

Wind and Solar Curtailment February 19, 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.

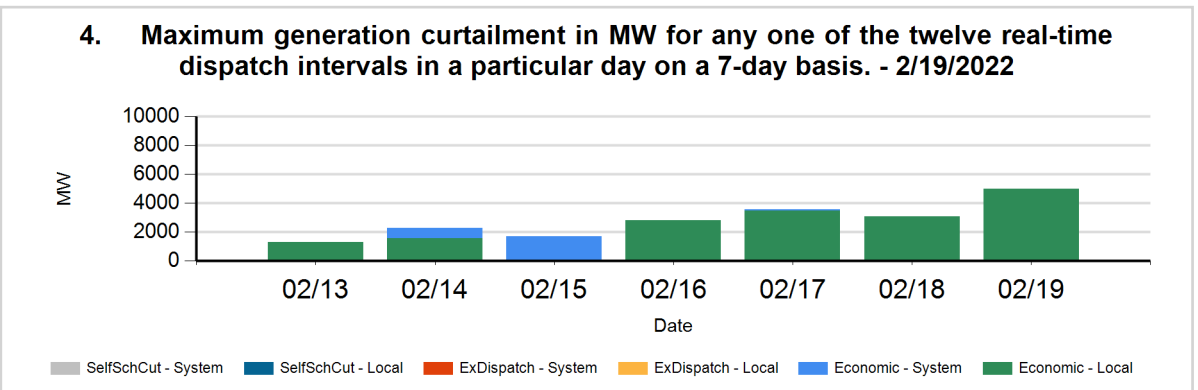
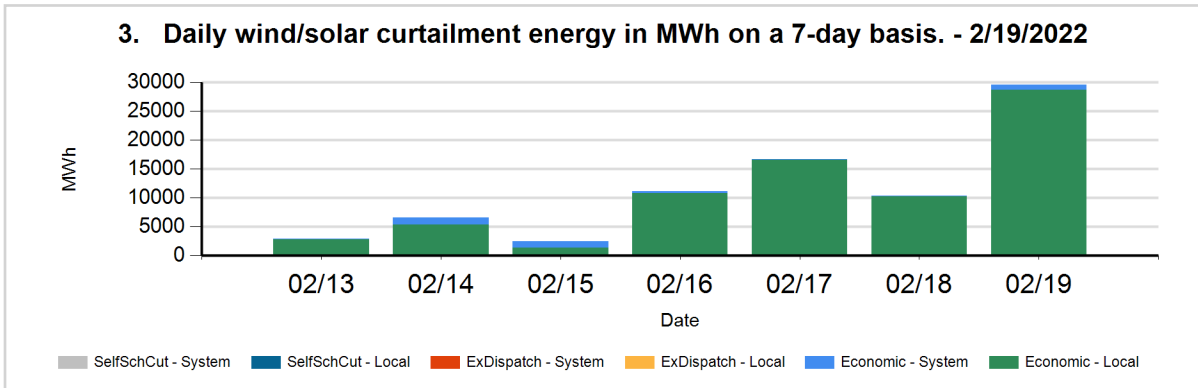
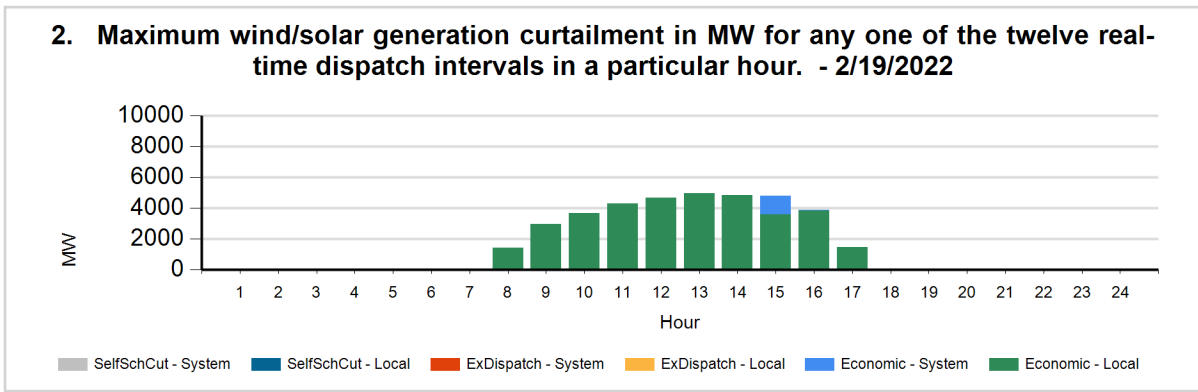
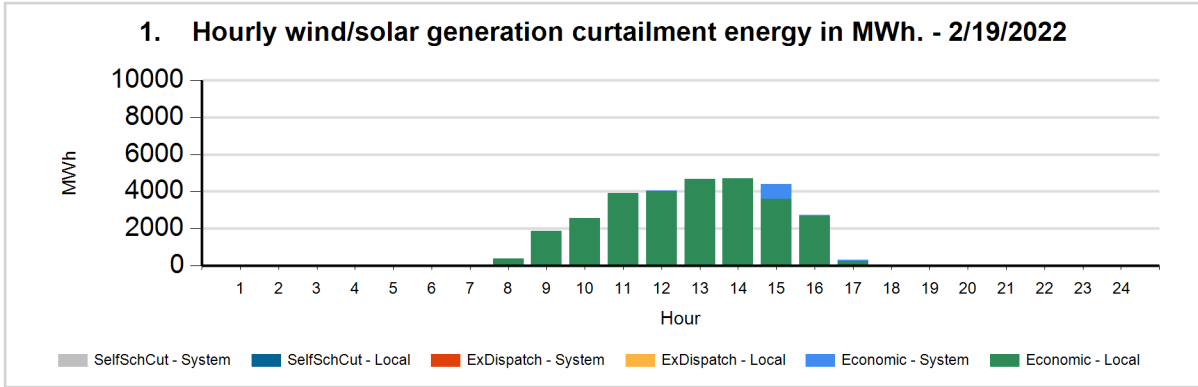
¹Only wind and solar resources can be reported in this manner because these resources have a forecast. Curtailment is defined as the difference between actual production and the forecast when actual production is less than the forecast.

