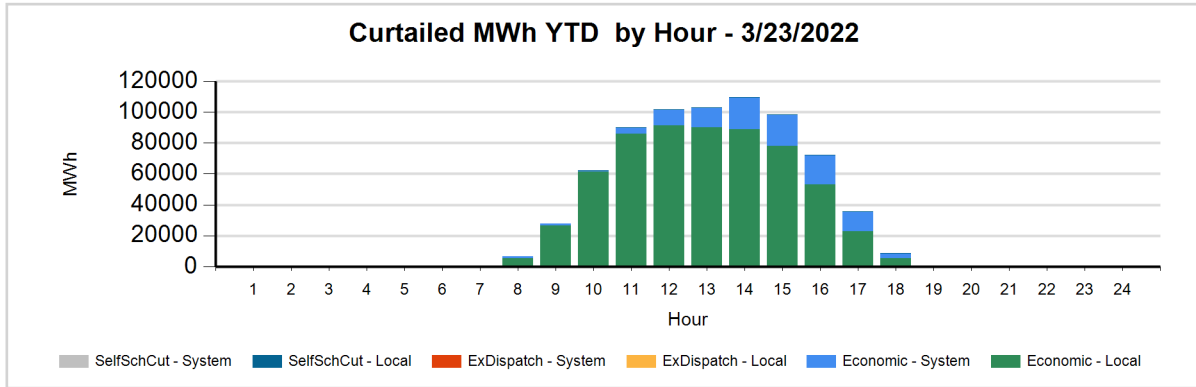
³Congestion occurs when available, least-cost energy cannot be delivered to some loads because transmission facilities do not have sufficient capacity to deliver the energy.

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

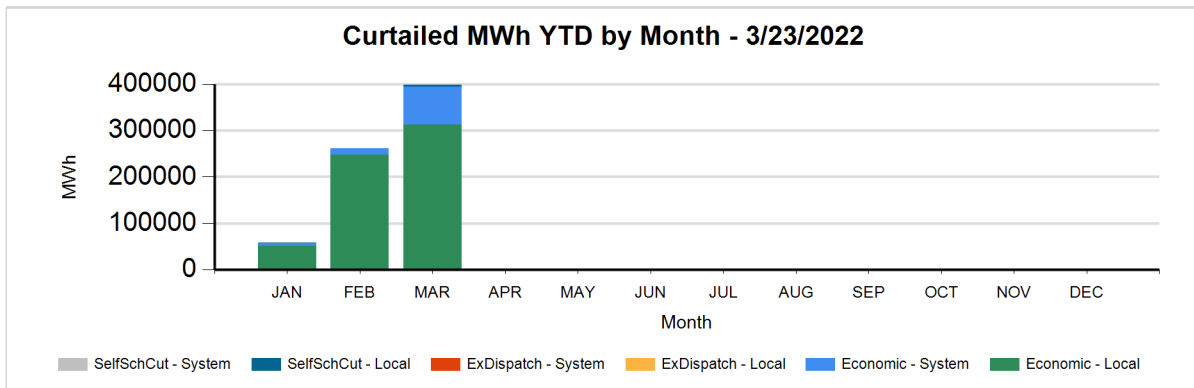
The following charts show the daily and 7-day wind and solar curtailment by category, if any.



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 - 3/23/2022
LocalEconomic	610,602
LocalSelfSchCut	3,172
SystemEconomic	103,959
TOTAL	717,733

Data used to produce hourly chart

DATE	HOUR	CURT TYPE	REASON	FUEL TYPE	CURTAILED MWH	CURTAILED MW
03/23	8	Economic	Local	SOLR	50	288
03/23	8	Economic	Local	WIND	5	
03/23	9	Economic	Local	SOLR	400	1057
03/23	9	Economic	Local	WIND	128	244
03/23	10	Economic	Local	SOLR	1744	2284
03/23	10	Economic	Local	WIND	299	312
03/23	10	Economic	System	SOLR	3	
03/23	11	Economic	Local	SOLR	1978	2294
03/23	11	Economic	Local	WIND	327	365
03/23	11	Economic	System	SOLR	1	
03/23	12	Economic	Local	SOLR	2172	2279
03/23	12	Economic	Local	WIND	221	235
03/23	13	Economic	Local	SOLR	1950	2271
03/23	13	Economic	Local	WIND	142	157
03/23	13	Economic	System	SOLR	32	
03/23	14	Economic	Local	SOLR	1914	2087
03/23	14	Economic	Local	WIND	183	166
03/23	14	Economic	System	SOLR	2	13
03/23	15	Economic	Local	SOLR	941	2189
03/23	15	Economic	Local	WIND	66	180
03/23	15	Economic	System	SOLR	153	570
03/23	15	Economic	System	WIND	1	2
03/23	16	Economic	Local	SOLR	1609	1663
03/23	16	Economic	Local	WIND	103	136
03/23	16	Economic	System	SOLR	334	687
03/23	16	Economic	System	WIND	5	7
03/23	17	Economic	Local	SOLR	1509	1416
03/23	17	Economic	Local	WIND	74	92
03/23	17	Economic	System	SOLR	45	393
03/23	17	Economic	System	WIND	3	18
03/23	18	Economic	Local	SOLR	1074	2242

03/23	18	Economic	Local	WIND	18	23
03/23	18	Economic	System	SOLR	1	
03/23	18	Economic	System	WIND	1	
03/23	18	SelfSchCut	Local	SOLR	0	
03/23	19	Economic	Local	SOLR	2	13

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.