

Wind and Solar Curtailment February 20, 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.
- Economic System: Market dispatch of generators with economic bids to mitigate systemwide oversupply.
- 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.

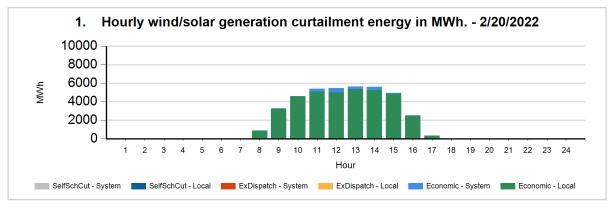
²The Renewables Watch report provides daily actual renewable production within the ISO grid. It is available at: <u>http://www.caiso.com/green/renewableswatch.html</u>.

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.

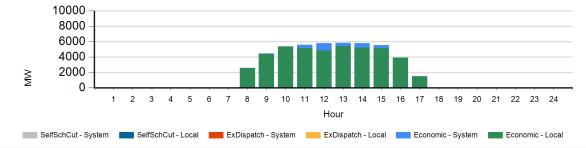
For more information on oversupply conditions, please see: <u>https://www.caiso.com/Documents/FlexibleResourcesHelpRenewables_FastFacts.pdf</u>

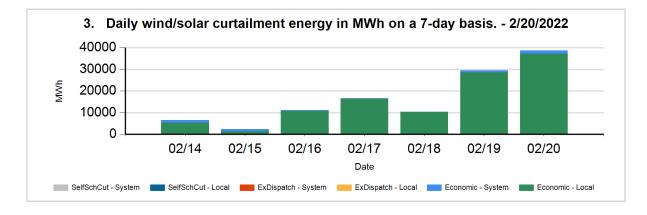


The following charts show the daily and 7-day wind and solar curtailment by category, if any.

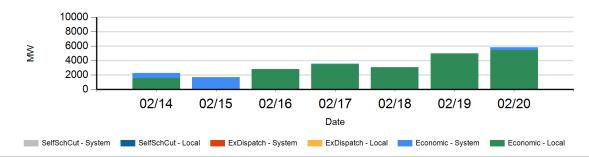


2. Maximum wind/solar generation curtailment in MW for any one of the twelve realtime dispatch intervals in a particular hour. - 2/20/2022



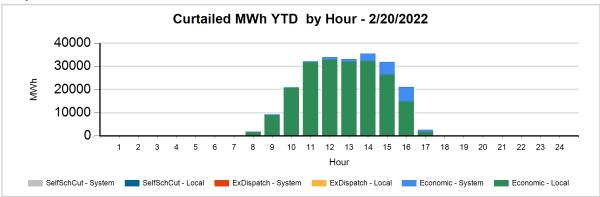


4. Maximum generation curtailment in MW for any one of the twelve real-time dispatch intervals in a particular day on a 7-day basis. - 2/20/2022

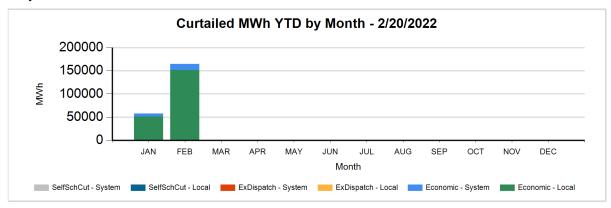




The following charts show hourly year to date wind and solar curtailment by category, if any.



The following charts show monthly year to date wind and solar curtailment by category, if any.



TYPE	YTD CURTAILED MWH - 2/20/2022
LocalEconomic	202,722
LocalSelfSchCut	64
SystemEconomic	19,293
TOTAL	222,079



Data used to produce hourly chart

DATE	HOU R	CURT TYPE	REASON	FUEL TYPE	CURTAILED MWH	CURTAILED MW
02/20	8	Economic	Local	SOLR	873	2520
02/20	8	Economic	Local	WIND	9	45
02/20	8	Economic	System	SOLR	2	
02/20	9	Economic	Local	SOLR	3227	4346
02/20	9	Economic	Local	WIND	30	72
02/20	9	Economic	System	SOLR	17	45
02/20	10	Economic	Local	SOLR	4501	5343
02/20	10	Economic	Local	WIND	49	43
02/20	10	Economic	System	SOLR	63	
02/20	11	Economic	Local	SOLR	5001	5110
02/20	11	Economic	Local	WIND	77	65
02/20	11	Economic	System	SOLR	326	418
02/20	11	Economic	System	WIND	8	
02/20	12	Economic	Local	SOLR	4912	4779
02/20	12	Economic	Local	WIND	103	61
02/20	12	Economic	System	SOLR	375	712
02/20	12	Economic	System	WIND	89	228
02/20	13	Economic	Local	SOLR	5223	5247
02/20	13	Economic	Local	WIND	150	171
02/20	13	Economic	System	SOLR	258	403
02/20	14	Economic	Local	SOLR	4974	4910
02/20	14	Economic	Local	WIND	286	302
02/20	14	Economic	System	SOLR	333	493
02/20	14	Economic	System	WIND	11	83
02/20	15	Economic	Local	SOLR	4575	4692
02/20	15	Economic	Local	WIND	306	418
02/20	15	Economic	System	SOLR	61	421
02/20	16	Economic	Local	SOLR	2368	3599
02/20	16	Economic	Local	WIND	158	320
02/20	17	Economic	Local	SOLR	336	1482
02/20	17	Economic	Local	WIND	2	4



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.