

Wind and Solar Curtailment March 26, 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.

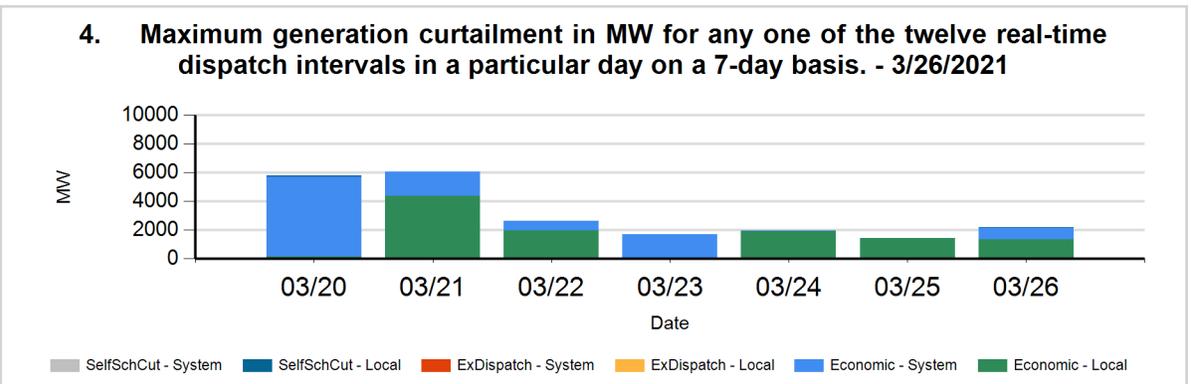
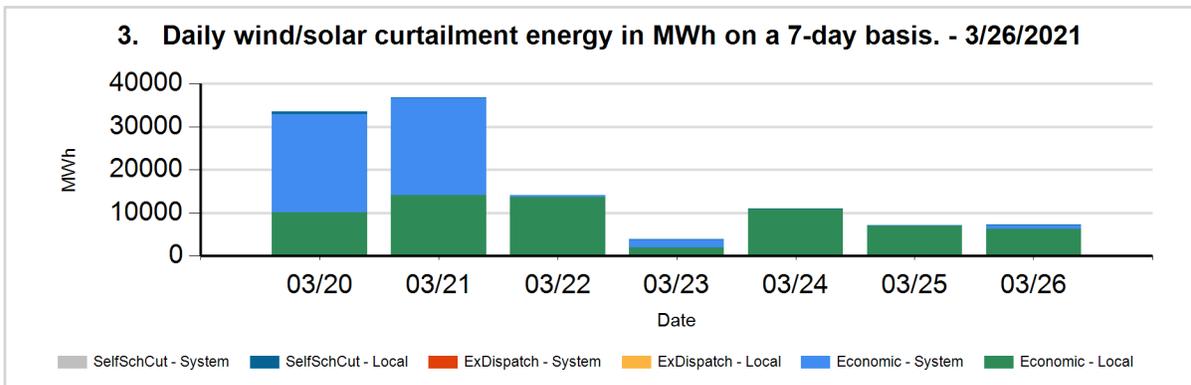
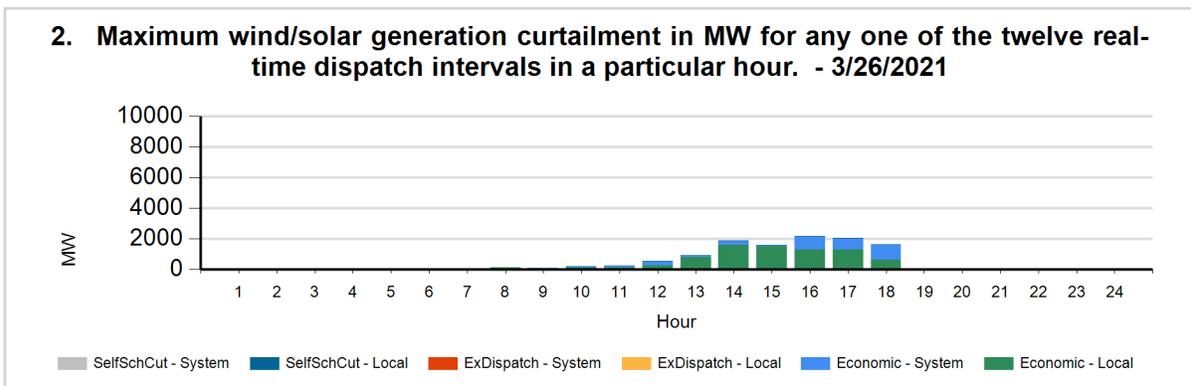
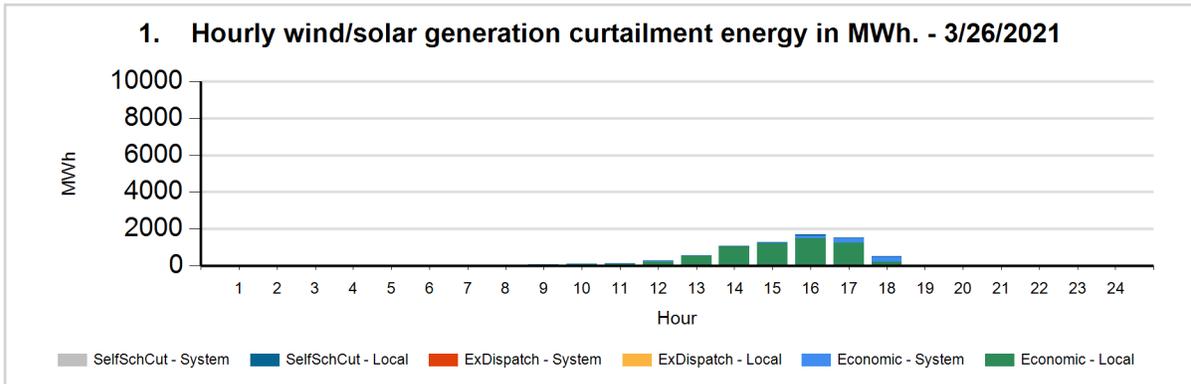
¹Only wind and solar resources can be reported in this manner because these resources have a forecast. Curtailment is defined as the difference between actual production and the forecast when actual production is less than the forecast.

