

## Wind and Solar Curtailment May 26, 2018

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 congestion<sup>3</sup>.
- 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.

<sup>1</sup>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.

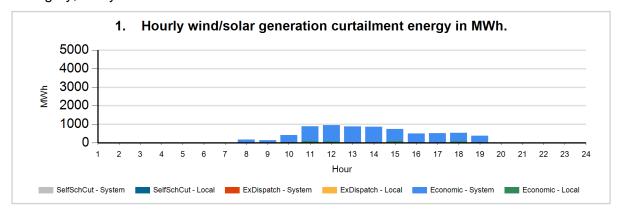
<sup>2</sup>The Renewables Watch report provides daily actual renewable production within the ISO grid. It is available at: <a href="http://www.caiso.com/green/renewableswatch.html">http://www.caiso.com/green/renewableswatch.html</a>.

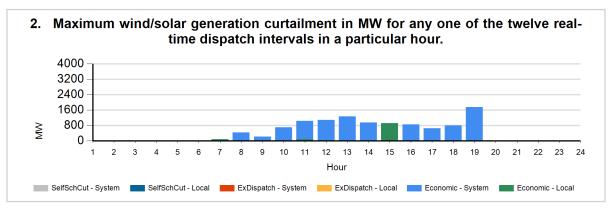
<sup>3</sup>Congestion occurs when available, least-cost energy cannot be delivered to some loads because transmission facilities do not have sufficient capacity to deliver the energy.

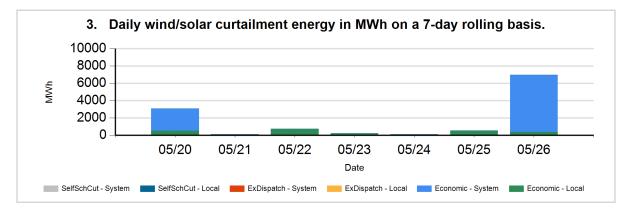
For more information on oversupply conditions, please see: <a href="https://www.caiso.com/Documents/FlexibleResourcesHelpRenewables">https://www.caiso.com/Documents/FlexibleResourcesHelpRenewables</a> FastFacts.pdf

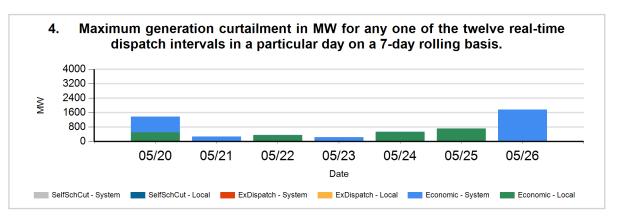


The following charts show the daily and 7-day rolling wind and solar curtailment by category, if any.



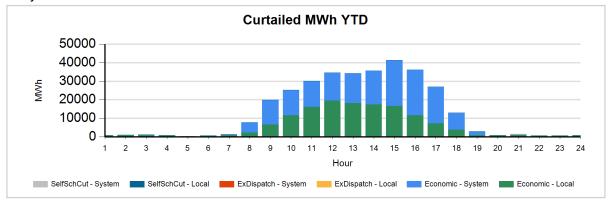




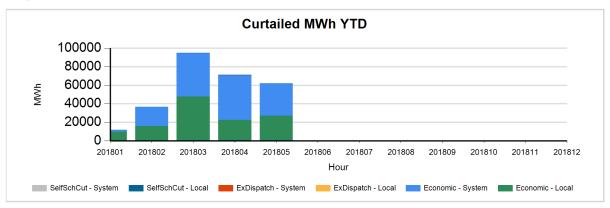




The following charts show hourly year to date wind and solar curtailment by category, if any.



The following charts show monthly year to date wind and solar curtailment by category, if any.



TYPE	YTD CURTAILED MWH
LocalEconomic	140,589
LocalSelfSchCut	1,370
SystemEconomic	175,893
SystemSelfSchCut	493
TOTAL	276,855



## Data used to produce hourly chart

DATE	HOU R	CURT TYPE	REASON	FUEL TYPE	CURTAILED MWH	CURTAILED MW
05/26	7	Economic	Local	WIND	8	74
05/26	8	Economic	System	SOLR	115	323
05/26	8	Economic	System	WIND	49	104
05/26	9	Economic	System	SOLR	57	145
05/26	9	Economic	System	WIND	78	77
05/26	10	Economic	System	SOLR	302	621
05/26	10	Economic	System	WIND	68	81
05/26	11	Economic	Local	SOLR	87	73
05/26	11	Economic	System	SOLR	718	873
05/26	11	Economic	System	WIND	79	82
05/26	12	Economic	Local	SOLR	63	2
05/26	12	Economic	System	SOLR	810	1000
05/26	12	Economic	System	WIND	76	83
05/26	13	Economic	System	SOLR	794	1195
05/26	13	Economic	System	WIND	80	71
05/26	14	Economic	System	SOLR	781	877
05/26	14	Economic	System	WIND	75	74
05/26	15	Economic	Local	SOLR	70	841
05/26	15	Economic	Local	WIND	6	73
05/26	16	Economic	Local	SOLR	3	8
05/26	16	Economic	System	SOLR	427	771
05/26	16	Economic	System	WIND	69	73
05/26	17	Economic	Local	SOLR	2	2
05/26	17	Economic	System	SOLR	442	565
05/26	17	Economic	System	WIND	78	79
05/26	18	Economic	System	SOLR	404	742
05/26	18	Economic	System	WIND	59	56
05/26	19	Economic	System	SOLR	336	1579
05/26	19	Economic	System	WIND	43	180
05/26	20	Economic	System	SOLR	0	5
05/26	22	Economic	System	WIND	0	2



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 Hong Zhou at hzhou@caiso.com.