

Wind and Solar Curtailment February 21, 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.

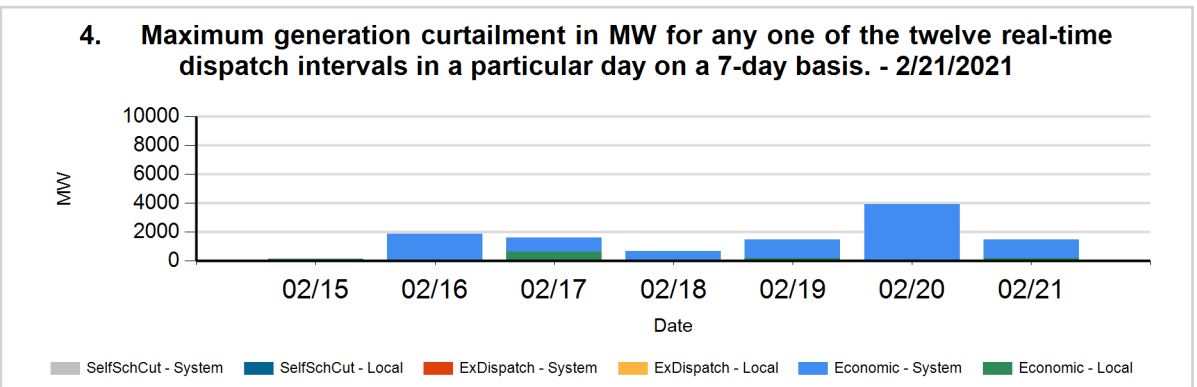
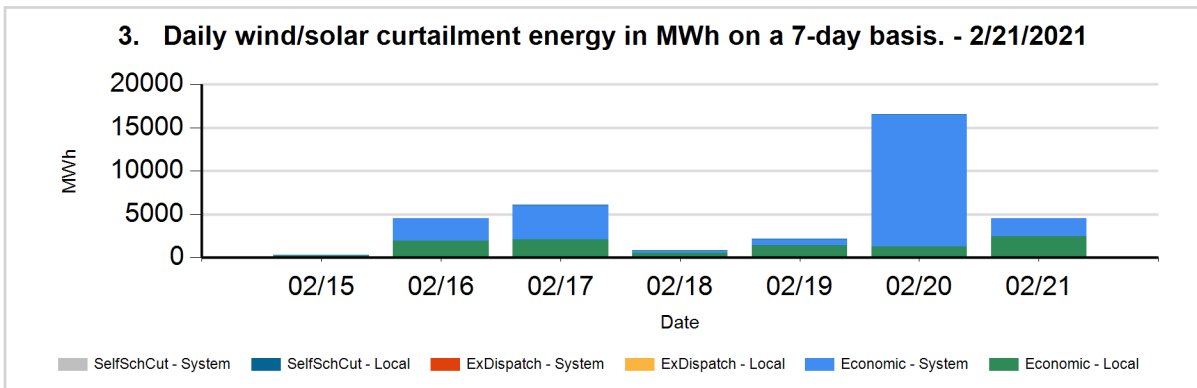
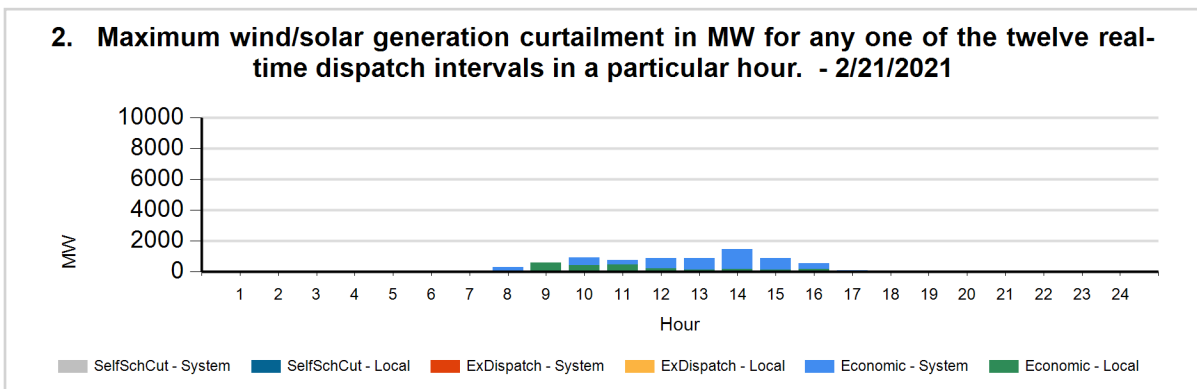
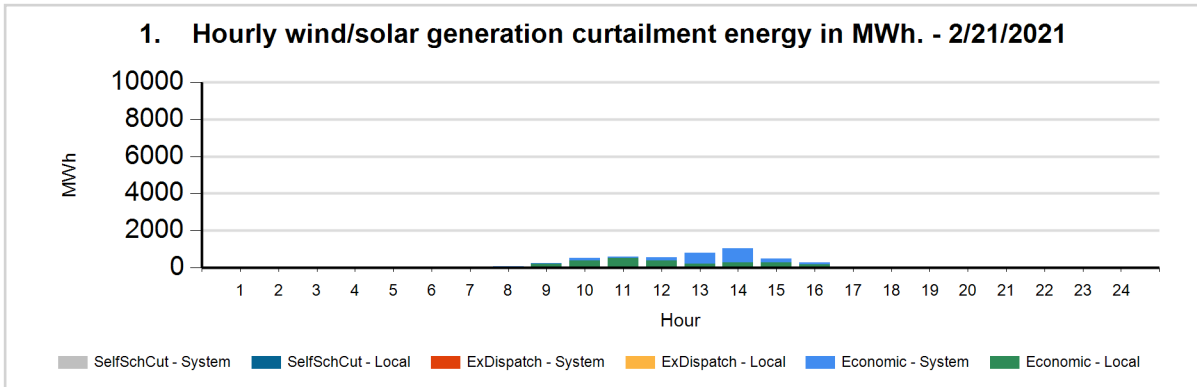
¹Only wind and solar resources can be reported in this manner because these resources have a forecast. Curtailment is defined as the difference between actual production and the forecast when actual production is less than the forecast.

