

Wind and Solar Curtailment February 06, 2019

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 congestion³.
- 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.

¹Only 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.

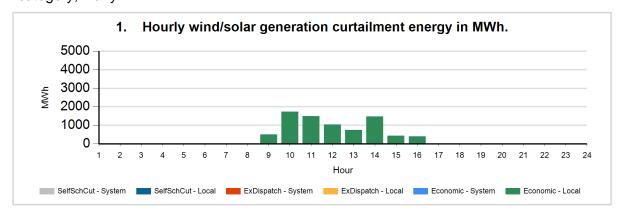
²The Renewables Watch report provides daily actual renewable production within the ISO grid. It is available at: http://www.caiso.com/green/renewableswatch.html.

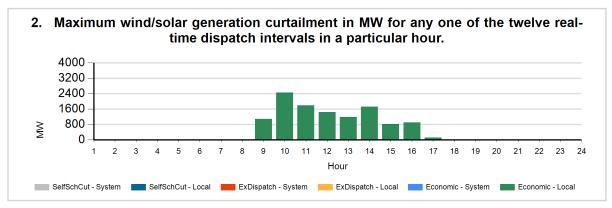
³Congestion occurs when available, least-cost energy cannot be delivered to some loads because transmission facilities do not have sufficient capacity to deliver the energy.

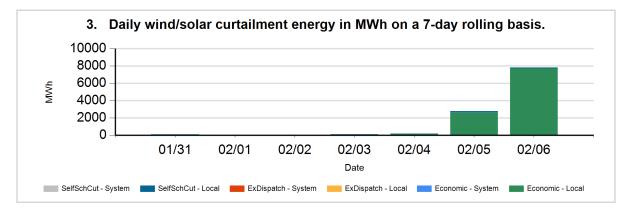
For more information on oversupply conditions, please see: https://www.caiso.com/Documents/FlexibleResourcesHelpRenewables FastFacts.pdf

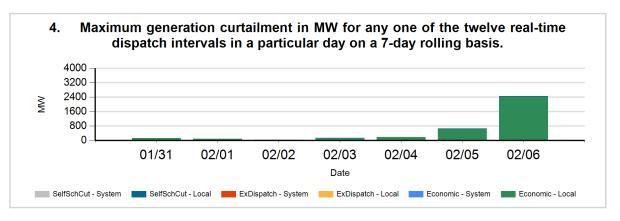


The following charts show the daily and 7-day rolling wind and solar curtailment by category, if any.



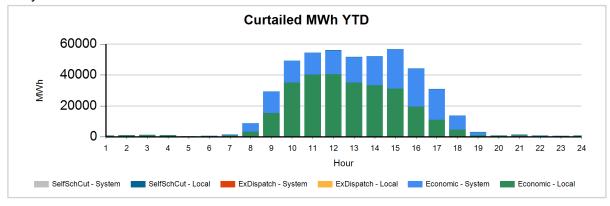




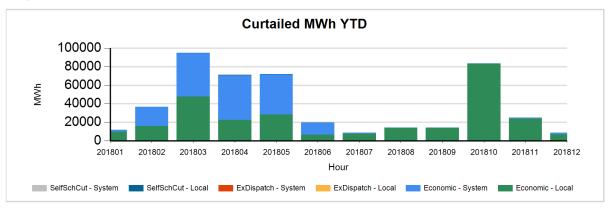




The following charts show hourly year to date wind and solar curtailment by category, if any.



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



TYPE	YTD CURTAILED MWH
LocalEconomic	279,577
LocalSelfSchCut	1,784
SystemEconomic	179,189
SystemSelfSchCut	493
TOTAL	484,752



Data used to produce hourly chart

DATE	HOU R	CURT TYPE	REASON	FUEL TYPE	CURTAILED MWH	CURTAILED MW
02/06	9	Economic	Local	SOLR	481	1049
02/06	9	Economic	Local	WIND	15	33
02/06	10	Economic	Local	SOLR	1685	2370
02/06	10	Economic	Local	WIND	34	44
02/06	10	SelfSchCut	Local	SOLR	14	30
02/06	11	Economic	Local	SOLR	1437	1720
02/06	11	Economic	Local	WIND	28	35
02/06	11	SelfSchCut	Local	SOLR	24	36
02/06	12	Economic	Local	SOLR	1005	1354
02/06	12	Economic	Local	WIND	10	41
02/06	12	SelfSchCut	Local	SOLR	23	34
02/06	13	Economic	Local	SOLR	736	1176
02/06	13	Economic	Local	WIND	3	5
02/06	13	SelfSchCut	Local	SOLR	8	9
02/06	14	Economic	Local	SOLR	1445	1674
02/06	14	Economic	Local	WIND	23	36
02/06	14	SelfSchCut	Local	SOLR	8	1
02/06	15	Economic	Local	SOLR	409	788
02/06	15	Economic	Local	WIND	2	7
02/06	15	SelfSchCut	Local	SOLR	12	23
02/06	16	Economic	Local	SOLR	386	878
02/06	16	Economic	Local	WIND	3	6
02/06	16	SelfSchCut	Local	SOLR	2	8
02/06	17	Economic	Local	SOLR	13	120

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.