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

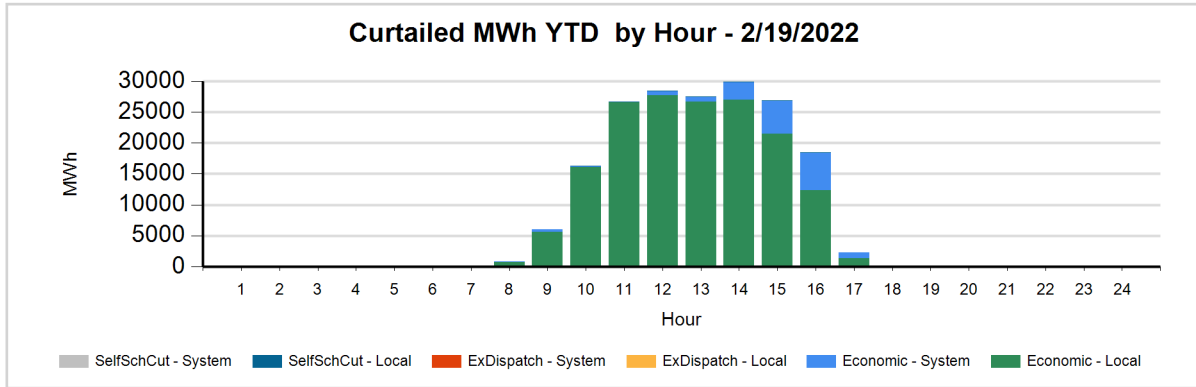
³Congestion occurs when available, least-cost energy cannot be delivered to some loads because transmission facilities do not have sufficient capacity to deliver the energy.

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

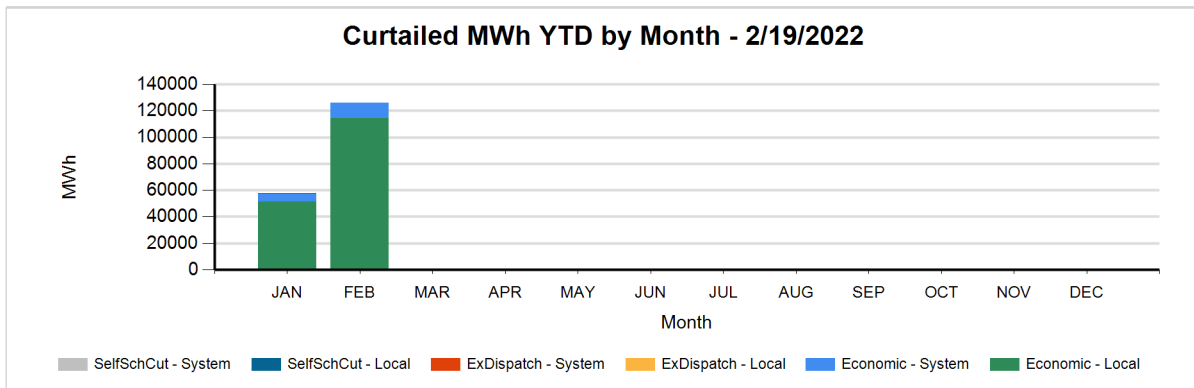
The following charts show the daily and 7-day wind and solar curtailment by category, if any.



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 - 2/19/2022
LocalEconomic	165,562
LocalSelfSchCut	64
SystemEconomic	17,751
TOTAL	183,376

Data used to produce hourly chart

DATE	HOUR	CURT TYPE	REASON	FUEL TYPE	CURTAILED MWH	CURTAILED MW
02/19	8	Economic	Local	SOLR	388	1398
02/19	8	Economic	Local	WIND	2	5
02/19	9	Economic	Local	SOLR	1853	2976
02/19	9	Economic	Local	WIND	8	
02/19	10	Economic	Local	SOLR	2559	3659
02/19	10	Economic	Local	WIND	16	14
02/19	11	Economic	Local	SOLR	3862	4249
02/19	11	Economic	Local	WIND	29	27
02/19	12	Economic	Local	SOLR	3999	4653
02/19	12	Economic	Local	WIND	23	32
02/19	12	Economic	System	SOLR	15	
02/19	12	Economic	System	WIND	2	
02/19	13	Economic	Local	SOLR	4621	4878
02/19	13	Economic	Local	WIND	46	82
02/19	14	Economic	Local	SOLR	4665	4803
02/19	14	Economic	Local	WIND	36	51
02/19	15	Economic	Local	SOLR	3600	3572
02/19	15	Economic	Local	WIND	12	
02/19	15	Economic	System	SOLR	766	1182
02/19	15	Economic	System	WIND	16	23
02/19	16	Economic	Local	SOLR	2663	3875
02/19	16	Economic	Local	WIND	3	10
02/19	16	Economic	System	SOLR	55	4
02/19	16	Economic	System	WIND	1	
02/19	17	Economic	Local	SOLR	244	1430
02/19	17	Economic	Local	WIND	3	32
02/19	17	Economic	System	SOLR	61	

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.