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

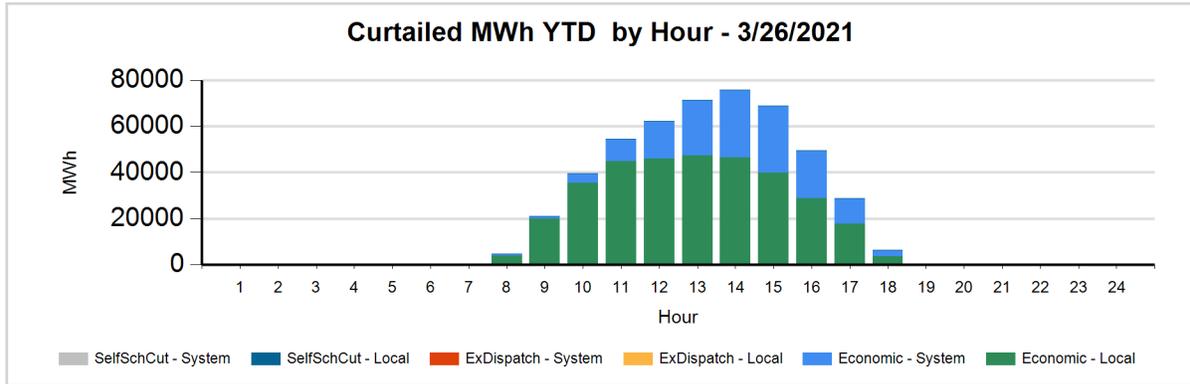
³Congestion occurs when available, least-cost energy cannot be delivered to some loads because transmission facilities do not have sufficient capacity to deliver the energy.

