Wind and Solar Curtailment April 30, 2022

This report is produced daily to provide a detailed accounting of the wind and solar renewable generation that was curtailed and the reasons why[1]. This report should be read in the context of the Renewables Watch report for a more complete understanding of both renewable curtailment and generation[2].

Wind and solar curtailments are grouped into the following categories:

1. Economic - Local: Market dispatch of generators with economic bids to mitigate local congestion[3].
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.

[1]Only 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.

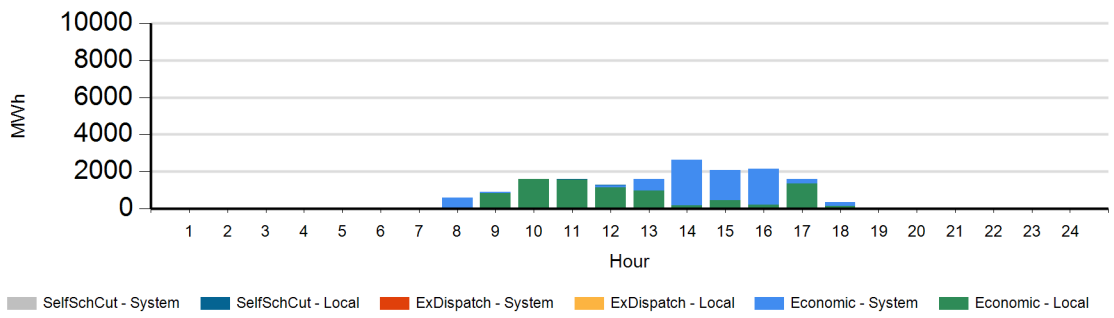
[2]The Renewables Watch report provides daily actual renewable production within the ISO grid. It is available at: http://www.caiso.com/green/renewableswatch.html.

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

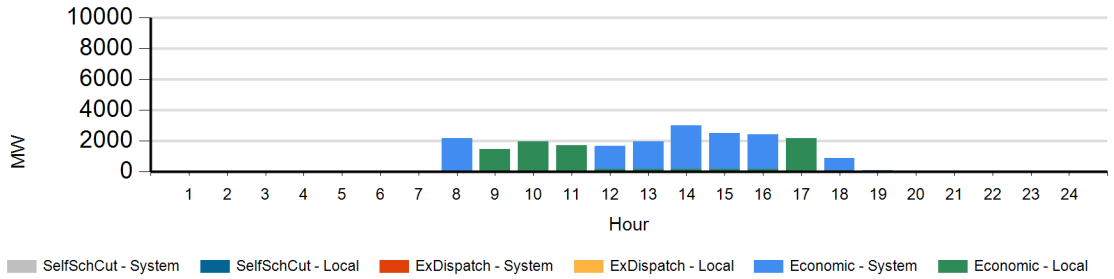
[]For more information on oversupply conditions, please see:
https://www.caiso.com/Documents/FlexibleResourcesHelpRenewables_FastFacts.pdf

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

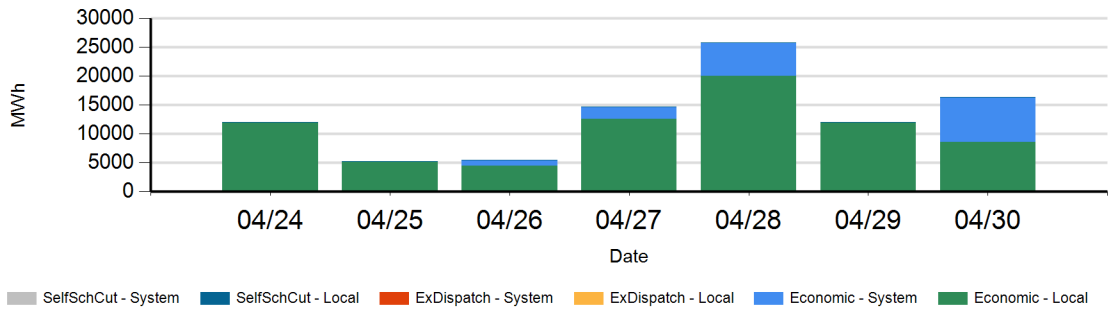
1. Hourly wind/solar generation curtailment energy in MWh. - 4/30/2022



