

Wind and Solar Curtailment February 17, 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.

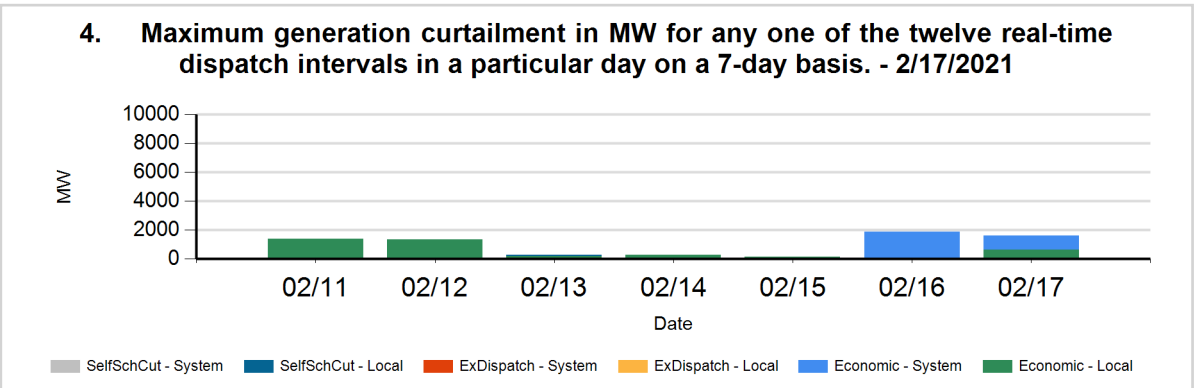
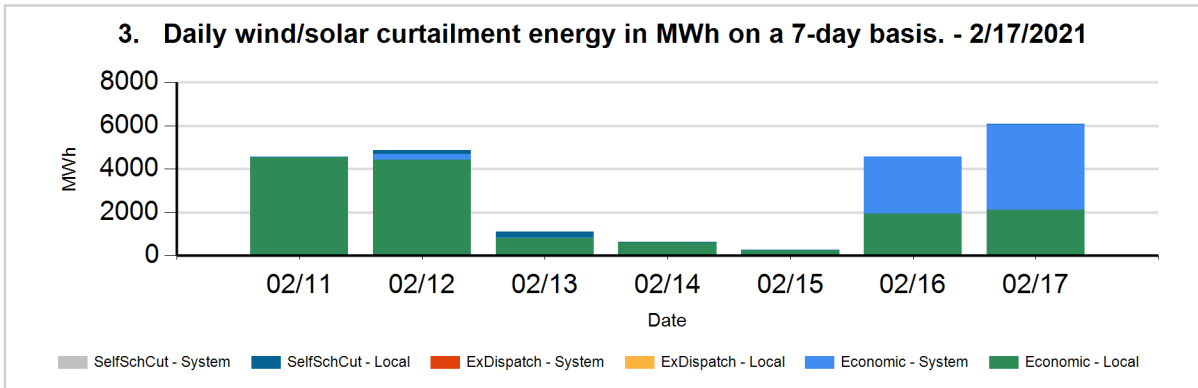
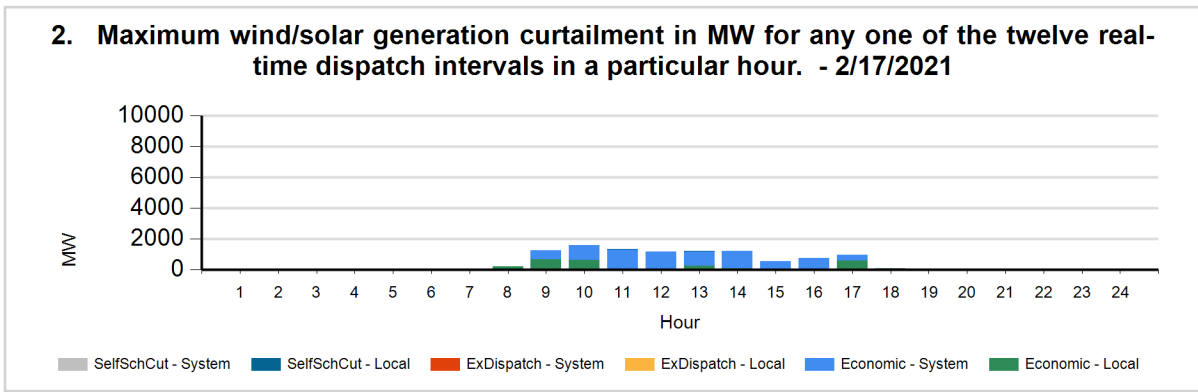
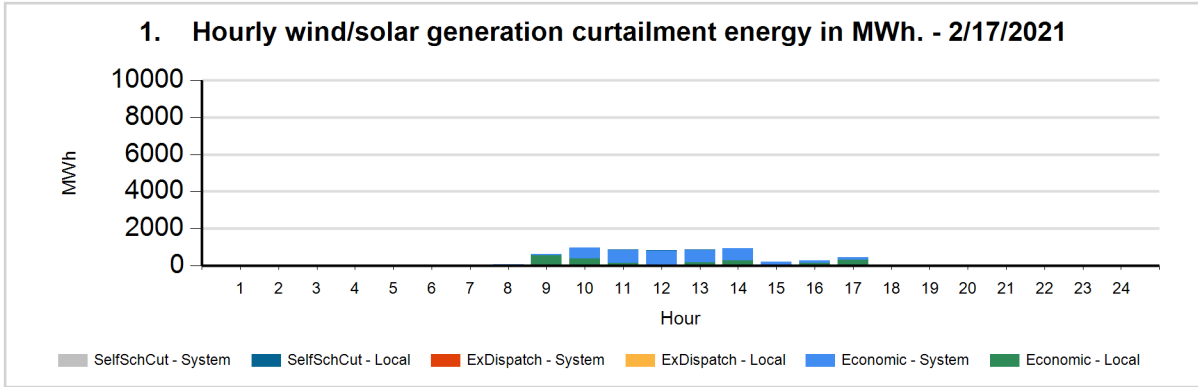
¹Only wind and solar resources can be reported in this manner because these resources have a forecast. Curtailment is defined as the difference between actual production and the forecast when actual production is less than the forecast.

