

## Wind and Solar Curtailment March 06, 2017

This report is produced daily to provide a detailed accounting of the wind and solar renewable generation that was curtailed and the reasons why<sup>1</sup>. This report should be read in the context of the Renewables Watch report for a more complete understanding of both renewable curtailment and generation<sup>2</sup>.

Wind and solar curtailments are grouped into the following categories:

1. Economic - Local: Market dispatch of generators with economic bids to mitigate local congestion<sup>3</sup>.
2. Economic - System: Market dispatch of generators with economic bids to mitigate system-wide oversupply<sup>4</sup>.
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.

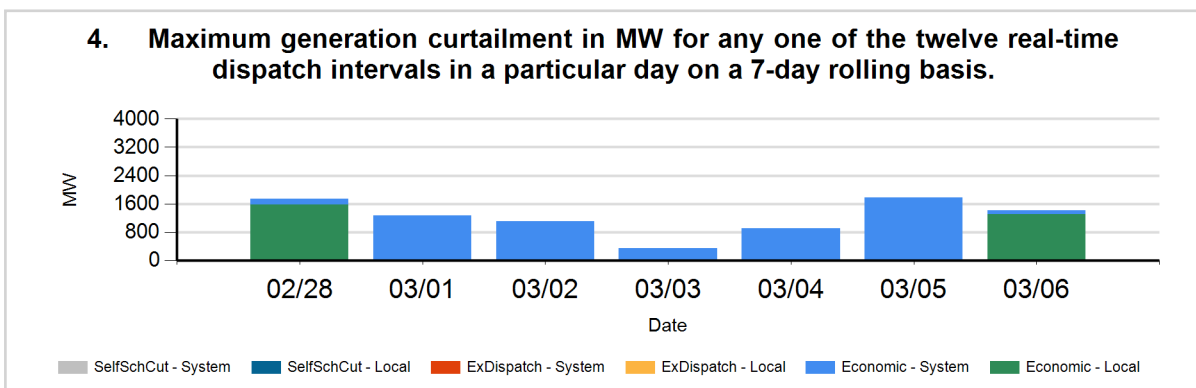
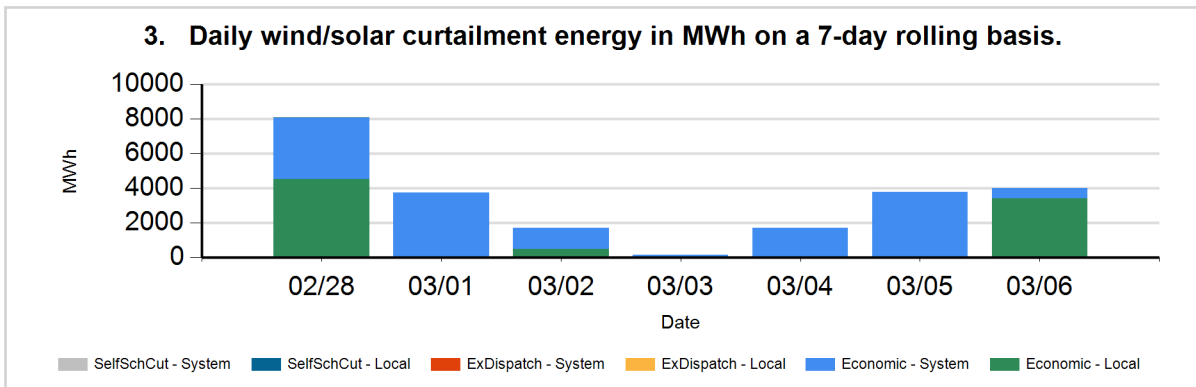
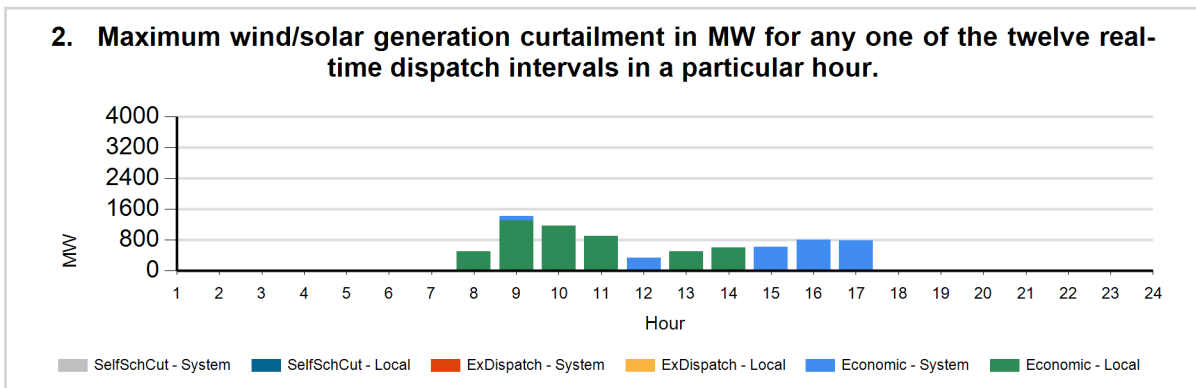
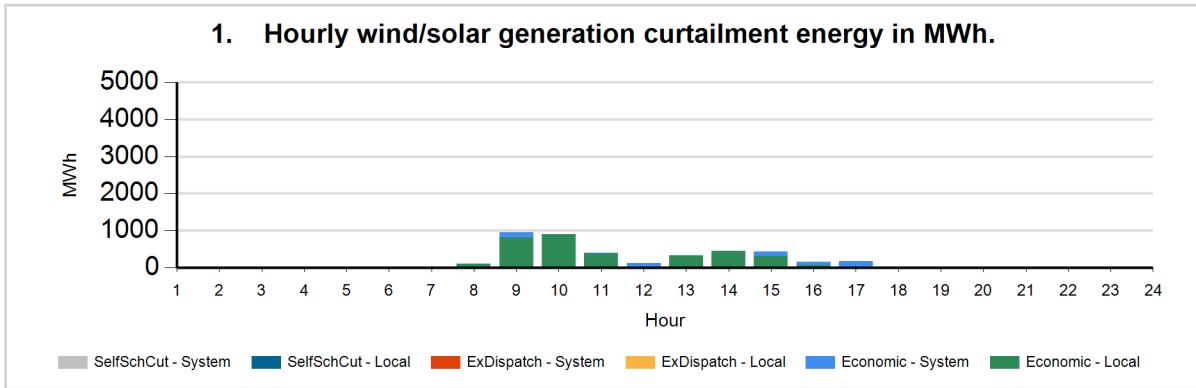
<sup>1</sup>Only wind and solar resources can be reported in this manner because these resources have a forecast. Curtailment is defined as the difference between actual production and the forecast when actual production is less than the forecast.