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

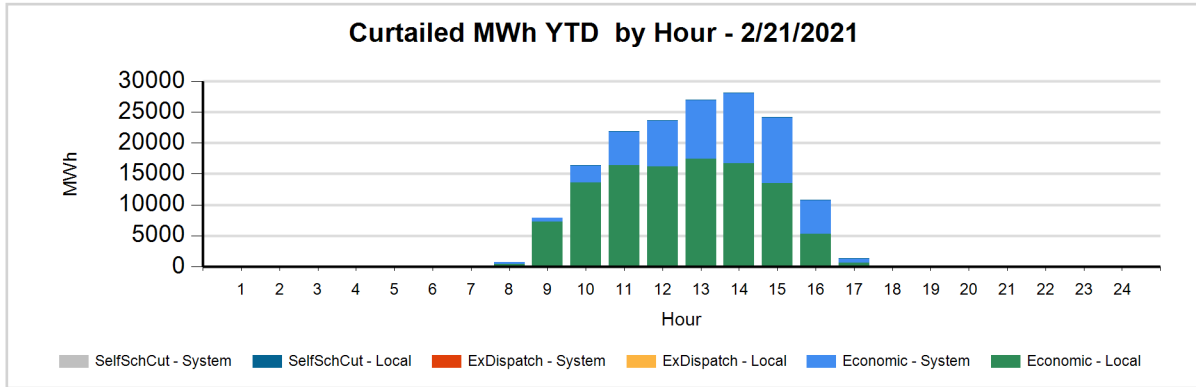
³Congestion occurs when available, least-cost energy cannot be delivered to some loads because transmission facilities do not have sufficient capacity to deliver the energy.