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

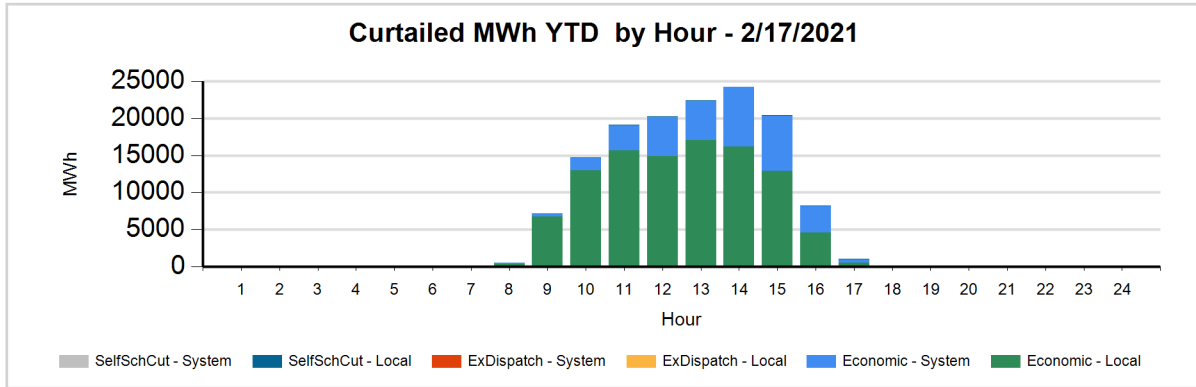
³Congestion occurs when available, least-cost energy cannot be delivered to some loads because transmission facilities do not have sufficient capacity to deliver the energy.

