

Wind and Solar Curtailment March 23, 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 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.

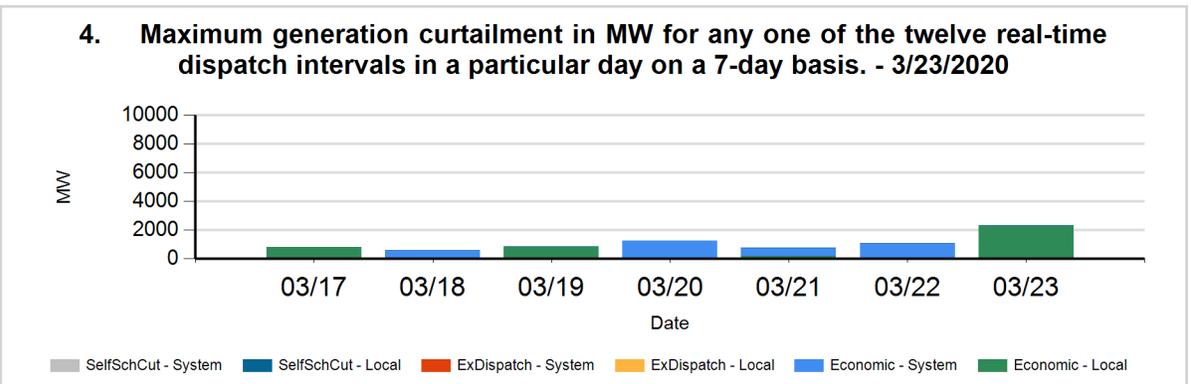
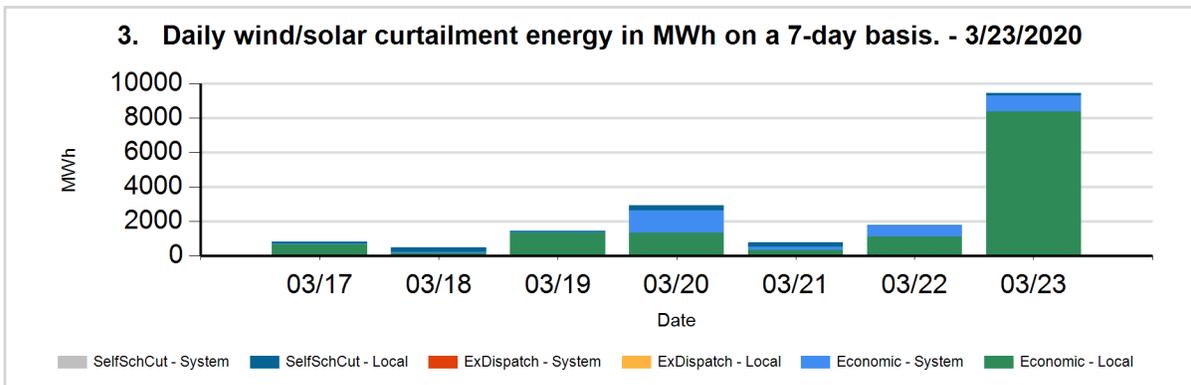
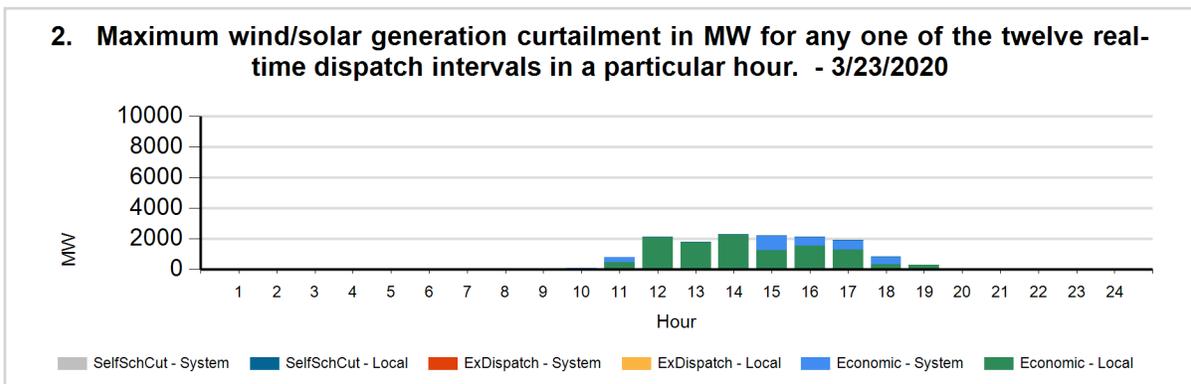
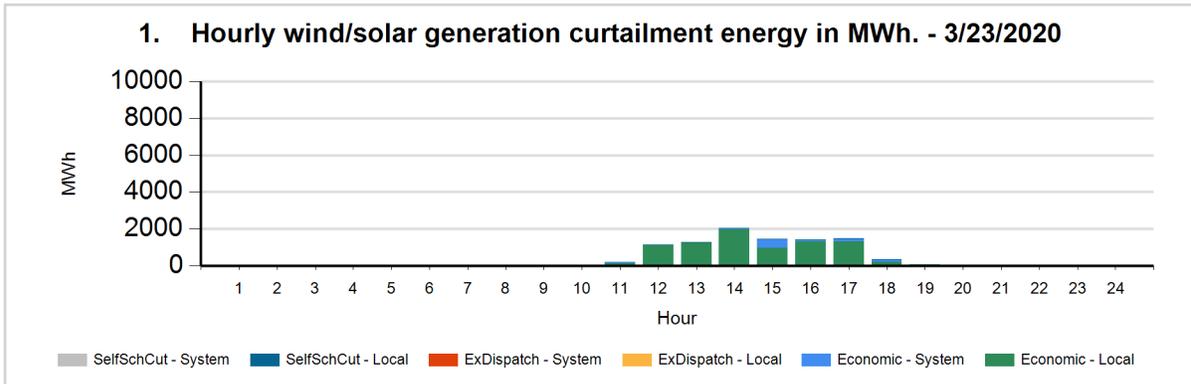
¹Only wind and solar resources can be reported in this manner because these resources have a forecast. Curtailment is defined as the difference between actual production and the forecast when actual production is less than the forecast.

