

Wind and Solar Curtailment February 12, 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.
2. Economic - System: Market dispatch of generators with economic bids to mitigate system-wide 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.

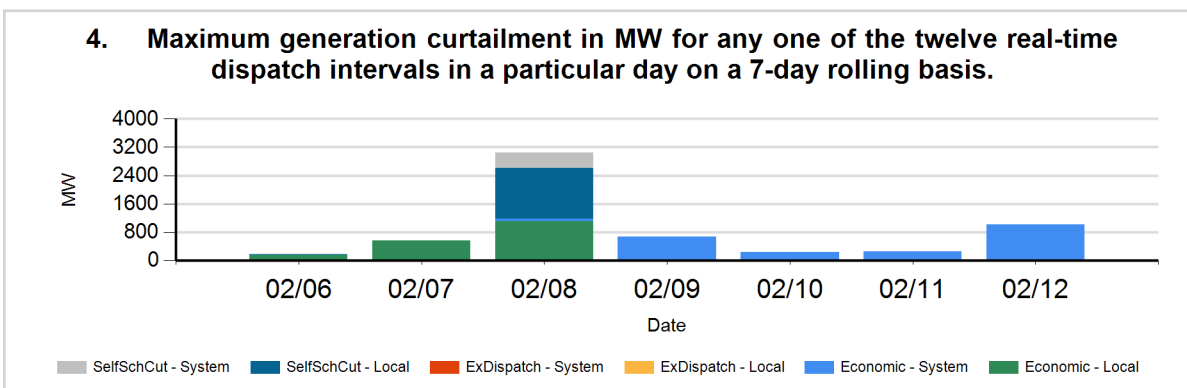
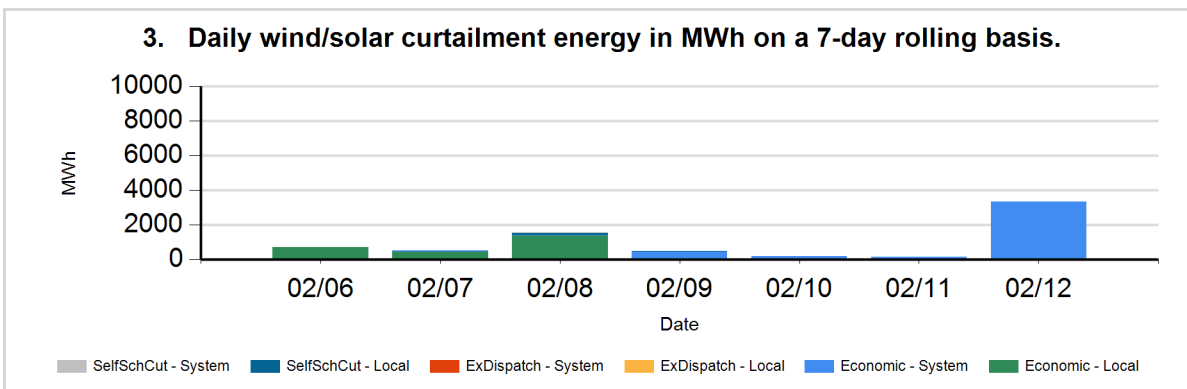
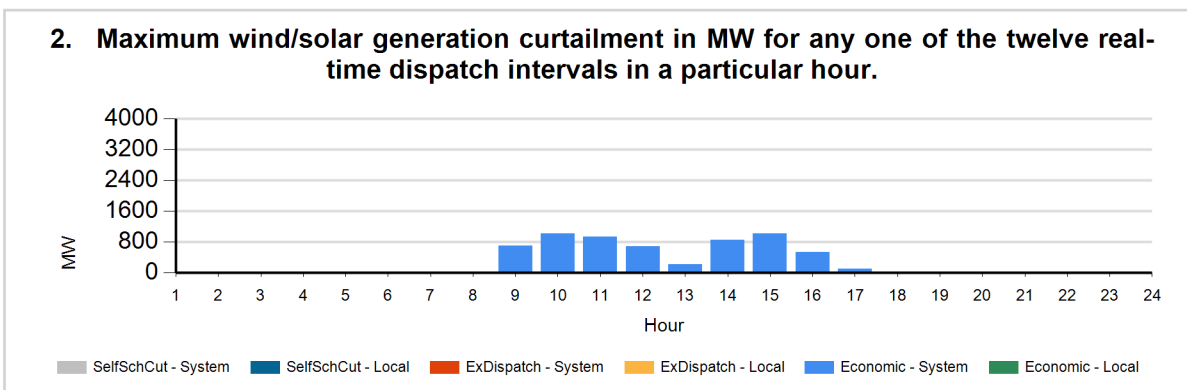
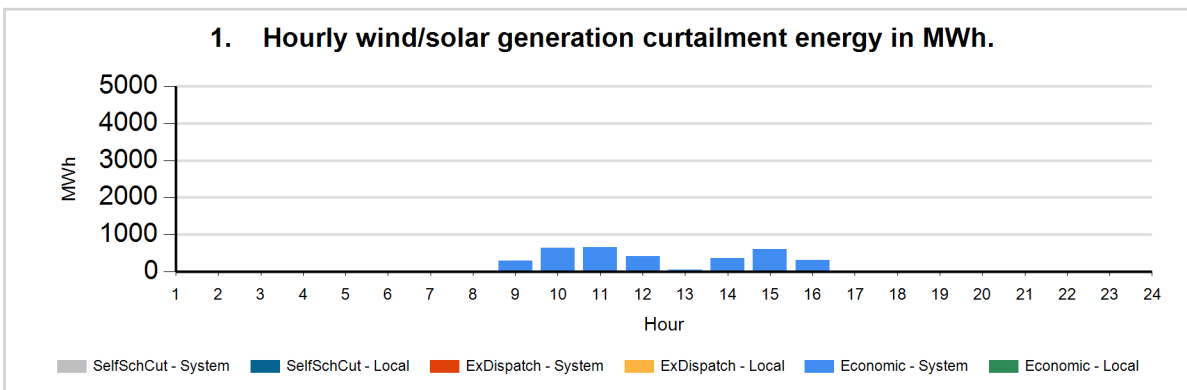
¹Only wind and solar resources can be reported in this manner because these resources have a forecast. Curtailment is defined as the difference between actual production and the forecast when actual production is less than the forecast.

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

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



Data used to produce hourly charts

DATE	HOUR	CURT TYPE	REASON	FUEL TYPE	CURTAILED MWH	CURTAILED MW
02/12	9	Economic	System	SOLR	257	577
02/12	9	Economic	System	WIND	41	129
02/12	10	Economic	System	SOLR	596	947
02/12	10	Economic	System	WIND	40	64
02/12	11	Economic	System	SOLR	635	913
02/12	11	Economic	System	WIND	28	29
02/12	12	Economic	System	SOLR	383	645
02/12	12	Economic	System	WIND	30	31
02/12	13	Economic	System	SOLR	36	194
02/12	13	Economic	System	WIND	14	23
02/12	14	Economic	System	SOLR	333	834
02/12	14	Economic	System	WIND	23	20
02/12	15	Economic	System	SOLR	577	982
02/12	15	Economic	System	WIND	25	33
02/12	16	Economic	System	SOLR	282	508
02/12	16	Economic	System	WIND	18	22
02/12	17	Economic	System	SOLR	6	76
02/12	17	Economic	System	WIND	2	18

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.