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

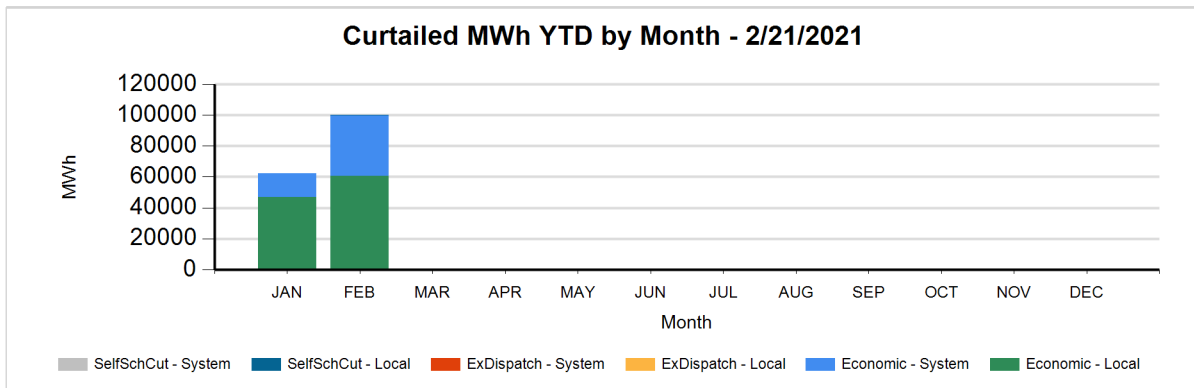
The following charts show the daily and 7-day wind and solar curtailment by category, if any.



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 - 2/21/2021
LocalEconomic	107,616
LocalSelfSchCut	441
SystemEconomic	54,363
TOTAL	162,419

Data used to produce hourly chart

DATE	HOUR	CURT TYPE	REASON	FUEL TYPE	CURTAILED MWH	CURTAILED MW
02/21	8	Economic	Local	SOLR	15	24
02/21	8	Economic	System	SOLR	53	238
02/21	8	Economic	System	WIND	4	15
02/21	9	Economic	Local	SOLR	222	600
02/21	9	Economic	Local	WIND	22	
02/21	9	Economic	System	SOLR	3	
02/21	10	Economic	Local	SOLR	286	400
02/21	10	Economic	Local	WIND	99	
02/21	10	Economic	System	SOLR	119	488
02/21	10	Economic	System	WIND	3	10
02/21	11	Economic	Local	SOLR	411	434
02/21	11	Economic	Local	WIND	100	
02/21	11	Economic	System	SOLR	71	320
02/21	11	Economic	System	WIND	3	5
02/21	12	Economic	Local	SOLR	328	195
02/21	12	Economic	Local	WIND	33	
02/21	12	Economic	System	SOLR	190	651
02/21	12	Economic	System	WIND	4	12
02/21	13	Economic	Local	SOLR	204	137
02/21	13	Economic	System	SOLR	564	730
02/21	13	Economic	System	WIND	15	12
02/21	14	Economic	Local	SOLR	261	176
02/21	14	Economic	Local	WIND	2	
02/21	14	Economic	System	SOLR	754	1256
02/21	14	Economic	System	WIND	21	37
02/21	15	Economic	Local	SOLR	271	120
02/21	15	Economic	Local	WIND	5	
02/21	15	Economic	System	SOLR	190	738
02/21	15	Economic	System	WIND	8	27
02/21	16	Economic	Local	SOLR	169	181
02/21	16	Economic	Local	WIND	7	

02/21	16	Economic	System	SOLR	88	358
02/21	16	Economic	System	WIND	0	
02/21	17	Economic	Local	SOLR	12	5
02/21	17	Economic	System	SOLR	6	76

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.