

Wind and Solar Curtailment December 02, 2016

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.

CAISO/HZ 1 December 02, 2016

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.

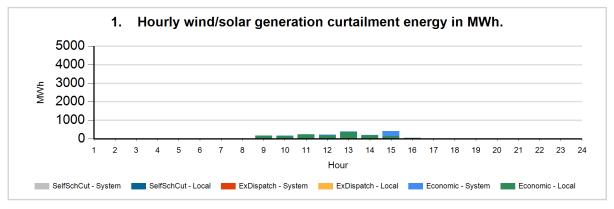
²The Renewables Watch report provides daily actual renewable production within the ISO grid. It is available at: http://www.caiso.com/green/renewableswatch.html.

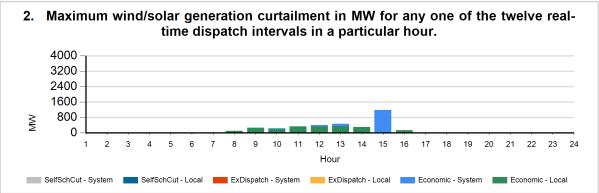
³Congestion occurs when available, least-cost energy cannot be delivered to some loads because transmission facilities do not have sufficient capacity to deliver the energy.

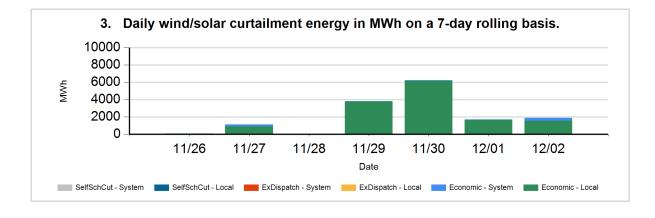
⁴For more information on oversupply conditions, please see: https://www.caiso.com/Documents/FlexibleResourcesHelpRenewables FastFacts.pdf

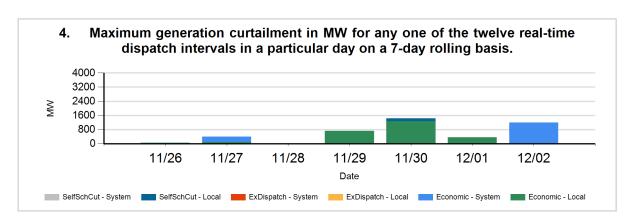


The following charts show the daily and 7-day rolling wind and solar curtailment by category, if any.









CAISO/HZ 2 December 02, 2016



Data used to produce hourly charts



CURTAILED MW	CURTAILED MWH	FUEL TYPE	REASON	CURT TYPE	HOUR	DATE
20	3	WIND	Local	Economic	7	12/02
88	15	SOLR	Local	Economic	8	12/02
5	2	WIND	Local	Economic	8	12/02
258	163	SOLR	Local	Economic	9	12/02
	1	WIND	Local	Economic	9	12/02
1	0	SOLR	System	Economic	9	12/02
201	177	SOLR	Local	Economic	10	12/02
5	1	WIND	Local	Economic	10	12/02
3	0	SOLR	System	Economic	10	12/02
15	1	WIND	System	Economic	10	12/02
329	241	SOLR	Local	Economic	11	12/02
278	183	SOLR	Local	Economic	12	12/02
32	9	WIND	Local	Economic	12	12/02
4	1	SOLR	System	Economic	12	12/02
89	33	WIND	System	Economic	12	12/02
325	290	SOLR	Local	Economic	13	12/02
26	69	WIND	Local	Economic	13	12/02
28	6	SOLR	System	Economic	13	12/02
89	34	WIND	System	Economic	13	12/02
273	194	SOLR	Local	Economic	14	12/02
24	15	WIND	Local	Economic	14	12/02
	1	SOLR	System	Economic	14	12/02
	2	WIND	System	Economic	14	12/02
	122	SOLR	Local	Economic	15	12/02
	6	WIND	Local	Economic	15	12/02
938	215	SOLR	System	Economic	15	12/02
251	66	WIND	System	Economic	15	12/02
132	50	SOLR	Local	Economic	16	12/02
11	1	WIND	Local	Economic	17	12/02
2	0	WIND	Local	Economic	18	12/02

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.