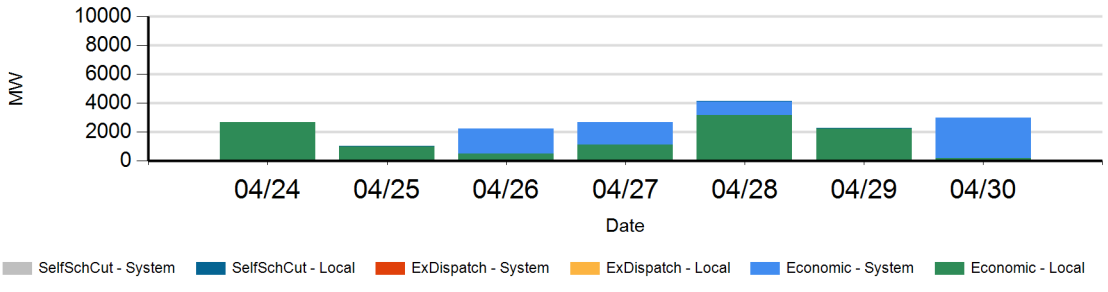
2. Maximum wind/solar generation curtailment in MW for any one of the twelve real-time dispatch intervals in a particular hour. - 4/30/2022



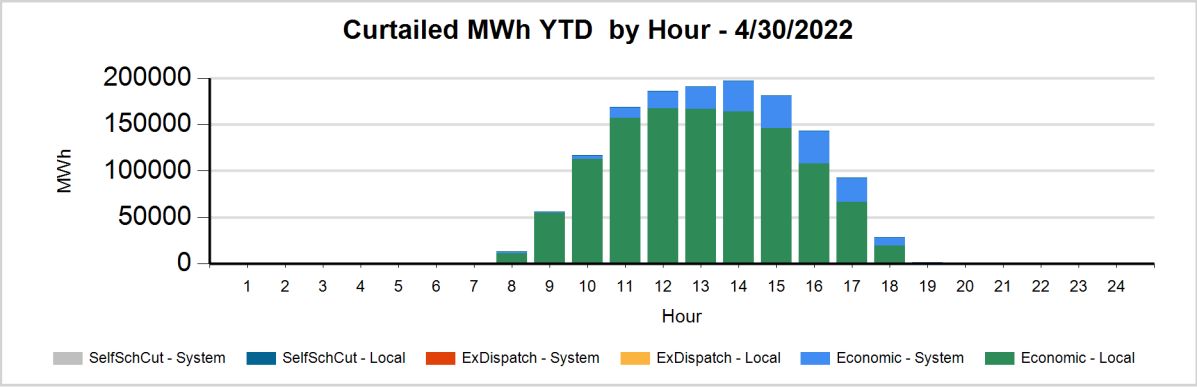
3. Daily wind/solar curtailment energy in MWh on a 7-day basis. - 4/30/2022



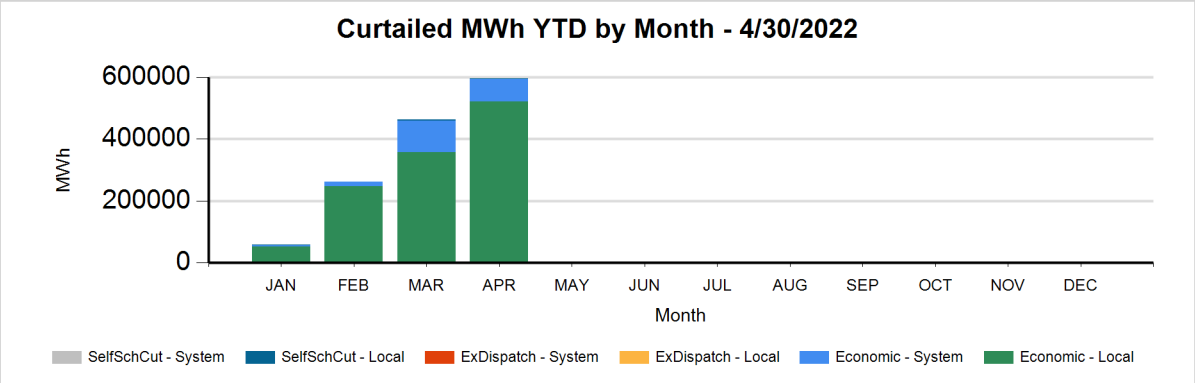
4. Maximum generation curtailment in MW for any one of the twelve real-time dispatch intervals in a particular day on a 7-day basis. - 4/30/2022



