

Wind and Solar Curtailment February 16, 2021

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.

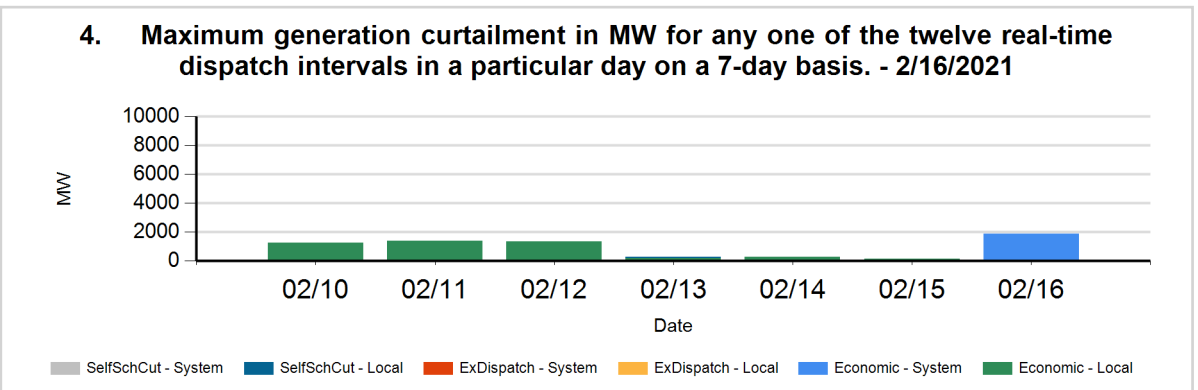
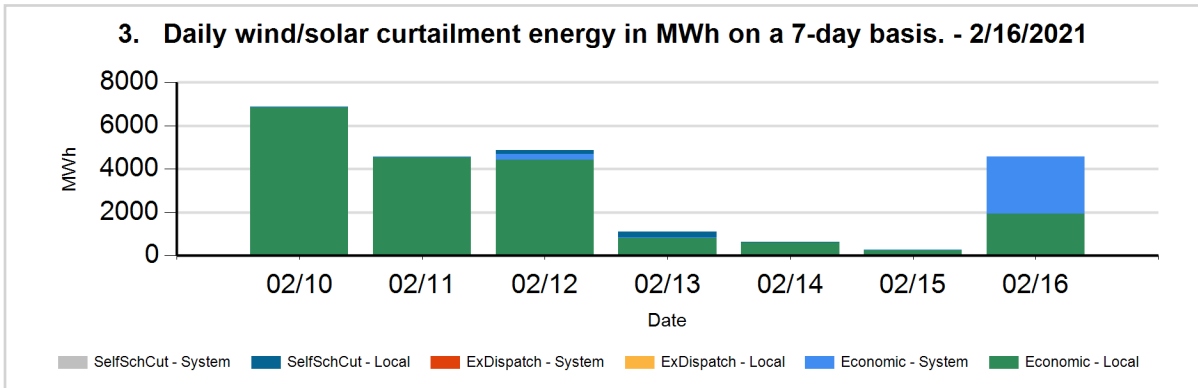
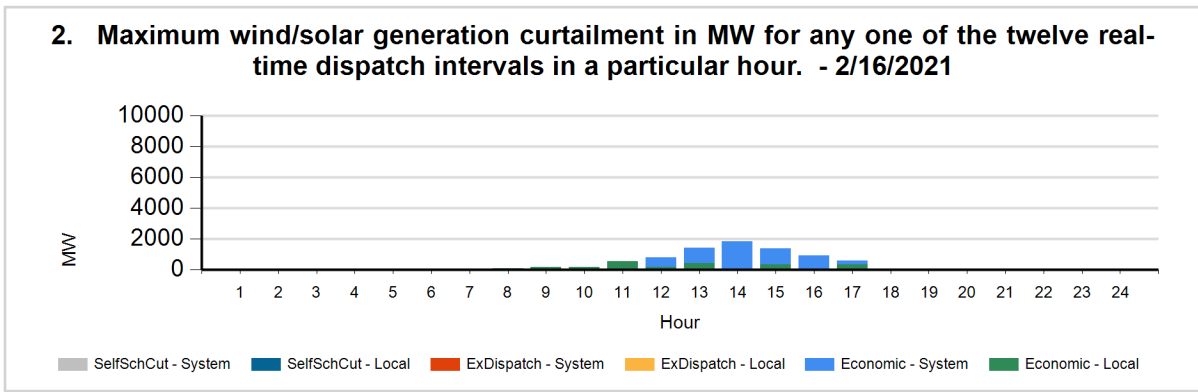
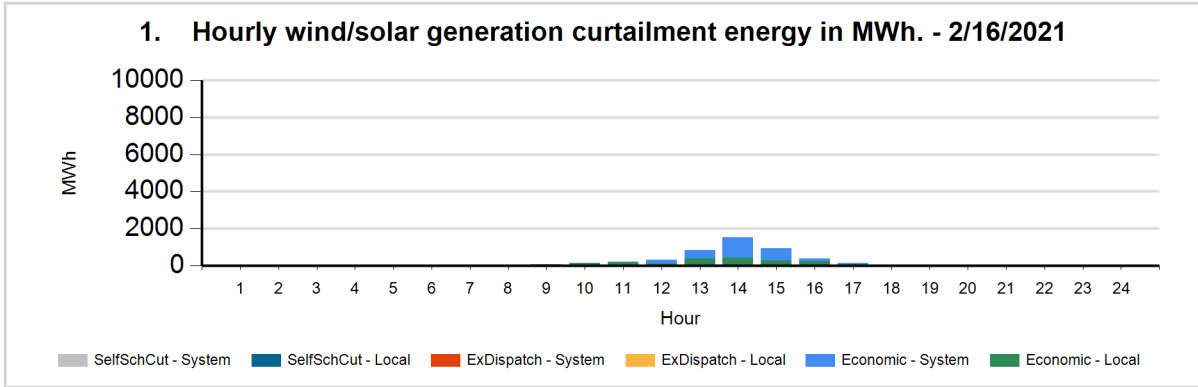
¹Only wind and solar resources can be reported in this manner because these resources have a forecast. Curtailment is defined as the difference between actual production and the forecast when actual production is less than the forecast.

