Wind and Solar Curtailment August 30, 2020

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.

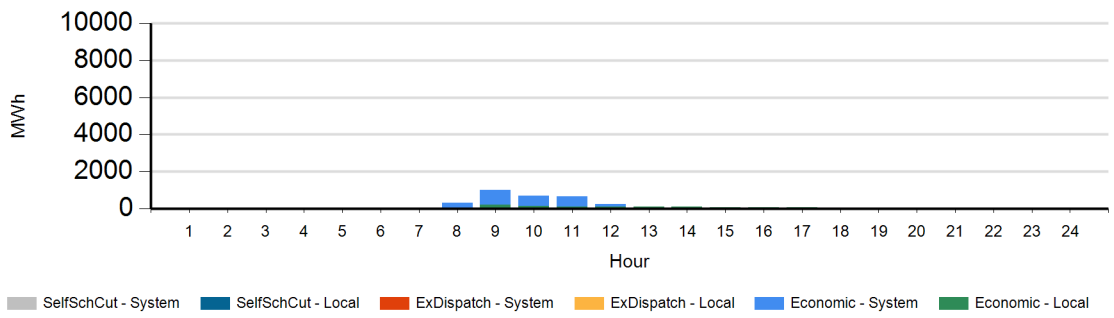
[2]The Renewables Watch report provides daily actual renewable production within the ISO grid. It is available at: http://www.caiso.com/green/renewableswatch.html.

[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.

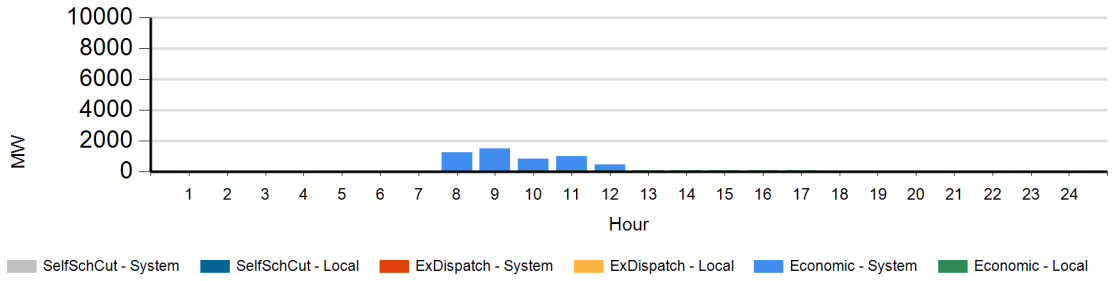
[]For more information on oversupply conditions, please see: https://www.caiso.com/Documents/FlexibleResourcesHelpRenewables_FastFacts.pdf

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

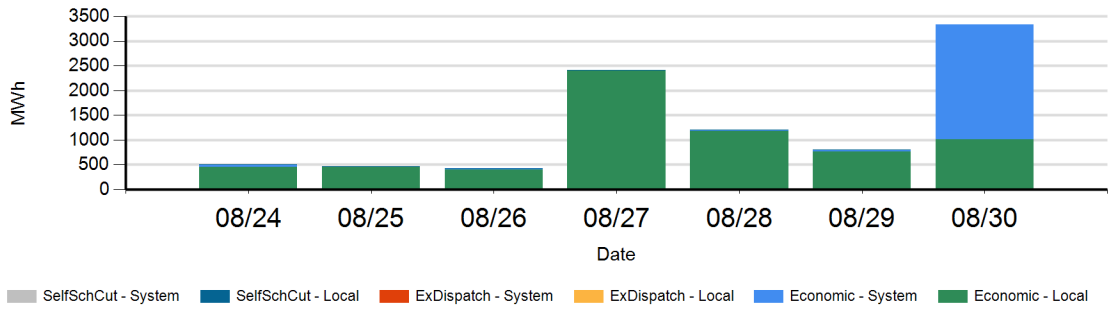
1. Hourly wind/solar generation curtailment energy in MWh. - 8/30/2020



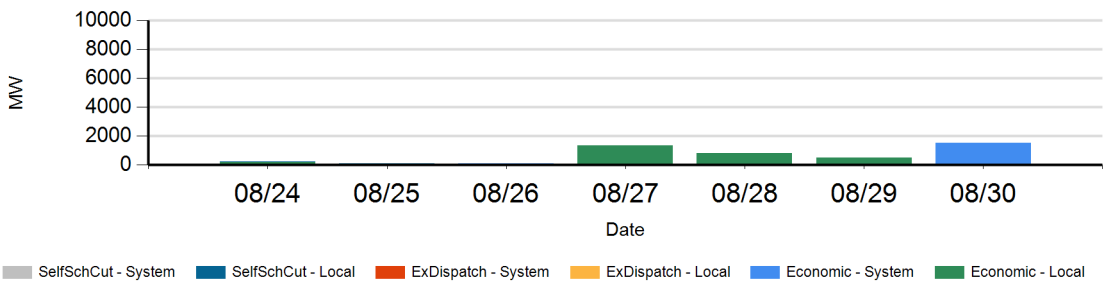
2. Maximum wind/solar generation curtailment in MW for any one of the twelve real-time dispatch intervals in a particular hour. - 8/30/2020



