

Wind and Solar Curtailment March 16, 2020

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 oversupply.
- 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.

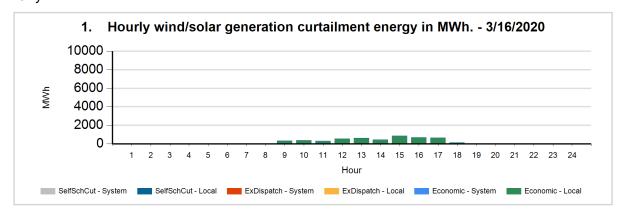
²The Renewables Watch report provides daily actual renewable production within the ISO grid. It is available at: http://www.caiso.com/green/renewableswatch.html.

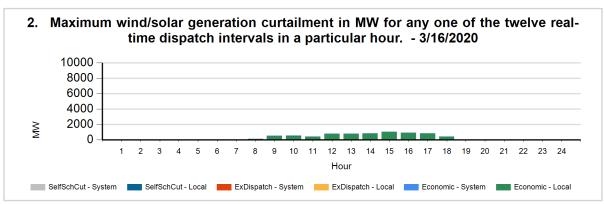
³Congestion occurs when available, least-cost energy cannot be delivered to some loads because transmission facilities do not have sufficient capacity to deliver the energy.

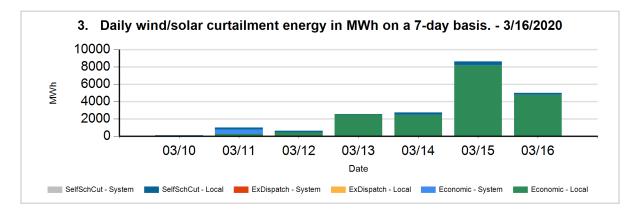
For more information on oversupply conditions, please see: https://www.caiso.com/Documents/FlexibleResourcesHelpRenewables_FastFacts.pdf

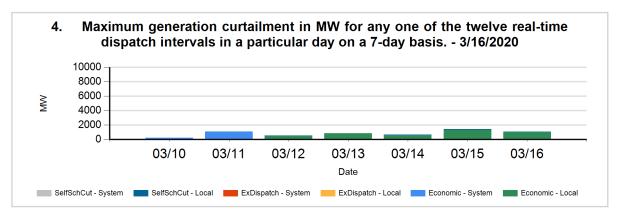


The following charts show the daily and 7-day wind and solar curtailment by category, if any.



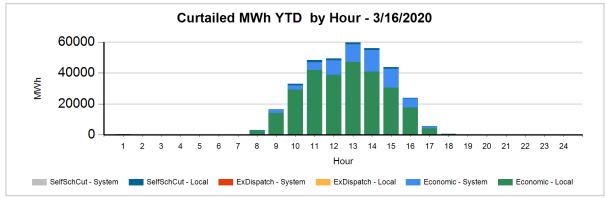




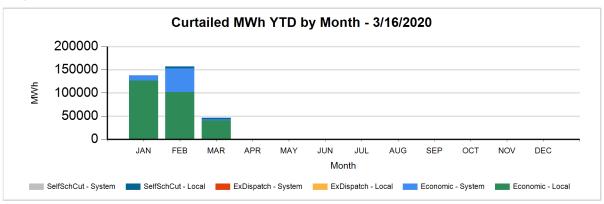




The following charts show hourly year to date wind and solar curtailment by category, if any.



The following charts show monthly year to date wind and solar curtailment by category, if any.



TYPE	YTD CURTAILED MWH - 3/16/2020
LocalEconomic	268,908
LocalSelfSchCut	8,097
SystemEconomic	64,286
TOTAL	341,292



Data used to produce hourly chart

DATE	HOU R	CURT TYPE	REASON	FUEL TYPE	CURTAILED MWH	CURTAILED MW
03/16	8	Economic	Local	SOLR	29	128
03/16	8	Economic	System	SOLR	1	
03/16	9	Economic	Local	SOLR	241	407
03/16	9	Economic	Local	WIND	69	127
03/16	9	Economic	System	SOLR	15	3
03/16	10	Economic	Local	SOLR	249	365
03/16	10	Economic	Local	WIND	87	102
03/16	10	Economic	System	SOLR	0	
03/16	10	SelfSchCut	Local	SOLR	30	55
03/16	11	Economic	Local	SOLR	189	294
03/16	11	Economic	Local	WIND	82	82
03/16	11	Economic	System	SOLR	4	
03/16	11	SelfSchCut	Local	SOLR	19	35
03/16	12	Economic	Local	SOLR	446	642
03/16	12	Economic	Local	WIND	91	106
03/16	12	SelfSchCut	Local	SOLR	30	25
03/16	13	Economic	Local	SOLR	515	645
03/16	13	Economic	Local	WIND	101	105
03/16	13	SelfSchCut	Local	SOLR	19	22
03/16	14	Economic	Local	SOLR	343	682
03/16	14	Economic	Local	WIND	59	112
03/16	14	SelfSchCut	Local	SOLR	29	53
03/16	15	Economic	Local	SOLR	740	882
03/16	15	Economic	Local	WIND	89	112
03/16	15	SelfSchCut	Local	SOLR	44	59
03/16	16	Economic	Local	SOLR	555	741
03/16	16	Economic	Local	WIND	126	142
03/16	16	SelfSchCut	Local	SOLR	20	18
03/16	17	Economic	Local	SOLR	507	658
03/16	17	Economic	Local	WIND	127	145
03/16	17	SelfSchCut	Local	SOLR	14	22



03/16	18	Economic	Local	SOLR	98	251
03/16	18	Economic	Local	WIND	42	131
03/16	18	SelfSchCut	Local	SOLR	3	10
03/16	24	Economic	Local	WIND	1	6

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.