Wind and Solar Curtailment March 09, 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.

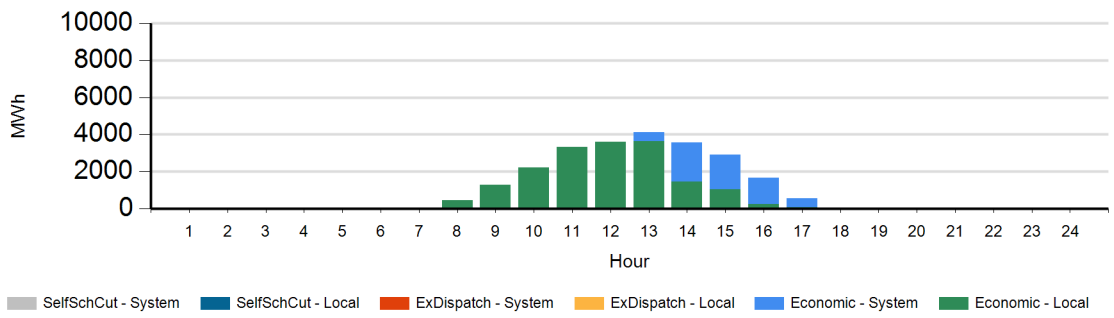
[2]The Renewables Watch report provides daily actual renewable production within the ISO grid. It is available at: http://www.caiso.com/green/renewableswatch.html.

[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.

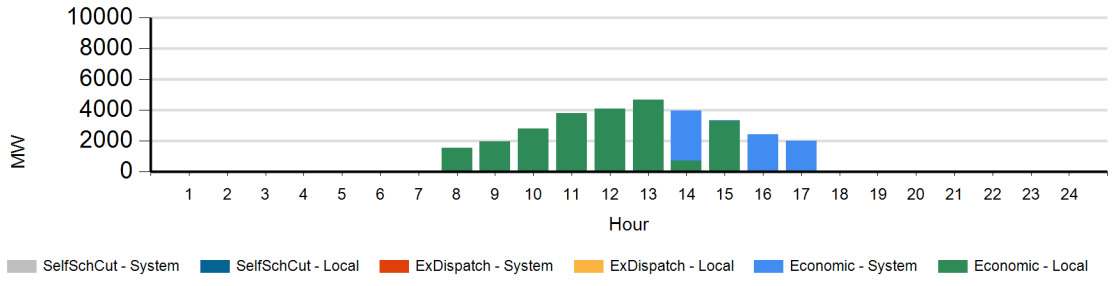
For more information on oversupply conditions, please see: https://www.caiso.com/Documents/FlexibleResourcesHelpRenewables_FastFacts.pdf

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

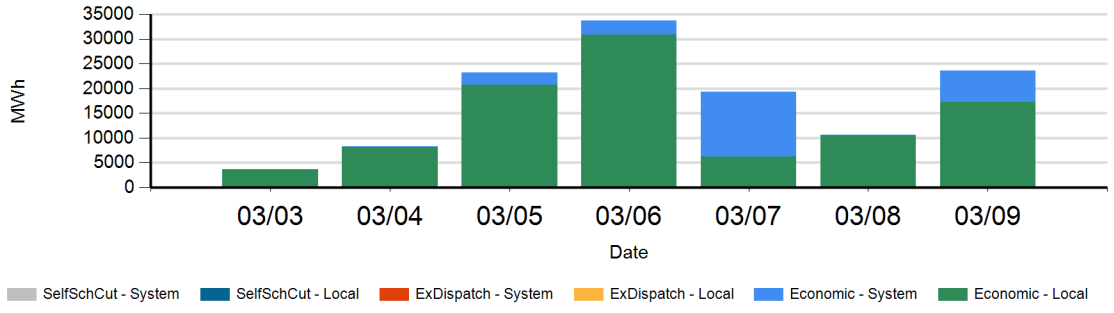
1. Hourly wind/solar generation curtailment energy in MWh. - 3/9/2022



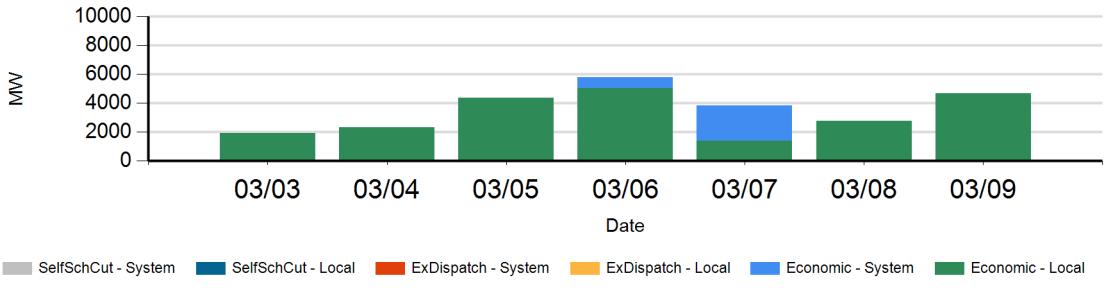
2. Maximum wind/solar generation curtailment in MW for any one of the twelve real-time dispatch intervals in a particular hour. - 3/9/2022



