

Wind and Solar Curtailment March 06, 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.

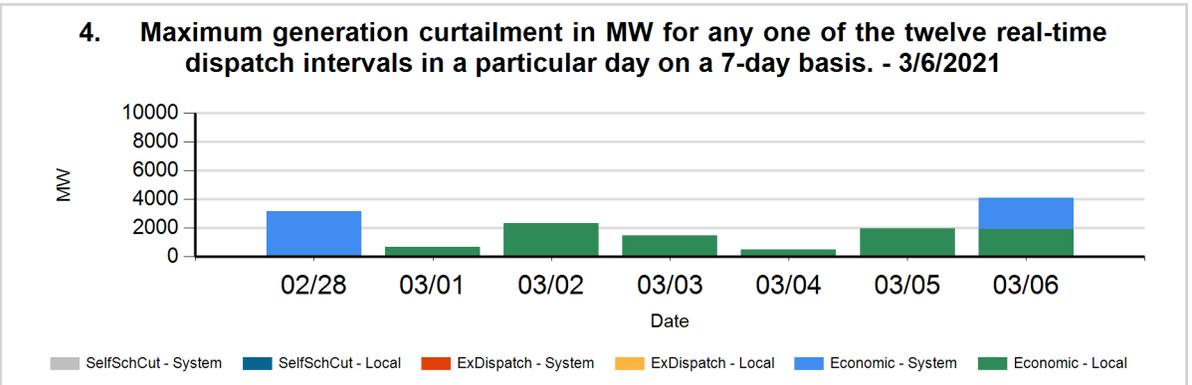
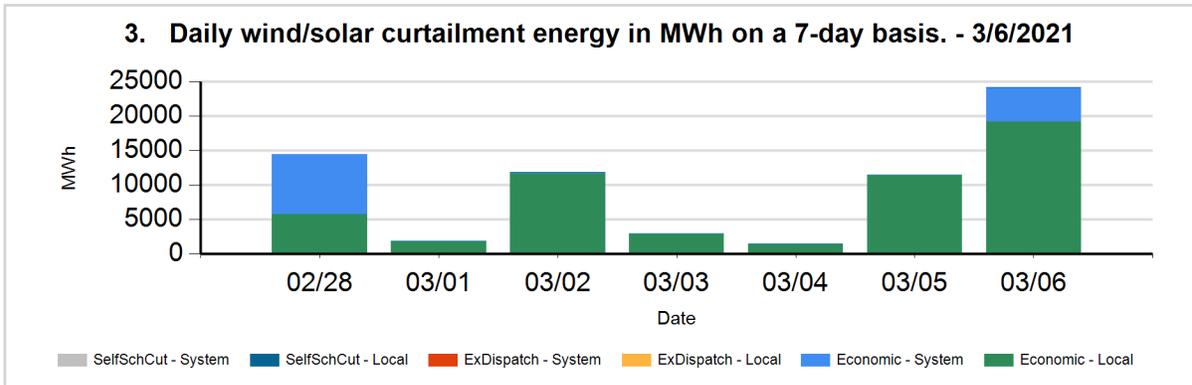
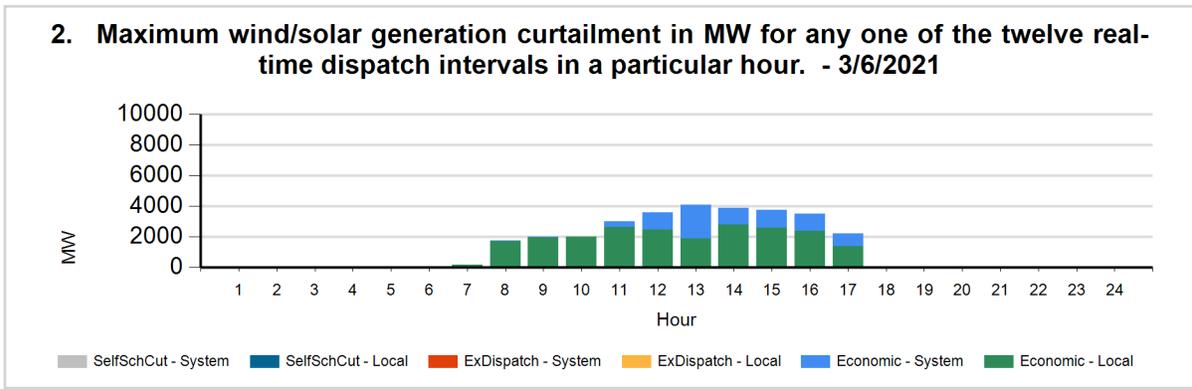
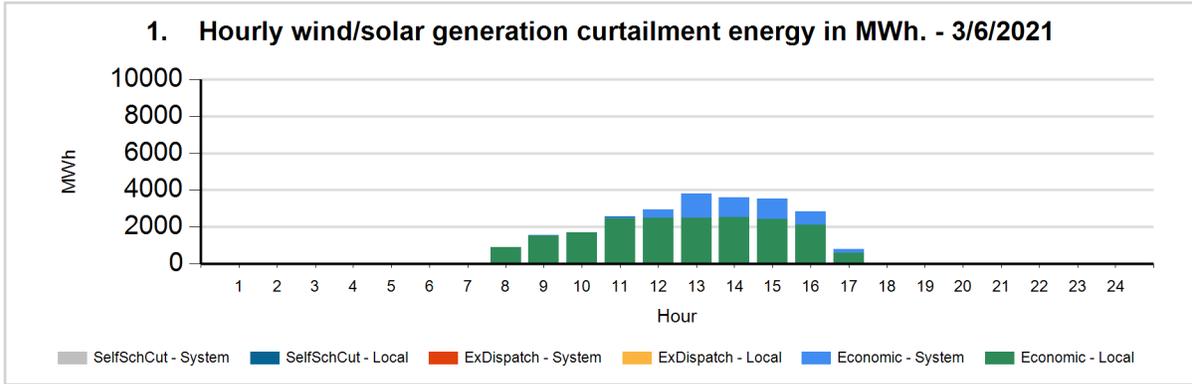
¹Only wind and solar resources can be reported in this manner because these resources have a forecast. Curtailment is defined as the difference between actual production and the forecast when actual production is less than the forecast.