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

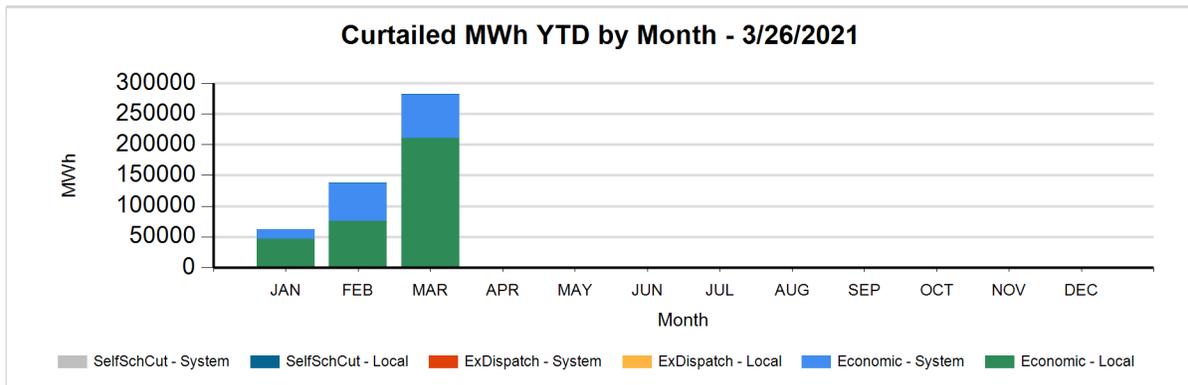
The following charts show the daily and 7-day wind and solar curtailment by category, if any.



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 - 3/26/2021
LocalEconomic	334,062
LocalSelfSchCut	1,617
SystemEconomic	147,224
TOTAL	482,904

Data used to produce hourly chart

DATE	HOUR	CURT TYPE	REASON	FUEL TYPE	CURTAILED MWH	CURTAILED MW
03/26	8	Economic	Local	SOLR	16	84
03/26	8	Economic	Local	WIND	4	16
03/26	8	Economic	System	SOLR	0	
03/26	9	Economic	Local	SOLR	59	84
03/26	9	Economic	System	SOLR	1	
03/26	9	SelfSchCut	Local	SOLR	4	12
03/26	10	Economic	Local	SOLR	103	107
03/26	10	Economic	System	SOLR	9	61
03/26	10	Economic	System	WIND	2	22
03/26	10	SelfSchCut	Local	SOLR	1	
03/26	11	Economic	Local	SOLR	121	123
03/26	11	Economic	System	SOLR	10	113
03/26	11	SelfSchCut	Local	SOLR	0	
03/26	12	Economic	Local	SOLR	213	244
03/26	12	Economic	Local	WIND	2	3
03/26	12	Economic	System	SOLR	29	229
03/26	12	Economic	System	WIND	8	27
03/26	12	SelfSchCut	Local	SOLR	12	46
03/26	13	Economic	Local	SOLR	531	769
03/26	13	Economic	Local	WIND	2	1
03/26	13	Economic	System	SOLR	18	71
03/26	13	Economic	System	WIND	6	19
03/26	13	SelfSchCut	Local	SOLR	11	44
03/26	14	Economic	Local	SOLR	1021	1563
03/26	14	Economic	Local	WIND	7	22
03/26	14	Economic	System	SOLR	42	224
03/26	14	Economic	System	WIND	3	16
03/26	14	SelfSchCut	Local	SOLR	9	36
03/26	15	Economic	Local	SOLR	1154	1482
03/26	15	Economic	Local	WIND	41	4
03/26	15	Economic	System	SOLR	24	31

03/26	15	Economic	System	WIND	35	32
03/26	15	SelfSchCut	Local	SOLR	21	42
03/26	16	Economic	Local	SOLR	1446	1297
03/26	16	Economic	Local	WIND	31	10
03/26	16	Economic	System	SOLR	128	775
03/26	16	Economic	System	WIND	33	58
03/26	16	SelfSchCut	Local	SOLR	41	36
03/26	17	Economic	Local	SOLR	1233	1252
03/26	17	Economic	Local	WIND	13	18
03/26	17	Economic	System	SOLR	196	677
03/26	17	Economic	System	WIND	54	37
03/26	17	SelfSchCut	Local	SOLR	34	38
03/26	18	Economic	Local	SOLR	195	593
03/26	18	Economic	Local	WIND	4	11
03/26	18	Economic	System	SOLR	276	945
03/26	18	Economic	System	WIND	18	54
03/26	18	SelfSchCut	Local	SOLR	10	33
03/26	19	Economic	Local	SOLR	1	10

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.