Wind and Solar Curtailment March 01, 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.

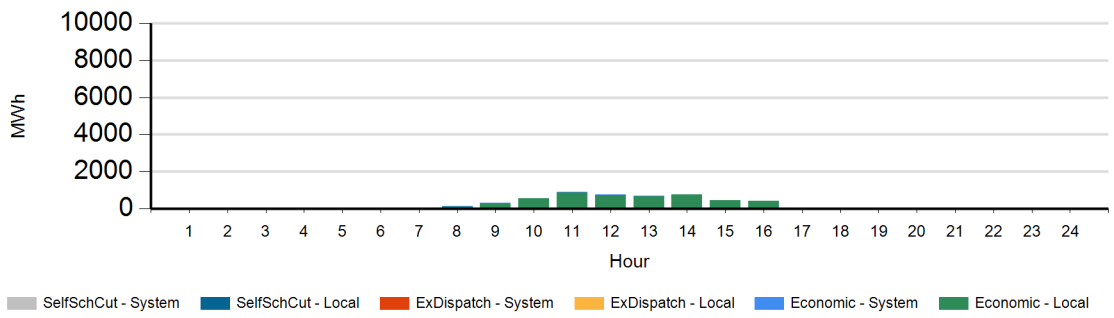
[2]The Renewables Watch report provides daily actual renewable production within the ISO grid. It is available at: http://www.caiso.com/green/renewableswatch.html.

[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.

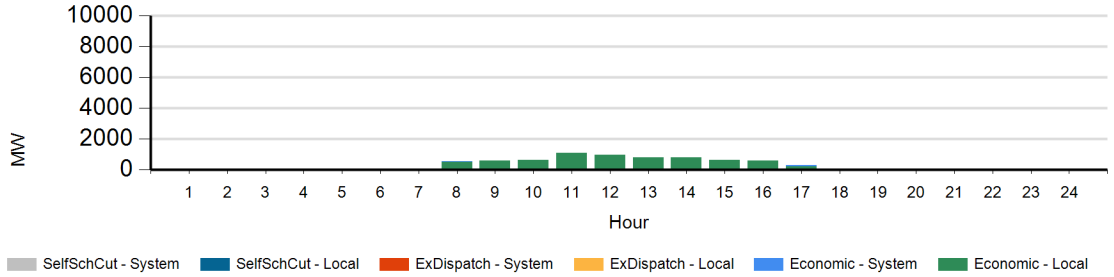
For more information on oversupply conditions, please see: https://www.caiso.com/Documents/FlexibleResourcesHelpRenewables_FastFacts.pdf

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

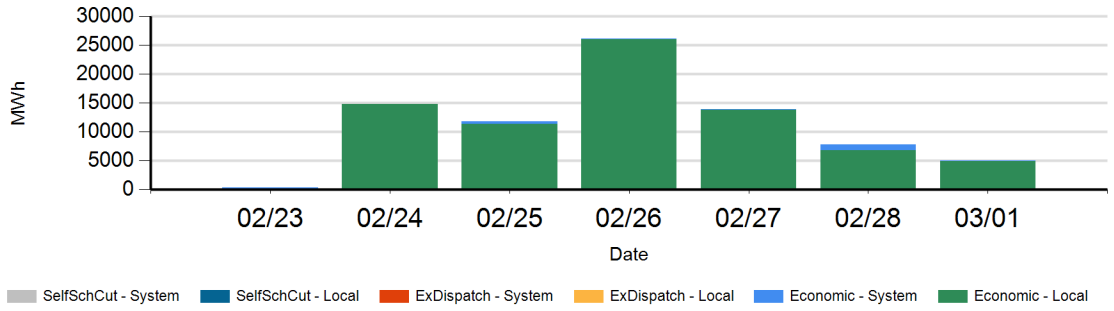
1. Hourly wind/solar generation curtailment energy in MWh. - 3/1/2022



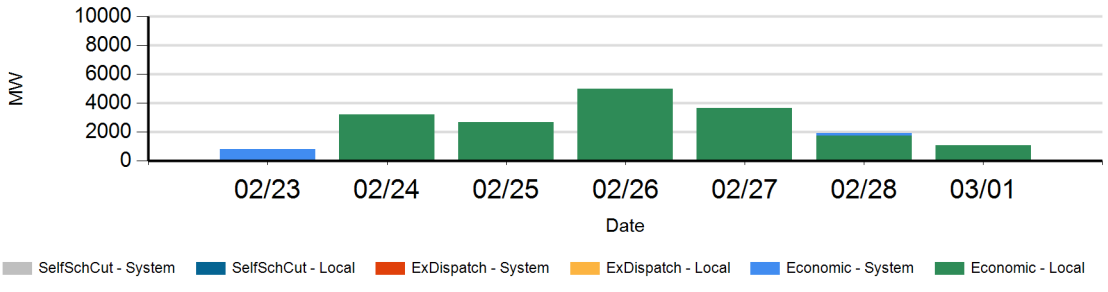
2. Maximum wind/solar generation curtailment in MW for any one of the twelve real-time dispatch intervals in a particular hour. - 3/1/2022