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

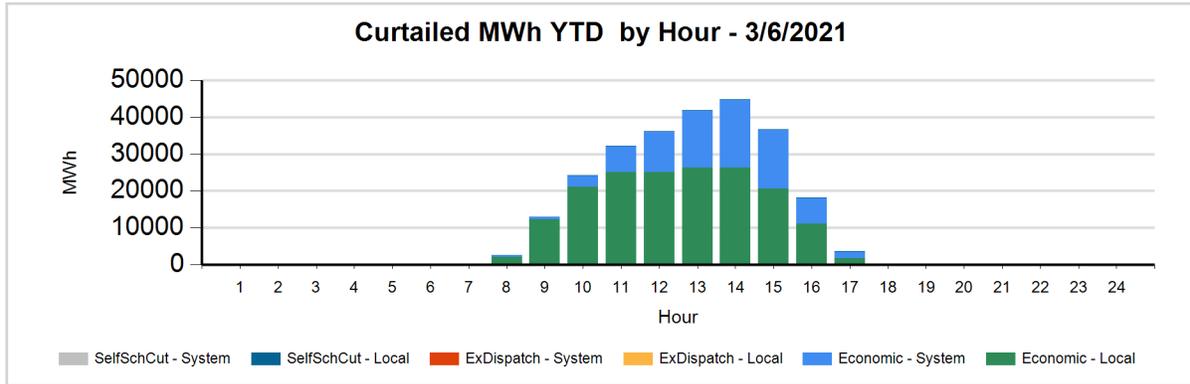
³Congestion occurs when available, least-cost energy cannot be delivered to some loads because transmission facilities do not have sufficient capacity to deliver the energy.

