

Wind and Solar Curtailment March 01, 2017

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.
- Economic System: Market dispatch of generators with economic bids to mitigate systemwide oversupply⁴.
- 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.

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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.

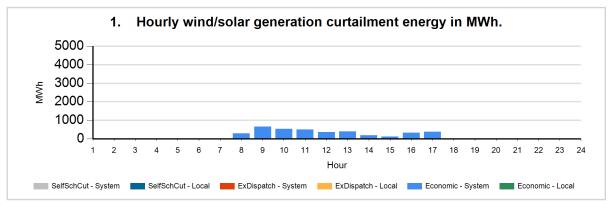
²The Renewables Watch report provides daily actual renewable production within the ISO grid. It is available at: http://www.caiso.com/green/renewableswatch.html.

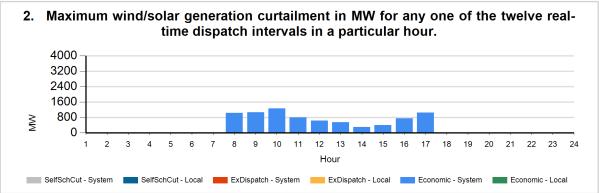
³Congestion occurs when available, least-cost energy cannot be delivered to some loads because transmission facilities do not have sufficient capacity to deliver the energy.

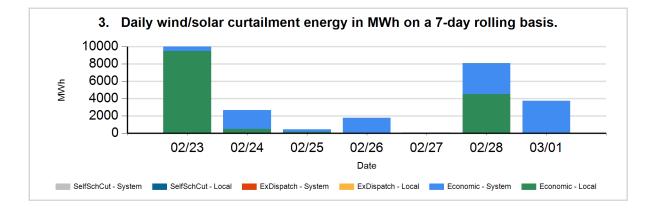
⁴For more information on oversupply conditions, please see: https://www.caiso.com/Documents/FlexibleResourcesHelpRenewables FastFacts.pdf

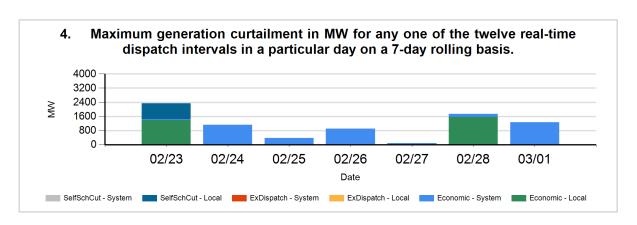


The following charts show the daily and 7-day rolling wind and solar curtailment by category, if any.









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Data used to produce hourly charts

DATE	HOUR	CURT TYPE	REASON	FUEL TYPE	CURTAILED MWH	CURTAILED MW
03/01	1	Economic	Local	WIND	1	3
03/01	8	Economic	System	SOLR	286	1008
03/01	8	Economic	System	WIND	7	27
03/01	9	Economic	Local	SOLR	1	
03/01	9	Economic	System	SOLR	636	1057
03/01	9	Economic	System	WIND	11	11
03/01	10	Economic	Local	SOLR	1	
03/01	10	Economic	System	SOLR	526	1248
03/01	10	Economic	System	WIND	11	14
03/01	11	Economic	System	SOLR	478	780
03/01	11	Economic	System	WIND	16	14
03/01	12	Economic	System	SOLR	346	618
03/01	12	Economic	System	WIND	23	21
03/01	13	Economic	System	SOLR	384	524
03/01	13	Economic	System	WIND	17	18
03/01	14	Economic	System	SOLR	172	282
03/01	14	Economic	System	WIND	12	16
03/01	15	Economic	System	SOLR	111	378
03/01	15	Economic	System	WIND	9	13
03/01	16	Economic	System	SOLR	315	735
03/01	16	Economic	System	WIND	10	14
03/01	17	Economic	System	SOLR	371	1005
03/01	17	Economic	System	WIND	12	44
03/01	18	Economic	System	SOLR	1	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.