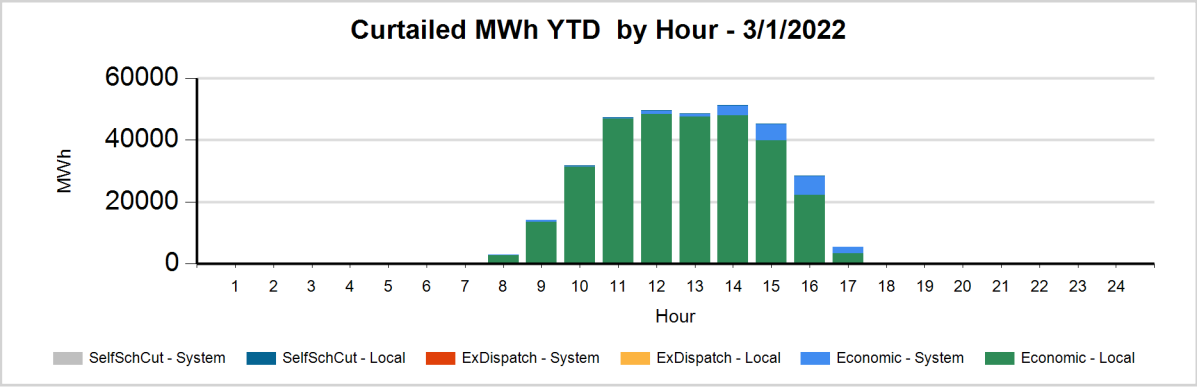
3. Daily wind/solar curtailment energy in MWh on a 7-day basis. - 3/1/2022



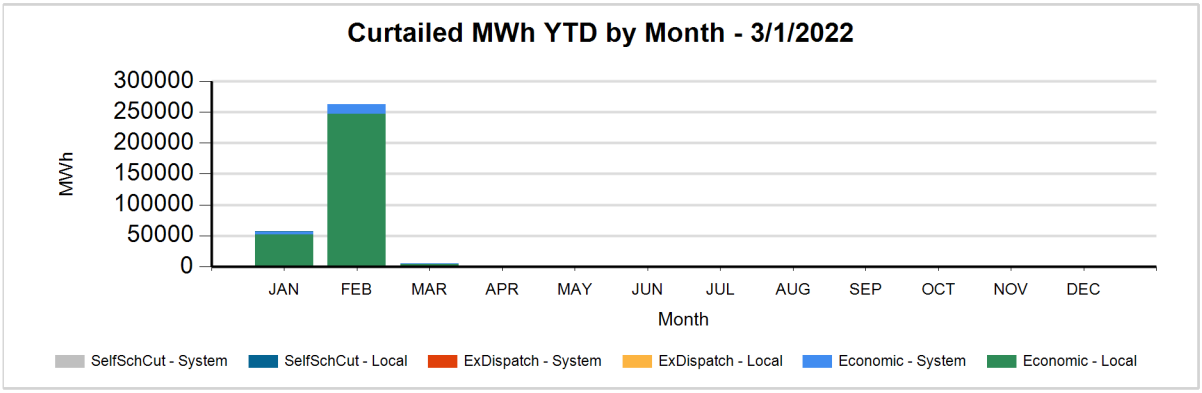
4. Maximum generation curtailment in MW for any one of the twelve real-time dispatch intervals in a particular day on a 7-day basis. - 3/1/2022



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 - 3/1/2022
LocalEconomic	303,313
LocalSelfSchCut	64
SystemEconomic	21,166
TOTAL	324,542

California ISO

Data used to produce hourly chart

DATE	HOUR	CURT TYPE	REASON	FUEL TYPE	CURTAILED MWH	CURTAILED MW
03/01	7	Economic	System	SOLR	4	47
03/01	8	Economic	Local	SOLR	135	554
03/01	8	Economic	Local	WIND	0	
03/01	8	Economic	System	SOLR	3	1
03/01	9	Economic	Local	SOLR	298	569
03/01	9	Economic	Local	WIND	0	2
03/01	9	Economic	System	SOLR	1	
03/01	10	Economic	Local	SOLR	515	598
03/01	10	Economic	Local	WIND	46	42
03/01	11	Economic	Local	SOLR	814	972
03/01	11	Economic	Local	WIND	73	89
03/01	11	Economic	System	SOLR	15	
03/01	12	Economic	Local	SOLR	723	900
03/01	12	Economic	Local	WIND	39	60
03/01	12	Economic	System	SOLR	6	
03/01	13	Economic	Local	SOLR	658	739
03/01	13	Economic	Local	WIND	22	35
03/01	13	Economic	System	SOLR	4	
03/01	14	Economic	Local	SOLR	732	785
03/01	14	Economic	Local	WIND	13	9
03/01	15	Economic	Local	SOLR	436	621
03/01	15	Economic	Local	WIND	11	20
03/01	16	Economic	Local	SOLR	399	568
03/01	16	Economic	Local	WIND	9	4
03/01	17	Economic	Local	SOLR	30	204
03/01	17	Economic	System	SOLR	13	64