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

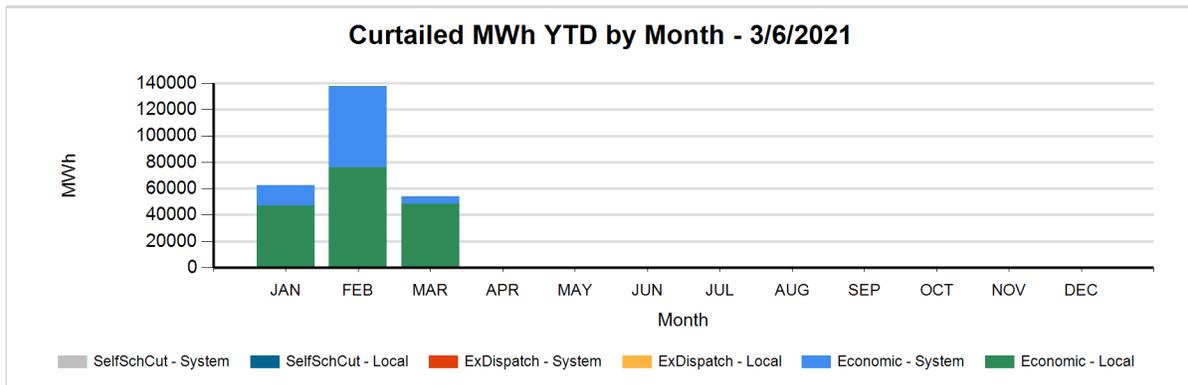
The following charts show the daily and 7-day wind and solar curtailment by category, if any.



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 - 3/6/2021
LocalEconomic	171,592
LocalSelfSchCut	517
SystemEconomic	81,834
TOTAL	253,943

Data used to produce hourly chart

DATE	HOUR	CURT TYPE	REASON	FUEL TYPE	CURTAILED MWH	CURTAILED MW
03/06	7	Economic	Local	SOLR	14	144
03/06	7	Economic	Local	WIND	2	11
03/06	8	Economic	Local	SOLR	861	1710
03/06	8	Economic	Local	WIND	43	25
03/06	8	Economic	System	SOLR	0	5
03/06	9	Economic	Local	SOLR	1475	1951
03/06	9	Economic	Local	WIND	64	48
03/06	9	Economic	System	SOLR	1	1
03/06	10	Economic	Local	SOLR	1614	1957
03/06	10	Economic	Local	WIND	62	58
03/06	10	Economic	System	SOLR	0	
03/06	11	Economic	Local	SOLR	2364	2498
03/06	11	Economic	Local	WIND	89	122
03/06	11	Economic	System	SOLR	104	380
03/06	11	Economic	System	WIND	5	12
03/06	11	SelfSchCut	Local	SOLR	1	
03/06	11	SelfSchCut	Local	WIND	4	
03/06	12	Economic	Local	SOLR	2373	2354
03/06	12	Economic	Local	WIND	111	114
03/06	12	Economic	System	SOLR	457	1127
03/06	12	Economic	System	WIND	5	11
03/06	13	Economic	Local	SOLR	2370	1829
03/06	13	Economic	Local	WIND	103	59
03/06	13	Economic	System	SOLR	1301	2140
03/06	13	Economic	System	WIND	21	40
03/06	14	Economic	Local	SOLR	2418	2711
03/06	14	Economic	Local	WIND	89	88
03/06	14	Economic	System	SOLR	1065	1080
03/06	14	Economic	System	WIND	12	12
03/06	15	Economic	Local	SOLR	2338	2512
03/06	15	Economic	Local	WIND	80	64

03/06	15	Economic	System	SOLR	1071	1149
03/06	15	Economic	System	WIND	47	36
03/06	16	Economic	Local	SOLR	2022	2329
03/06	16	Economic	Local	WIND	99	58
03/06	16	Economic	System	SOLR	667	1016
03/06	16	Economic	System	WIND	37	107
03/06	17	Economic	Local	SOLR	551	1275
03/06	17	Economic	Local	WIND	29	89
03/06	17	Economic	System	SOLR	195	846
03/06	17	Economic	System	WIND	1	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.