

Wind and Solar Curtailment January 30, 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.
- 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.

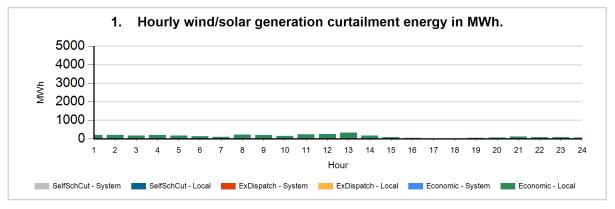
²The Renewables Watch report provides daily actual renewable production within the ISO grid. It is available at: http://www.caiso.com/green/renewableswatch.html.

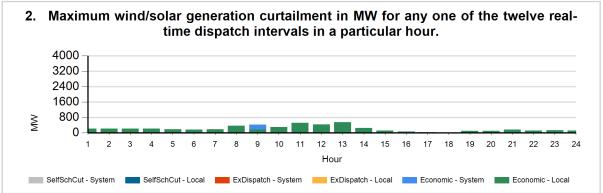
³Congestion occurs when available, least-cost energy cannot be delivered to some loads because transmission facilities do not have sufficient capacity to deliver the energy.

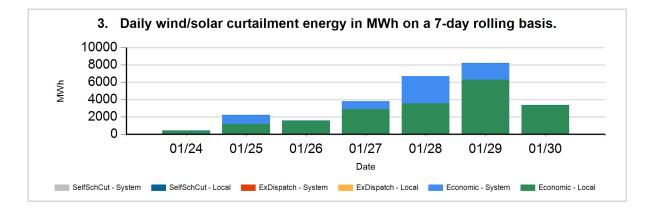
⁴For more information on oversupply conditions, please see: https://www.caiso.com/Documents/FlexibleResourcesHelpRenewables FastFacts.pdf

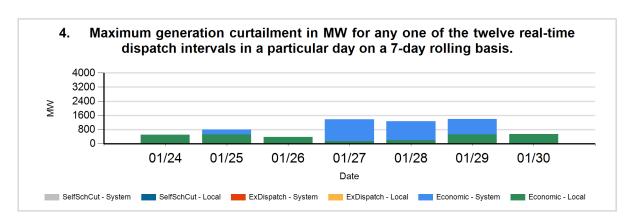


The following charts show the daily and 7-day rolling wind and solar curtailment by category, if any.









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Data used to produce hourly charts

DATE	HOUR	CURT TYPE	REASON	FUEL TYPE	CURTAILED MWH	CURTAILED MW
01/30	1	Economic	Local	WIND	200	223
01/30	2	Economic	Local	WIND	201	219
01/30	3	Economic	Local	WIND	177	216
01/30	4	Economic	Local	WIND	200	215
01/30	5	Economic	Local	WIND	169	180
01/30	6	Economic	Local	WIND	134	165
01/30	7	Economic	Local	WIND	107	180
01/30	8	Economic	Local	WIND	227	364
01/30	9	Economic	Local	SOLR	6	14
01/30	9	Economic	Local	WIND	185	150
01/30	9	Economic	System	SOLR	21	253
01/30	9	Economic	System	WIND	0	2
01/30	9	SelfSchCut	Local	SOLR	0	1
01/30	10	Economic	Local	SOLR	56	215
01/30	10	Economic	Local	WIND	105	91
01/30	10	Economic	System	SOLR	0	
01/30	10	Economic	System	WIND	1	
01/30	11	Economic	Local	SOLR	144	381
01/30	11	Economic	Local	WIND	92	139
01/30	11	SelfSchCut	Local	SOLR	0	
01/30	12	Economic	Local	SOLR	74	147
01/30	12	Economic	Local	WIND	174	287
01/30	12	Economic	System	SOLR	0	
01/30	12	Economic	System	WIND	0	
01/30	13	Economic	Local	SOLR	201	385
01/30	13	Economic	Local	WIND	125	156
01/30	13	SelfSchCut	Local	SOLR	2	
01/30	14	Economic	Local	SOLR	13	2
01/30	14	Economic	Local	WIND	157	243



01/30	14 5	SelfSchCut	Local	SOLR	0	
01/30	15 E	Economic	Local	WIND	82	111
01/30	16 E	Economic	Local	WIND	45	69
01/30	16 E	Economic	System	SOLR	1	
01/30	17 E	Economic	Local	WIND	5	25
01/30	17 E	Economic	System	SOLR	1	2
01/30	19 E	Economic	Local	WIND	55	96
01/30	20 E	Economic	Local	WIND	66	98
01/30	21 E	Economic	Local	WIND	116	161
01/30	22 E	Economic	Local	WIND	89	117
01/30	23 E	Economic	Local	WIND	79	131
01/30	24 E	Economic	Local	WIND	59	108

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.

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