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

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

<sup>4</sup>For more information on oversupply conditions, please see: [https://www.caiso.com/Documents/FlexibleResourcesHelpRenewables\\_FastFacts.pdf](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
03/06	8	Economic	Local	SOLR	88	448
03/06	8	Economic	Local	WIND	9	53
03/06	9	Economic	Local	SOLR	771	1175
03/06	9	Economic	Local	WIND	45	131
03/06	9	Economic	System	SOLR	129	102
03/06	9	Economic	System	WIND	5	14
03/06	10	Economic	Local	SOLR	885	1144
03/06	10	Economic	Local	WIND	20	18
03/06	11	Economic	Local	SOLR	384	883
03/06	11	Economic	Local	WIND	16	17
03/06	11	Economic	System	SOLR	3	
03/06	11	Economic	System	WIND	0	
03/06	12	Economic	Local	SOLR	7	
03/06	12	Economic	Local	WIND	1	
03/06	12	Economic	System	SOLR	99	325
03/06	12	Economic	System	WIND	8	14
03/06	13	Economic	Local	SOLR	317	493
03/06	13	Economic	Local	WIND	11	11
03/06	14	Economic	Local	SOLR	444	588
03/06	14	Economic	Local	WIND	10	10
03/06	15	Economic	Local	SOLR	312	
03/06	15	Economic	Local	WIND	1	
03/06	15	Economic	System	SOLR	121	613
03/06	15	Economic	System	WIND	1	3
03/06	16	Economic	Local	SOLR	74	
03/06	16	Economic	Local	WIND	1	
03/06	16	Economic	System	SOLR	83	789
03/06	16	Economic	System	WIND	1	5
03/06	17	Economic	System	SOLR	172	780
03/06	17	Economic	System	WIND	1	2

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](mailto:hzhou@caiso.com).