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

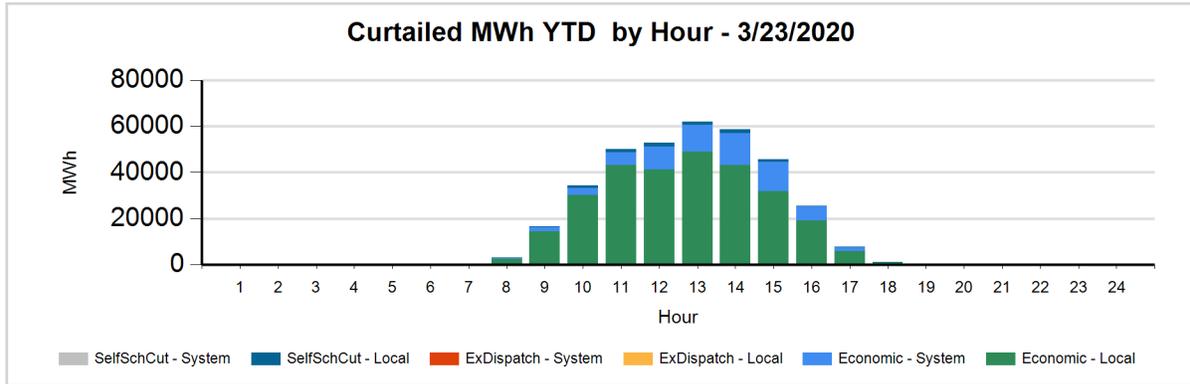
³Congestion occurs when available, least-cost energy cannot be delivered to some loads because transmission facilities do not have sufficient capacity to deliver the energy.