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

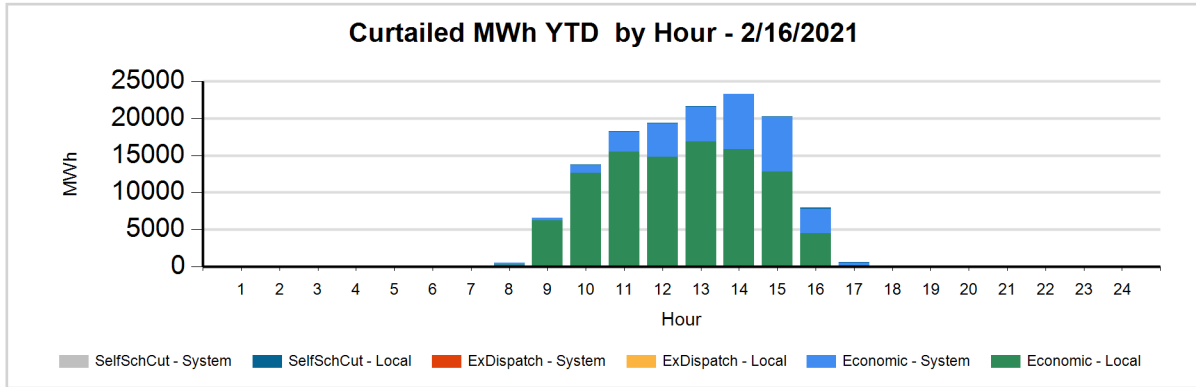
³Congestion occurs when available, least-cost energy cannot be delivered to some loads because transmission facilities do not have sufficient capacity to deliver the energy.

