

Wind and Solar Curtailment April 08, 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.
- 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.

CAISO/HZ 1 April 09, 2017

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.

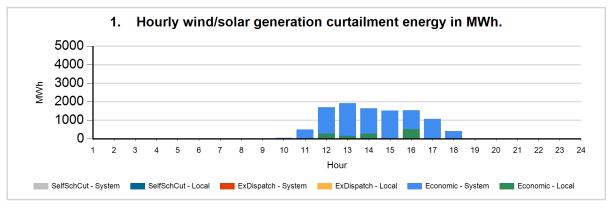
²The Renewables Watch report provides daily actual renewable production within the ISO grid. It is available at: http://www.caiso.com/green/renewableswatch.html.

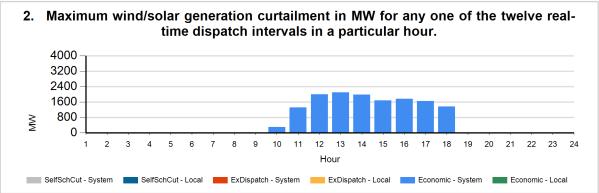
³Congestion occurs when available, least-cost energy cannot be delivered to some loads because transmission facilities do not have sufficient capacity to deliver the energy.

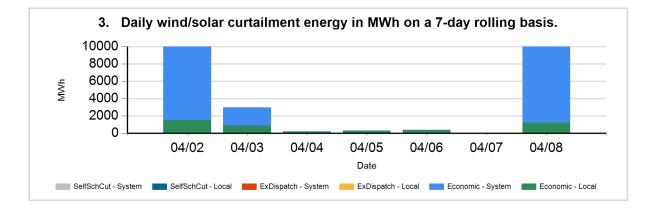
⁴For more information on oversupply conditions, please see: https://www.caiso.com/Documents/FlexibleResourcesHelpRenewables FastFacts.pdf

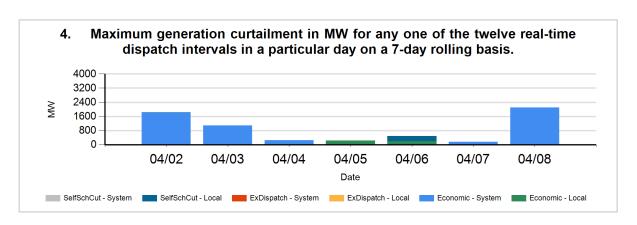


The following charts show the daily and 7-day rolling wind and solar curtailment by category, if any.











Data used to produce hourly charts



RTAILED MW	CURTAILED MWH	FUEL TYPE	REASON	CURT TYPE	HOUR	DATE
3	0	SOLR	Local	Economic	9	04/08
	18	SOLR	Local	Economic	10	04/08
273	31	SOLR	System	Economic	10	04/08
21	2	WIND	System	Economic	10	04/08
13	8	SOLR	Local	Economic	11	04/08
1289	485	SOLR	System	Economic	11	04/08
13	5	WIND	System	Economic	11	04/08
12	266	SOLR	Local	Economic	12	04/08
	1	WIND	Local	Economic	12	04/08
1719	1358	SOLR	System	Economic	12	04/08
271	54	WIND	System	Economic	12	04/08
	11	SOLR	Local	SelfSchCut	12	04/08
	146	SOLR	Local	Economic	13	04/08
	3	WIND	Local	Economic	13	04/08
1680	1548	SOLR	System	Economic	13	04/08
414	215	WIND	System	Economic	13	04/08
	256	SOLR	Local	Economic	14	04/08
	11	WIND	Local	Economic	14	04/08
1617	1263	SOLR	System	Economic	14	04/08
368	104	WIND	System	Economic	14	04/08
1500	1463	SOLR	System	Economic	15	04/08
178	51	WIND	System	Economic	15	04/08
	490	SOLR	Local	Economic	16	04/08
	31	WIND	Local	Economic	16	04/08
1496	954	SOLR	System	Economic	16	04/08
268	66	WIND	System	Economic	16	04/08
1456	1035	SOLR	System	Economic	17	04/08
201	40	WIND	System	Economic	17	04/08
1270	401	SOLR	System	Economic	18	04/08
90	15	WIND	System	Economic	18	04/08
	0	SOLR	Local	Economic	19	04/08
2	0	SOLR	System	Economic	19	04/08



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.