

Wind and Solar Curtailment February 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.
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.

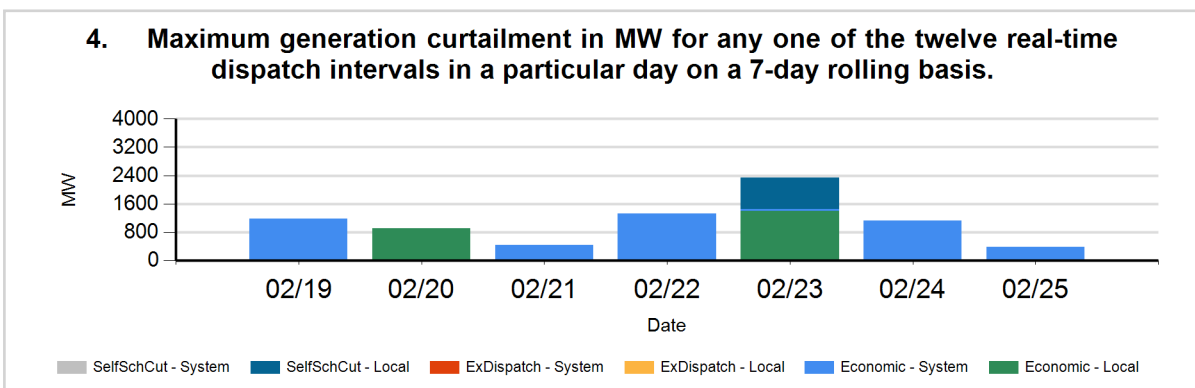
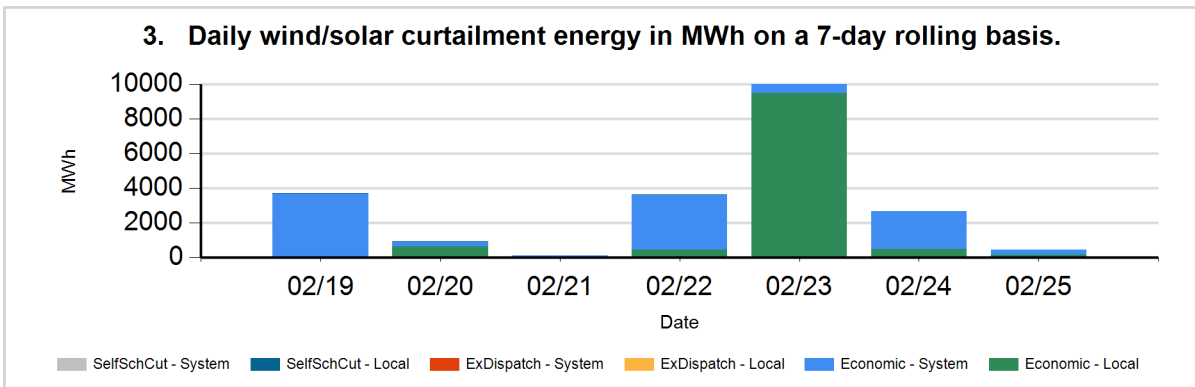
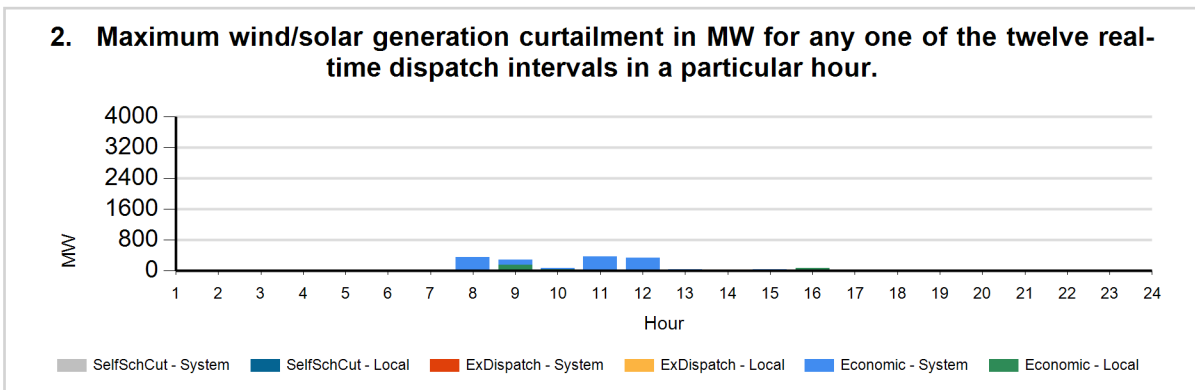
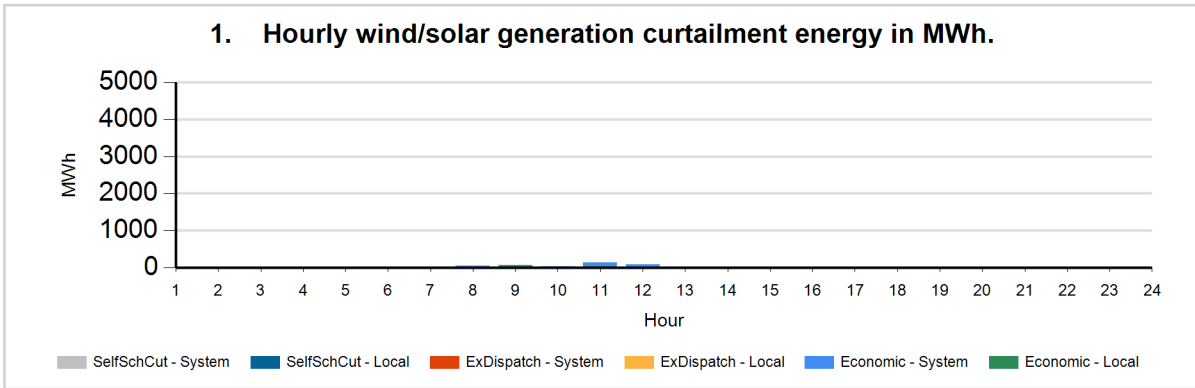
¹Only wind and solar resources can be reported in this manner because these resources have a forecast. Curtailment is defined as the difference between actual production and the forecast when actual production is less than the forecast.

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
02/25	8	Economic	Local	SOLR	4	
02/25	8	Economic	Local	WIND	0	
02/25	8	Economic	System	SOLR	50	342
02/25	8	Economic	System	WIND	0	2
02/25	9	Economic	Local	SOLR	62	155
02/25	9	Economic	Local	WIND	0	1
02/25	9	Economic	System	SOLR	11	121
02/25	9	Economic	System	WIND	0	0
02/25	10	Economic	Local	SOLR	34	25
02/25	10	Economic	Local	WIND	1	3
02/25	10	Economic	System	SOLR	5	40
02/25	11	Economic	Local	SOLR	22	13
02/25	11	Economic	Local	WIND	3	2
02/25	11	Economic	System	SOLR	120	358
02/25	11	Economic	System	WIND	0	0
02/25	12	Economic	Local	SOLR	11	2
02/25	12	Economic	Local	WIND	3	4
02/25	12	Economic	System	SOLR	72	324
02/25	12	Economic	System	WIND	0	0
02/25	13	Economic	System	SOLR	13	28
02/25	14	Economic	System	SOLR	5	22
02/25	15	Economic	System	SOLR	4	32
02/25	16	Economic	Local	SOLR	4	47
02/25	16	Economic	Local	WIND	4	23
02/25	16	Economic	System	SOLR	2	
02/25	17	Economic	System	SOLR	4	12

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.