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 - 4/30/2022
LocalEconomic	1,175,339
LocalSelfSchCut	4,352
SystemEconomic	199,342
TOTAL	1,379,033

California ISO

Data used to produce hourly chart

DATE	HOUR	CURT TYPE	REASON	FUEL TYPE	CURTAILED MWH	CURTAILED MW
04/30	3	Economic	Local	WIND	0	1
04/30	5	Economic	Local	WIND	0	1
04/30	6	Economic	Local	WIND	1	3
04/30	7	Economic	Local	WIND	1	2
04/30	7	Economic	System	SOLR	2	21
04/30	8	Economic	Local	SOLR	24	51
04/30	8	Economic	Local	WIND	1	
04/30	8	Economic	System	SOLR	526	2058
04/30	8	Economic	System	WIND	22	57
04/30	9	Economic	Local	SOLR	841	1450
04/30	9	Economic	System	SOLR	51	
04/30	9	Economic	System	WIND	9	
04/30	10	Economic	Local	SOLR	1600	1962
04/30	10	Economic	Local	WIND	3	1
04/30	10	SelfSchCut	Local	SOLR	0	
04/30	11	Economic	Local	SOLR	1602	1682
04/30	11	Economic	Local	WIND	0	5
04/30	11	SelfSchCut	Local	SOLR	2	
04/30	12	Economic	Local	SOLR	1150	144
04/30	12	Economic	Local	WIND	0	
04/30	12	Economic	System	SOLR	123	1481
04/30	12	Economic	System	WIND	7	36
04/30	12	SelfSchCut	Local	SOLR	3	
04/30	13	Economic	Local	SOLR	962	160
04/30	13	Economic	Local	WIND	12	
04/30	13	Economic	System	SOLR	609	1766
04/30	13	Economic	System	WIND	18	41
04/30	14	Economic	Local	SOLR	156	158
04/30	14	Economic	System	SOLR	2414	2781
04/30	14	Economic	System	WIND	45	45
04/30	15	Economic	Local	SOLR	448	148

04/30	15	Economic	Local	WIND	6	3
04/30	15	Economic	System	SOLR	1552	2291
04/30	15	Economic	System	WIND	50	47
04/30	15	SelfSchCut	Local	SOLR	0	
04/30	16	Economic	Local	SOLR	197	145
04/30	16	Economic	Local	WIND	6	6
04/30	16	Economic	System	SOLR	1895	2197
04/30	16	Economic	System	WIND	52	55
04/30	17	Economic	Local	SOLR	1340	2156
04/30	17	Economic	Local	WIND	22	8
04/30	17	Economic	System	SOLR	197	
04/30	17	Economic	System	WIND	23	
04/30	17	SelfSchCut	Local	SOLR	0	
04/30	18	Economic	Local	SOLR	139	85
04/30	18	Economic	Local	WIND	3	
04/30	18	Economic	System	SOLR	174	695
04/30	18	Economic	System	WIND	32	87
04/30	19	Economic	Local	SOLR	8	24
04/30	19	Economic	Local	WIND	4	6
04/30	19	Economic	System	SOLR	6	40
04/30	19	SelfSchCut	Local	SOLR	2	9

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.