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

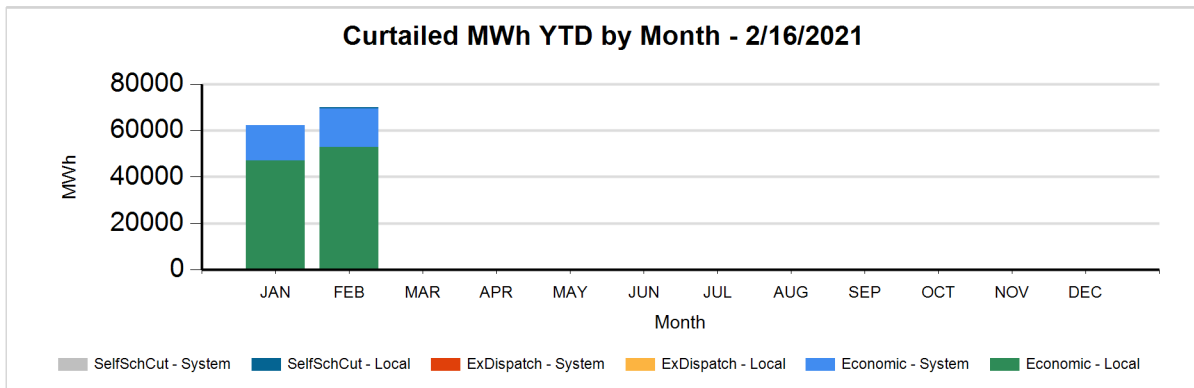
The following charts show the daily and 7-day wind and solar curtailment by category, if any.



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 - 2/16/2021
LocalEconomic	99,954
LocalSelfSchCut	417
SystemEconomic	31,963
TOTAL	132,334

Data used to produce hourly chart

DATE	HOUR	CURT TYPE	REASON	FUEL TYPE	CURTAILED MWH	CURTAILED MW
02/16	3	Economic	Local	WIND	2	7
02/16	7	Economic	Local	WIND	21	32
02/16	8	Economic	Local	SOLR	29	81
02/16	8	Economic	Local	WIND	1	
02/16	8	Economic	System	SOLR	9	
02/16	9	Economic	Local	SOLR	70	168
02/16	9	Economic	Local	WIND	2	7
02/16	10	Economic	Local	SOLR	123	162
02/16	10	Economic	Local	WIND	10	14
02/16	11	Economic	Local	SOLR	187	524
02/16	11	Economic	Local	WIND	10	12
02/16	11	Economic	System	SOLR	5	
02/16	11	Economic	System	WIND	1	
02/16	12	Economic	Local	SOLR	79	141
02/16	12	Economic	Local	WIND	5	20
02/16	12	Economic	System	SOLR	223	594
02/16	12	Economic	System	WIND	11	35
02/16	13	Economic	Local	SOLR	364	375
02/16	13	Economic	Local	WIND	25	23
02/16	13	Economic	System	SOLR	406	1006
02/16	13	Economic	System	WIND	15	27
02/16	14	Economic	Local	SOLR	404	42
02/16	14	Economic	Local	WIND	15	
02/16	14	Economic	System	SOLR	1066	1732
02/16	14	Economic	System	WIND	34	62
02/16	15	Economic	Local	SOLR	265	318
02/16	15	Economic	Local	WIND	15	20
02/16	15	Economic	System	SOLR	425	787
02/16	15	Economic	System	WIND	213	251
02/16	16	Economic	Local	SOLR	234	44
02/16	16	Economic	Local	WIND	12	

02/16	16	Economic	System	SOLR	77	642
02/16	16	Economic	System	WIND	67	244
02/16	17	Economic	Local	SOLR	39	294
02/16	17	Economic	Local	WIND	18	14
02/16	17	Economic	System	SOLR	13	60
02/16	17	Economic	System	WIND	56	204
02/16	18	Economic	Local	SOLR	2	23

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.