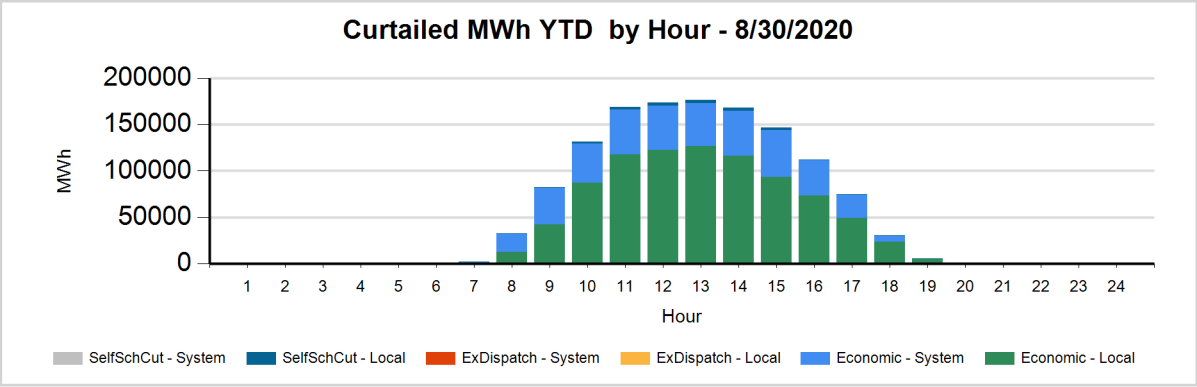
3. Daily wind/solar curtailment energy in MWh on a 7-day basis. - 8/30/2020



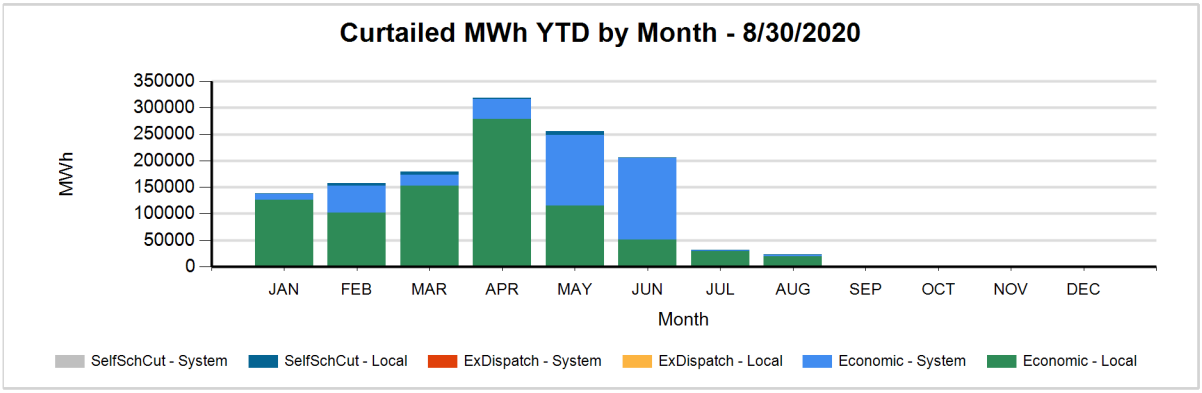
4. Maximum generation curtailment in MW for any one of the twelve real-time dispatch intervals in a particular day on a 7-day basis. - 8/30/2020



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 - 8/30/2020
LocalEconomic	872,611
LocalSelfSchCut	20,330
SystemEconomic	414,903
TOTAL	1,307,844

California ISO

Data used to produce hourly chart

DATE	HOUR	CURT TYPE	REASON	FUEL TYPE	CURTAILED MWH	CURTAILED MW
08/30	8	Economic	Local	SOLR	24	41
08/30	8	Economic	System	SOLR	257	1170
08/30	8	Economic	System	WIND	16	44
08/30	9	Economic	Local	SOLR	206	55
08/30	9	Economic	Local	WIND	6	
08/30	9	Economic	System	SOLR	758	1400
08/30	9	Economic	System	WIND	32	43
08/30	10	Economic	Local	SOLR	118	62
08/30	10	Economic	Local	WIND	2	
08/30	10	Economic	System	SOLR	563	733
08/30	10	Economic	System	WIND	19	25
08/30	11	Economic	Local	SOLR	105	69
08/30	11	Economic	Local	WIND	1	
08/30	11	Economic	System	SOLR	543	894
08/30	11	Economic	System	WIND	16	18
08/30	12	Economic	Local	SOLR	113	77
08/30	12	Economic	Local	WIND	1	
08/30	12	Economic	System	SOLR	111	346
08/30	12	Economic	System	WIND	5	24
08/30	13	Economic	Local	SOLR	91	91
08/30	14	Economic	Local	SOLR	93	94
08/30	15	Economic	Local	SOLR	79	91
08/30	16	Economic	Local	SOLR	67	73
08/30	17	Economic	Local	SOLR	62	70
08/30	18	Economic	Local	SOLR	37	53
08/30	19	Economic	Local	SOLR	6	21