

Wind and Solar Curtailment April 06, 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.

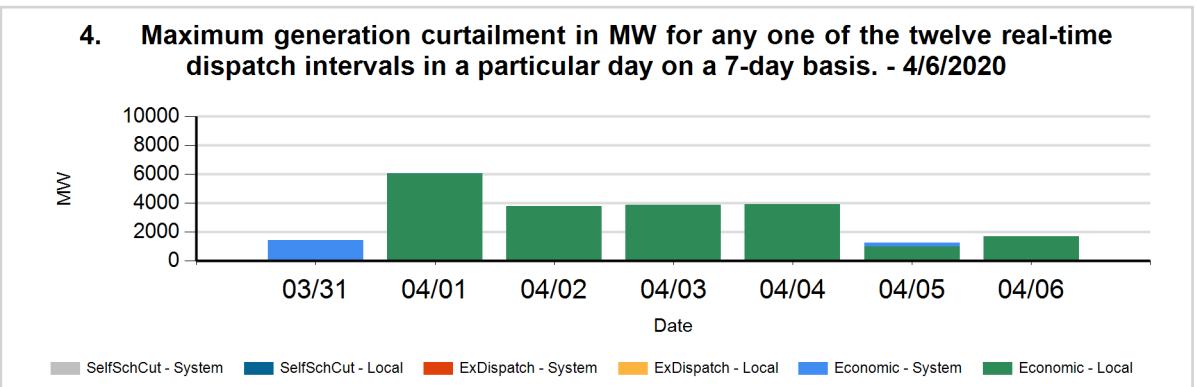
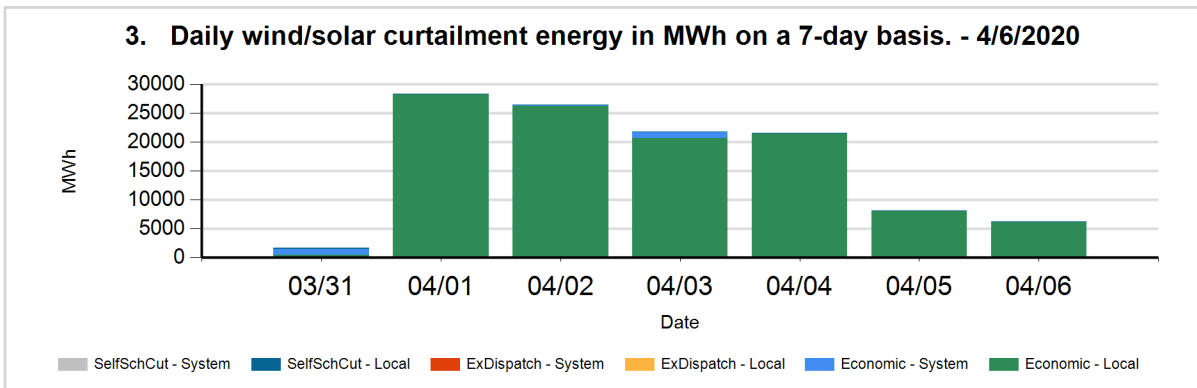
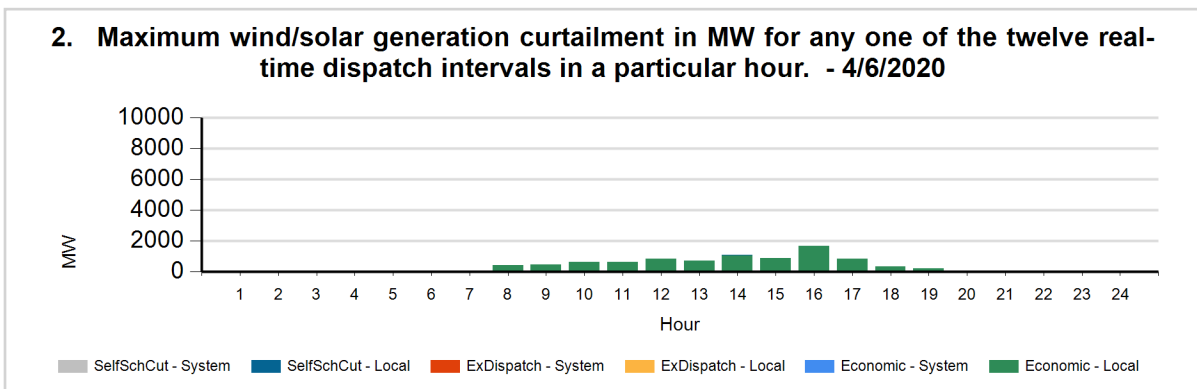
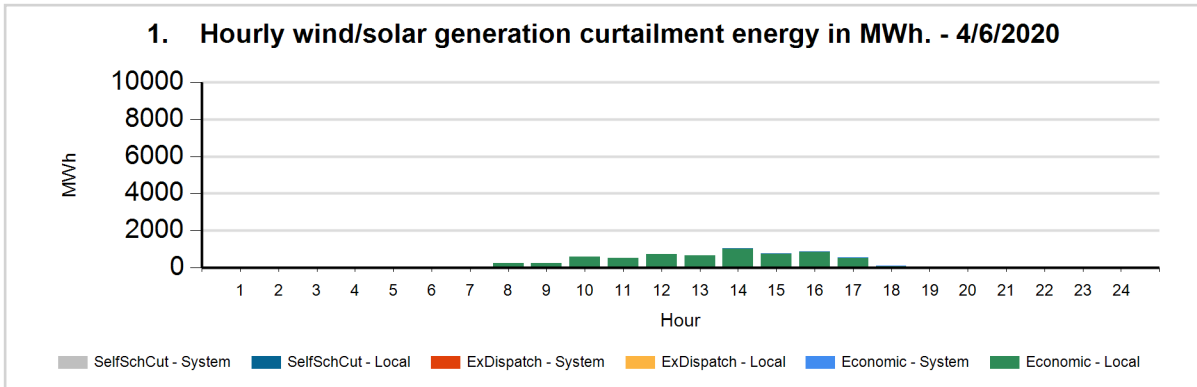
²The Renewables Watch report provides daily actual renewable production within the ISO grid. It is available at: <http://www.caiso.com/green/renewableswatch.html>.