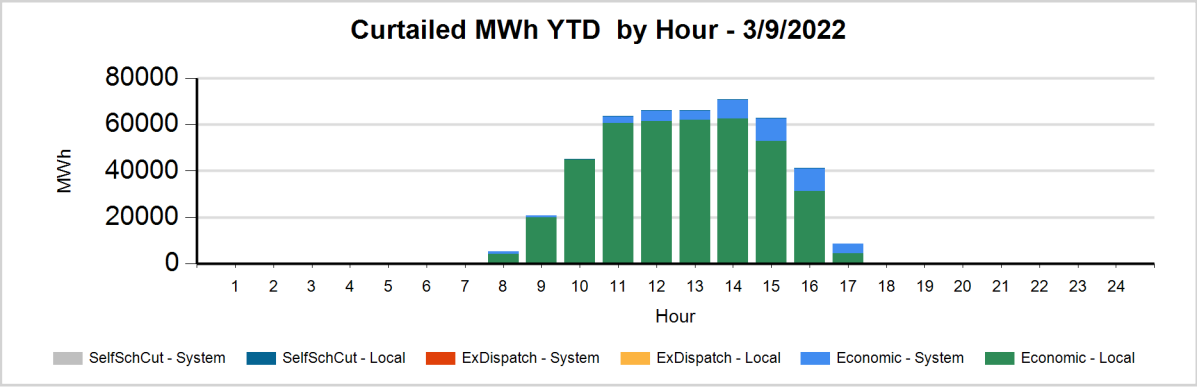
3. Daily wind/solar curtailment energy in MWh on a 7-day basis. - 3/9/2022



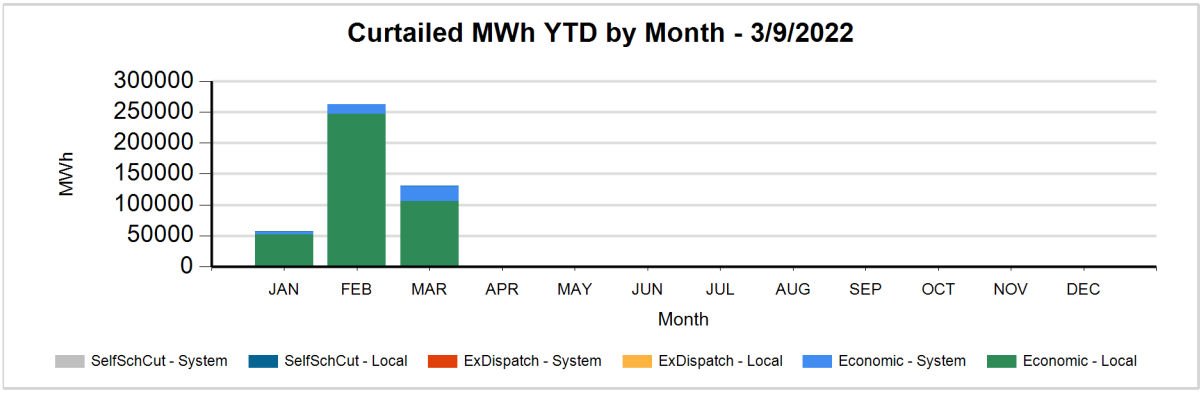
4. Maximum generation curtailment in MW for any one of the twelve real-time dispatch intervals in a particular day on a 7-day basis. - 3/9/2022



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 - 3/9/2022
LocalEconomic	404,040
LocalSelfSchCut	65
SystemEconomic	46,105
TOTAL	450,209

California ISO

Data used to produce hourly chart

DATE	HOUR	CURT TYPE	REASON	FUEL TYPE	CURTAILED MWH	CURTAILED MW
03/09	7	Economic	Local	SOLR	2	20
03/09	8	Economic	Local	SOLR	429	1522
03/09	8	Economic	Local	WIND	1	
03/09	9	Economic	Local	SOLR	1287	1954
03/09	9	Economic	Local	WIND	2	7
03/09	10	Economic	Local	SOLR	2202	2783
03/09	10	Economic	Local	WIND	5	3
03/09	11	Economic	Local	SOLR	3314	3776
03/09	11	Economic	Local	WIND	4	4
03/09	12	Economic	Local	SOLR	3587	4095
03/09	12	Economic	Local	WIND	5	6
03/09	13	Economic	Local	SOLR	3575	4645
03/09	13	Economic	Local	WIND	66	7
03/09	13	Economic	System	SOLR	433	
03/09	13	Economic	System	WIND	46	
03/09	14	Economic	Local	SOLR	1454	700
03/09	14	Economic	Local	WIND	4	3
03/09	14	Economic	System	SOLR	1976	3042
03/09	14	Economic	System	WIND	125	219
03/09	15	Economic	Local	SOLR	1028	3304
03/09	15	Economic	Local	WIND	3	9
03/09	15	Economic	System	SOLR	1836	
03/09	15	Economic	System	WIND	37	16
03/09	16	Economic	Local	SOLR	238	3
03/09	16	Economic	Local	WIND	4	
03/09	16	Economic	System	SOLR	1383	2383
03/09	16	Economic	System	WIND	40	43
03/09	17	Economic	Local	SOLR	74	
03/09	17	Economic	System	SOLR	452	1971
03/09	17	Economic	System	WIND	13	46

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.