

Wind and Solar Curtailment January 25, 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.

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.

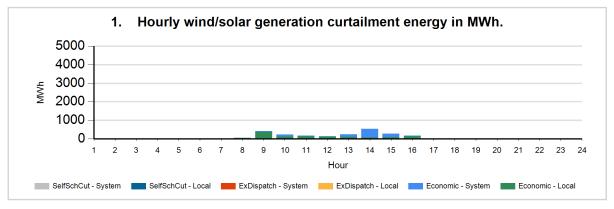
³Congestion occurs when available, least-cost energy cannot be delivered to some loads because transmission facilities do not have sufficient capacity to deliver the energy.

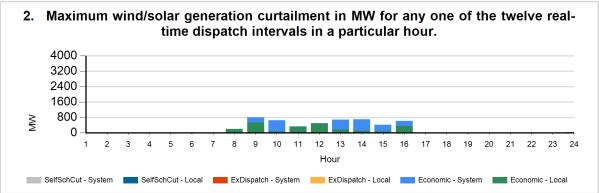
⁴For more information on oversupply conditions, please see: https://www.caiso.com/Documents/FlexibleResourcesHelpRenewables FastFacts.pdf

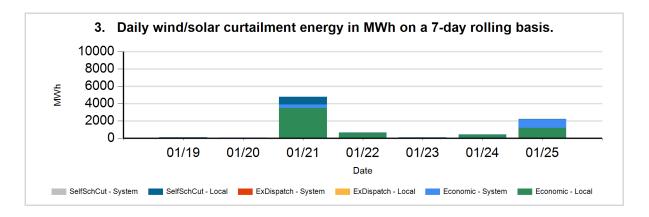
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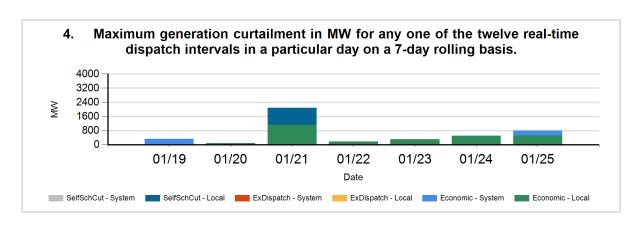


The following charts show the daily and 7-day rolling wind and solar curtailment by category, if any.









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Data used to produce hourly charts

DATE	HOUR	CURT TYPE	REASON	FUEL TYPE	CURTAILED MWH	CURTAILED MW
01/25	8	Economic	Local	SOLR	53	191
01/25	9	Economic	Local	SOLR	371	529
01/25	9	Economic	Local	WIND	4	1
01/25	9	Economic	System	SOLR	47	275
01/25	9	Economic	System	WIND	0	1
01/25	10	Economic	Local	SOLR	104	14
01/25	10	Economic	Local	WIND	14	46
01/25	10	Economic	System	SOLR	108	585
01/25	10	Economic	System	WIND	0	1
01/25	10	SelfSchCut	Local	SOLR	1	
01/25	11	Economic	Local	SOLR	93	290
01/25	11	Economic	Local	WIND	48	47
01/25	11	Economic	System	SOLR	24	1
01/25	11	Economic	System	WIND	0	
01/25	11	SelfSchCut	Local	SOLR	0	
01/25	12	Economic	Local	SOLR	109	440
01/25	12	Economic	Local	WIND	15	57
01/25	12	Economic	System	SOLR	10	1
01/25	12	Economic	System	WIND	0	
01/25	13	Economic	Local	SOLR	90	157
01/25	13	Economic	Local	WIND	9	1
01/25	13	Economic	System	SOLR	134	522
01/25	13	Economic	System	WIND	0	1
01/25	14	Economic	Local	SOLR	0	
01/25	14	Economic	Local	WIND	62	94
01/25	14	Economic	System	SOLR	468	602
01/25	14	Economic	System	WIND	1	1
01/25	15	Economic	Local	SOLR	6	
01/25	15	Economic	Local	WIND	79	66



01/25	15 Economic	System	SOLR	192	355
01/25	15 Economic	System	WIND	1	1
01/25	16 Economic	Local	SOLR	108	321
01/25	16 Economic	Local	WIND	22	30
01/25	16 Economic	System	SOLR	49	264
01/25	16 Economic	System	WIND	0	0
01/25	17 Economic	System	SOLR	0	2
01/25	24 Economic	Local	WIND	3	24

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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