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.

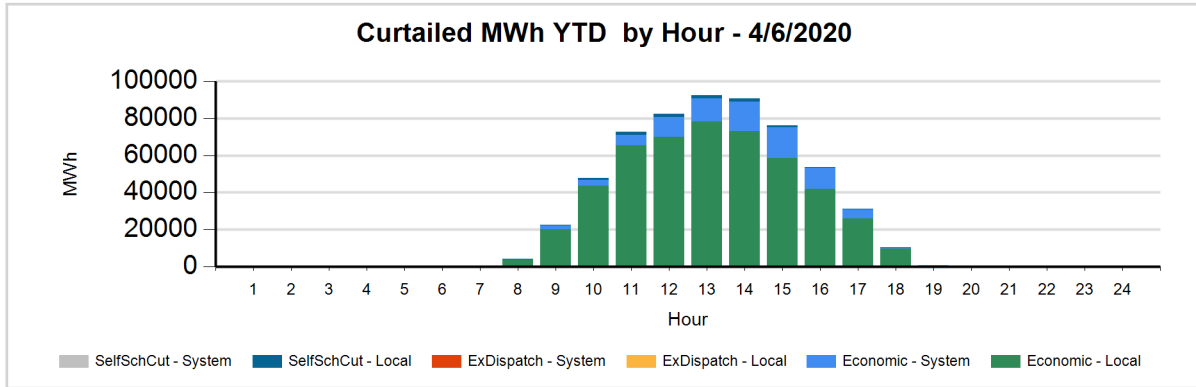
⁴For more information on oversupply conditions, please see:

https://www.caiso.com/Documents/FlexibleResourcesHelpRenewables_FastFacts.pdf

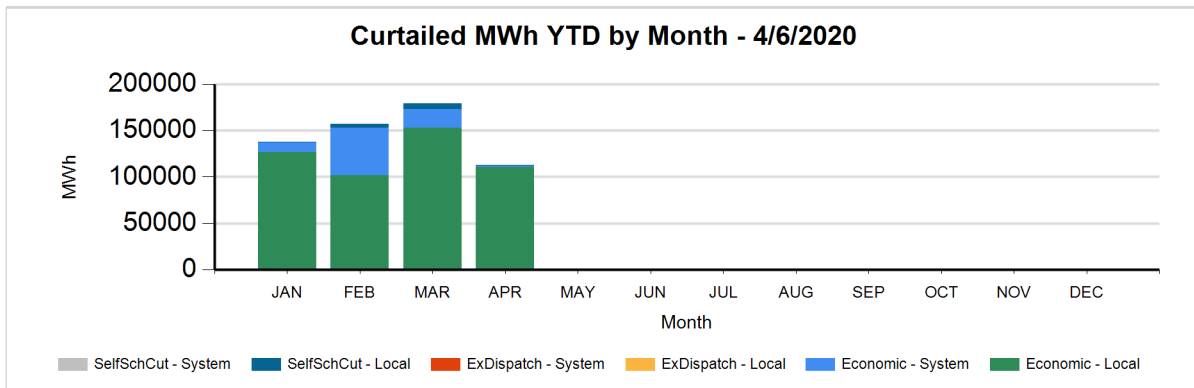
The following charts show the daily and 7-day wind and solar curtailment by category, if any.



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 - 4/6/2020
LocalEconomic	491,816
LocalSelfSchCut	10,938
SystemEconomic	83,869
TOTAL	586,623

Data used to produce hourly chart

DATE	HOUR	CURT TYPE	REASON	FUEL TYPE	CURTAILED MWH	CURTAILED MW
04/06	8	Economic	Local	SOLR	235	417
04/06	8	Economic	Local	WIND	5	5
04/06	9	Economic	Local	SOLR	234	465
04/06	9	Economic	Local	WIND	1	
04/06	9	Economic	System	SOLR	0	
04/06	10	Economic	Local	SOLR	547	601
04/06	10	Economic	Local	WIND	23	24
04/06	11	Economic	Local	SOLR	479	599
04/06	11	Economic	Local	WIND	20	20
04/06	12	Economic	Local	SOLR	692	812
04/06	12	Economic	Local	WIND	20	19
04/06	13	Economic	Local	SOLR	638	698
04/06	13	Economic	Local	WIND	21	19
04/06	14	Economic	Local	SOLR	984	1061
04/06	14	Economic	Local	WIND	29	24
04/06	14	Economic	System	SOLR	7	
04/06	14	SelfSchCut	Local	SOLR	1	2
04/06	15	Economic	Local	SOLR	693	810
04/06	15	Economic	Local	WIND	41	41
04/06	15	Economic	System	SOLR	10	
04/06	15	SelfSchCut	Local	SOLR	1	
04/06	16	Economic	Local	SOLR	747	1345
04/06	16	Economic	Local	WIND	122	317
04/06	16	SelfSchCut	Local	SOLR	3	
04/06	17	Economic	Local	SOLR	497	802
04/06	17	Economic	Local	WIND	23	11
04/06	17	Economic	System	SOLR	22	
04/06	18	Economic	Local	SOLR	104	290
04/06	18	Economic	Local	WIND	10	30
04/06	18	Economic	System	SOLR	3	
04/06	19	Economic	Local	SOLR	39	164



04/06	19	Economic	Local	WIND	8	22
04/06	23	Economic	Local	WIND	0	1
04/06	24	Economic	Local	WIND	13	16

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.