

Wind and Solar Curtailment January 27, 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.

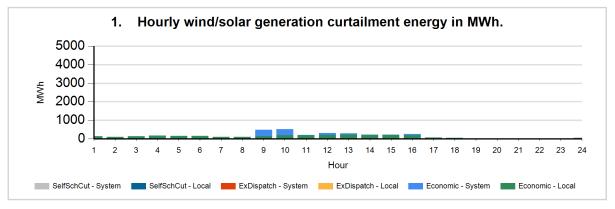
²The Renewables Watch report provides daily actual renewable production within the ISO grid. It is available at: http://www.caiso.com/green/renewableswatch.html.

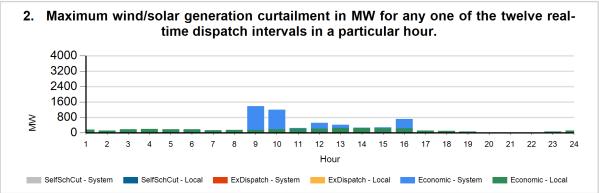
³Congestion occurs when available, least-cost energy cannot be delivered to some loads because transmission facilities do not have sufficient capacity to deliver the energy.

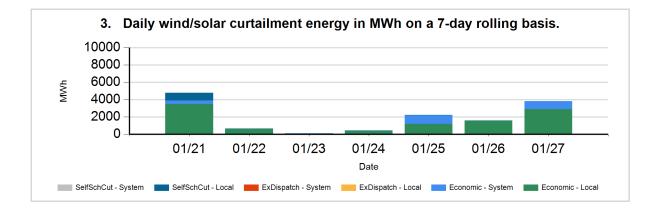
⁴For more information on oversupply conditions, please see: https://www.caiso.com/Documents/FlexibleResourcesHelpRenewables FastFacts.pdf

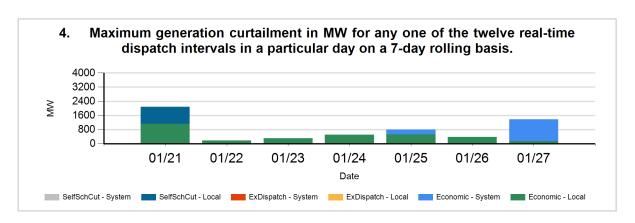


The following charts show the daily and 7-day rolling wind and solar curtailment by category, if any.









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Data used to produce hourly charts

DATE	HOUR	CURT TYPE	REASON	FUEL TYPE	CURTAILED MWH	CURTAILED MW
01/27	1	Economic	Local	WIND	145	170
01/27	2	Economic	Local	WIND	101	120
01/27	3	Economic	Local	WIND	138	178
01/27	4	Economic	Local	WIND	167	194
01/27	5	Economic	Local	WIND	155	175
01/27	6	Economic	Local	WIND	154	189
01/27	7	Economic	Local	WIND	101	126
01/27	8	Economic	Local	WIND	107	146
01/27	9	Economic	Local	SOLR	0	
01/27	9	Economic	Local	WIND	141	142
01/27	9	Economic	System	SOLR	292	1067
01/27	9	Economic	System	WIND	47	166
01/27	10	Economic	Local	SOLR	7	11
01/27	10	Economic	Local	WIND	173	175
01/27	10	Economic	System	SOLR	296	938
01/27	10	Economic	System	WIND	45	80
01/27	11	Economic	Local	SOLR	5	
01/27	11	Economic	Local	WIND	195	221
01/27	11	Economic	System	SOLR	2	1
01/27	11	Economic	System	WIND	2	22
01/27	12	Economic	Local	WIND	212	218
01/27	12	Economic	System	SOLR	65	228
01/27	12	Economic	System	WIND	32	78
01/27	13	Economic	Local	WIND	229	252
01/27	13	Economic	System	SOLR	31	73
01/27	13	Economic	System	WIND	36	93
01/27	14	Economic	Local	WIND	220	263
01/27	14	Economic	System	SOLR	1	1
01/27	14	Economic	System	WIND	3	



01/27	15	Economic	Local	WIND	210	237
01/27	15	Economic	System	SOLR	2	6
01/27	15	Economic	System	WIND	12	45
01/27	16	Economic	Local	WIND	196	238
01/27	16	Economic	System	SOLR	54	430
01/27	16	Economic	System	WIND	15	42
01/27	17	Economic	Local	WIND	65	118
01/27	18	Economic	Local	WIND	57	98
01/27	19	Economic	Local	WIND	18	65
01/27	21	Economic	Local	WIND	8	20
01/27	22	Economic	Local	WIND	3	18
01/27	23	Economic	Local	WIND	21	63
01/27	24	Economic	Local	WIND	56	118

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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