

Wind and Solar Curtailment March 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 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.

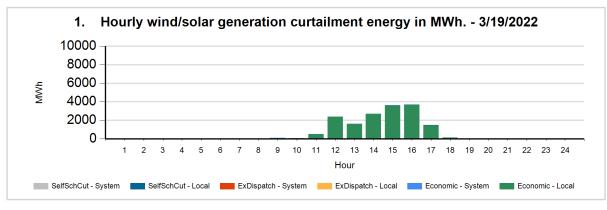
²The Renewables Watch report provides daily actual renewable production within the ISO grid. It is available at: <u>http://www.caiso.com/green/renewableswatch.html</u>.

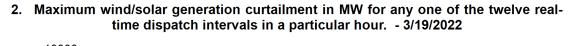
³Congestion occurs when available, least-cost energy cannot be delivered to some loads because transmission facilities do not have sufficient capacity to deliver the energy.

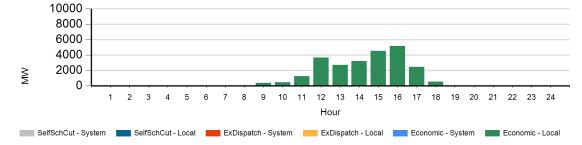
For more information on oversupply conditions, please see: <u>https://www.caiso.com/Documents/FlexibleResourcesHelpRenewables_FastFacts.pdf</u>

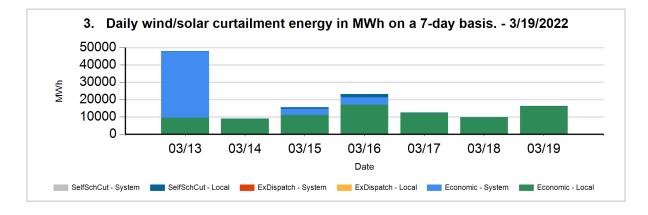


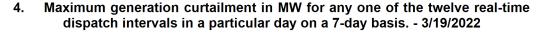
The following charts show the daily and 7-day wind and solar curtailment by category, if any.

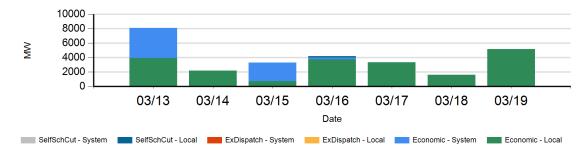






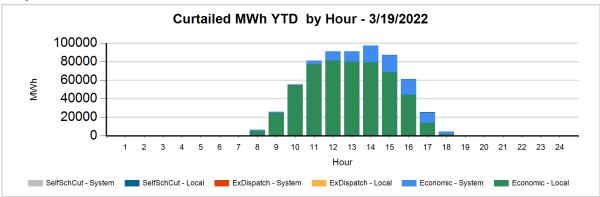




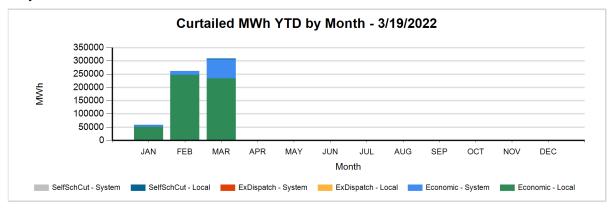




The following charts show hourly year to date wind and solar curtailment by category, if any.



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



TYPE	YTD CURTAILED MWH - 3/19/2022
LocalEconomic	531,452
LocalSelfSchCut	2,851
SystemEconomic	93,625
TOTAL	627,928



Data used to produce hourly chart

DATE	HOU R	CURT TYPE	REASON	FUEL TYPE	CURTAILED MWH	CURTAILED MW
03/19	9	Economic	Local	SOLR	45	250
03/19	9	Economic	Local	WIND	43	109
03/19	9	Economic	System	SOLR	1	
03/19	10	Economic	Local	SOLR	63	356
03/19	10	Economic	Local	WIND	12	86
03/19	11	Economic	Local	SOLR	446	1058
03/19	11	Economic	Local	WIND	71	173
03/19	11	Economic	System	SOLR	3	
03/19	11	Economic	System	WIND	1	
03/19	12	Economic	Local	SOLR	2241	3472
03/19	12	Economic	Local	WIND	158	180
03/19	13	Economic	Local	SOLR	1432	2610
03/19	13	Economic	Local	WIND	190	108
03/19	13	Economic	System	SOLR	3	
03/19	14	Economic	Local	SOLR	2387	2832
03/19	14	Economic	Local	WIND	296	380
03/19	15	Economic	Local	SOLR	3230	4074
03/19	15	Economic	Local	WIND	355	427
03/19	15	Economic	System	SOLR	48	28
03/19	15	Economic	System	WIND	5	
03/19	16	Economic	Local	SOLR	3385	4690
03/19	16	Economic	Local	WIND	302	467
03/19	16	Economic	System	SOLR	3	
03/19	17	Economic	Local	SOLR	1330	2339
03/19	17	Economic	Local	WIND	131	100
03/19	17	SelfSchCut	Local	WIND	26	
03/19	18	Economic	Local	SOLR	93	490
03/19	18	Economic	Local	WIND	25	47
03/19	21	Economic	System	WIND	4	51

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.