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

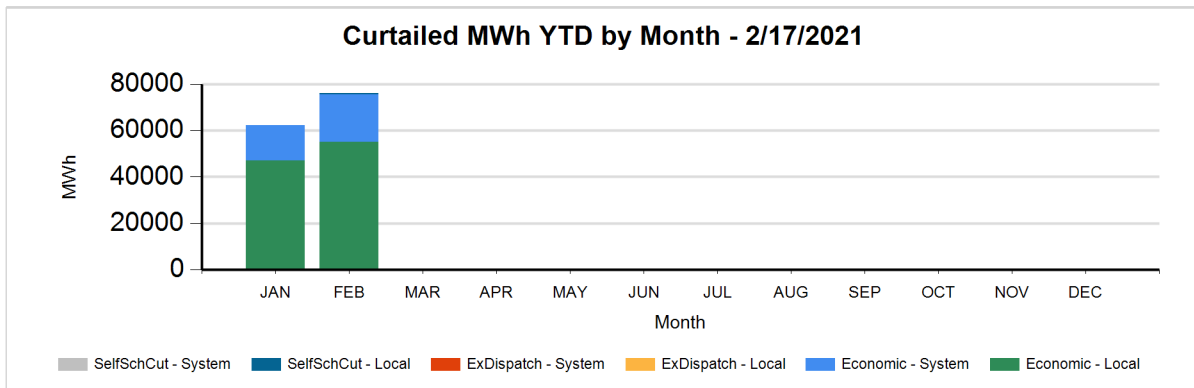
The following charts show the daily and 7-day wind and solar curtailment by category, if any.



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 - 2/17/2021
LocalEconomic	102,061
LocalSelfSchCut	424
SystemEconomic	35,927
TOTAL	138,411

Data used to produce hourly chart

DATE	HOUR	CURT TYPE	REASON	FUEL TYPE	CURTAILED MWH	CURTAILED MW
02/17	1	Economic	Local	WIND	1	10
02/17	4	Economic	System	WIND	0	3
02/17	8	Economic	Local	SOLR	50	190
02/17	8	Economic	Local	WIND	3	17
02/17	8	Economic	System	SOLR	10	
02/17	9	Economic	Local	SOLR	539	671
02/17	9	Economic	Local	WIND	15	6
02/17	9	Economic	System	SOLR	49	530
02/17	9	Economic	System	WIND	2	21
02/17	10	Economic	Local	SOLR	357	605
02/17	10	Economic	Local	WIND	4	
02/17	10	Economic	System	SOLR	569	948
02/17	10	Economic	System	WIND	34	40
02/17	11	Economic	Local	SOLR	149	22
02/17	11	Economic	System	SOLR	684	1271
02/17	11	Economic	System	WIND	41	46
02/17	11	SelfSchCut	Local	SOLR	4	7
02/17	12	Economic	Local	SOLR	37	42
02/17	12	Economic	Local	WIND	6	
02/17	12	Economic	System	SOLR	747	1081
02/17	12	Economic	System	WIND	34	38
02/17	12	SelfSchCut	Local	SOLR	1	
02/17	13	Economic	Local	SOLR	161	250
02/17	13	Economic	Local	WIND	10	
02/17	13	Economic	System	SOLR	658	895
02/17	13	Economic	System	WIND	31	46
02/17	13	SelfSchCut	Local	SOLR	1	7
02/17	14	Economic	Local	SOLR	239	48
02/17	14	Economic	Local	WIND	44	33
02/17	14	Economic	System	SOLR	642	1121
02/17	14	Economic	System	WIND	9	8

02/17	14	SelfSchCut	Local	SOLR	0	
02/17	15	Economic	Local	SOLR	43	36
02/17	15	Economic	System	SOLR	132	455
02/17	15	Economic	System	WIND	25	45
02/17	16	Economic	Local	SOLR	124	26
02/17	16	Economic	Local	WIND	12	
02/17	16	Economic	System	SOLR	135	672
02/17	16	Economic	System	WIND	10	44
02/17	17	Economic	Local	SOLR	271	440
02/17	17	Economic	Local	WIND	29	119
02/17	17	Economic	System	SOLR	152	394
02/17	17	Economic	System	WIND	2	6
02/17	18	Economic	Local	SOLR	13	81

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.