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

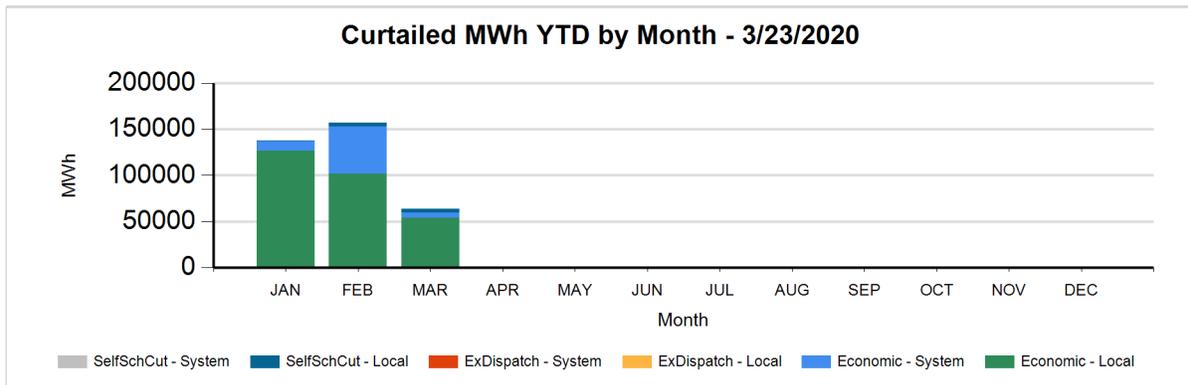
The following charts show the daily and 7-day wind and solar curtailment by category, if any.



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 - 3/23/2020
LocalEconomic	282,307
LocalSelfSchCut	9,198
SystemEconomic	67,415
TOTAL	358,921

Data used to produce hourly chart

DATE	HOUR	CURT TYPE	REASON	FUEL TYPE	CURTAILED MWH	CURTAILED MW
03/23	9	Economic	System	SOLR	0	1
03/23	10	Economic	System	SOLR	6	74
03/23	10	Economic	System	WIND	2	22
03/23	11	Economic	Local	SOLR	128	438
03/23	11	Economic	Local	WIND	9	21
03/23	11	Economic	System	SOLR	46	294
03/23	11	Economic	System	WIND	6	30
03/23	12	Economic	Local	SOLR	1049	1894
03/23	12	Economic	Local	WIND	75	188
03/23	12	Economic	System	SOLR	0	
03/23	12	Economic	System	WIND	0	
03/23	12	SelfSchCut	Local	SOLR	18	33
03/23	13	Economic	Local	SOLR	1036	1553
03/23	13	Economic	Local	WIND	215	190
03/23	13	SelfSchCut	Local	SOLR	42	46
03/23	14	Economic	Local	SOLR	1633	1888
03/23	14	Economic	Local	WIND	353	358
03/23	14	Economic	System	SOLR	8	
03/23	14	SelfSchCut	Local	SOLR	53	50
03/23	15	Economic	Local	SOLR	894	1171
03/23	15	Economic	Local	WIND	59	58
03/23	15	Economic	System	SOLR	463	886
03/23	15	Economic	System	WIND	32	81
03/23	15	SelfSchCut	Local	SOLR	18	12
03/23	16	Economic	Local	SOLR	1270	1507
03/23	16	Economic	Local	WIND	54	28
03/23	16	Economic	System	SOLR	74	504
03/23	16	Economic	System	WIND	12	82
03/23	16	SelfSchCut	Local	SOLR	11	20
03/23	17	Economic	Local	SOLR	1137	1113
03/23	17	Economic	Local	WIND	162	182

03/23	17	Economic	System	SOLR	142	559
03/23	17	Economic	System	WIND	25	59
03/23	17	SelfSchCut	Local	SOLR	5	9
03/23	18	Economic	Local	SOLR	168	324
03/23	18	Economic	Local	WIND	52	
03/23	18	Economic	System	SOLR	115	428
03/23	18	Economic	System	WIND	14	57
03/23	18	SelfSchCut	Local	SOLR	1	3
03/23	19	Economic	Local	SOLR	31	133
03/23	19	Economic	Local	WIND	30	147
03/23	20	Economic	Local	WIND	1	8

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.