

Wind and Solar Curtailment June 02, 2019

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 oversupply.
- 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.

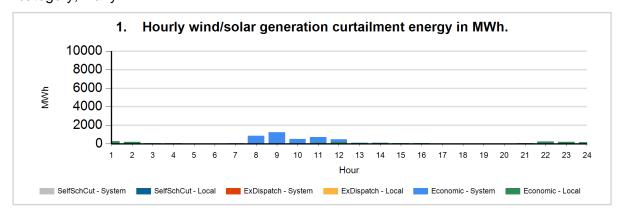
²The Renewables Watch report provides daily actual renewable production within the ISO grid. It is available at: http://www.caiso.com/green/renewableswatch.html.

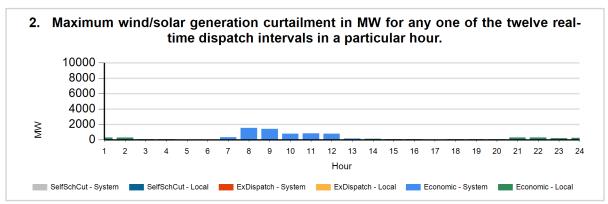
³Congestion occurs when available, least-cost energy cannot be delivered to some loads because transmission facilities do not have sufficient capacity to deliver the energy.

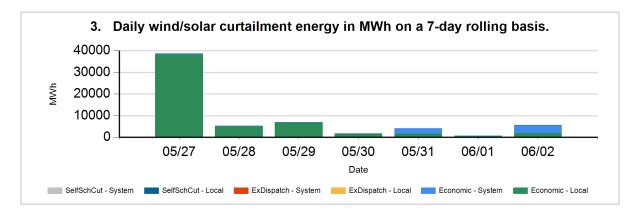
For more information on oversupply conditions, please see: https://www.caiso.com/Documents/FlexibleResourcesHelpRenewables FastFacts.pdf

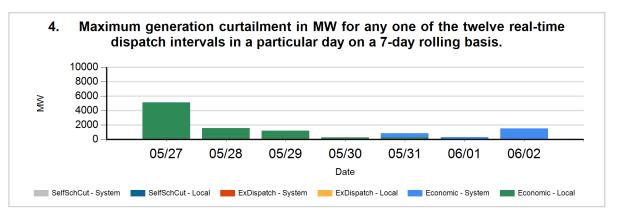


The following charts show the daily and 7-day rolling wind and solar curtailment by category, if any.



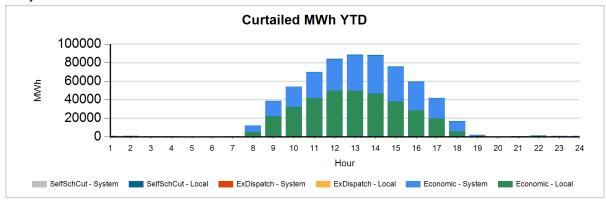




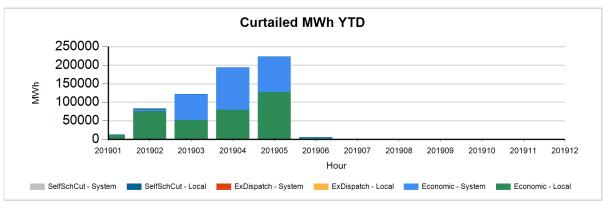




The following charts show hourly year to date wind and solar curtailment by category, if any.



The following charts show monthly year to date wind and solar curtailment by category, if any.



TYPE	YTD CURTAILED MWH		
LocalEconomic	347,879		
LocalSelfSchCut	5,724		
SystemEconomic	287,538		
TOTAL	641,141		



Data used to produce hourly chart

DATE	HOU R	CURT TYPE	REASON	FUEL TYPE	CURTAILED MWH	CURTAILED MW
06/02	1	Economic	Local	WIND	286	300
06/02	2	Economic	Local	WIND	220	304
06/02	3	Economic	Local	WIND	59	66
06/02	4	Economic	Local	WIND	54	64
06/02	5	Economic	Local	WIND	46	52
06/02	6	Economic	Local	WIND	2	10
06/02	7	Economic	Local	WIND	4	10
06/02	7	Economic	System	SOLR	60	329
06/02	8	Economic	System	SOLR	820	1492
06/02	8	Economic	System	WIND	30	30
06/02	9	Economic	Local	SOLR	13	5
06/02	9	Economic	System	SOLR	1219	1382
06/02	9	Economic	System	WIND	26	27
06/02	10	Economic	Local	SOLR	36	30
06/02	10	Economic	System	SOLR	444	749
06/02	10	Economic	System	WIND	22	23
06/02	11	Economic	Local	SOLR	107	49
06/02	11	Economic	System	SOLR	595	761
06/02	11	Economic	System	WIND	18	19
06/02	12	Economic	Local	SOLR	149	58
06/02	12	Economic	System	SOLR	306	696
06/02	12	Economic	System	WIND	13	19
06/02	13	Economic	Local	SOLR	73	61
06/02	13	Economic	System	SOLR	32	63
06/02	13	Economic	System	WIND	2	20
06/02	14	Economic	Local	SOLR	69	103
06/02	14	SelfSchCut	Local	SOLR	2	2
06/02	15	Economic	Local	SOLR	60	76
06/02	15	SelfSchCut	Local	SOLR	1	3
06/02	16	Economic	Local	SOLR	50	62
06/02	16	SelfSchCut	Local	SOLR	2	4



06/02	17	Economic	Local	SOLR	19	17
06/02	17	Economic	System	SOLR	5	19
06/02	18	Economic	Local	WIND	13	58
06/02	19	Economic	Local	WIND	25	72
06/02	20	Economic	Local	WIND	29	60
06/02	21	Economic	Local	WIND	61	230
06/02	21	SelfSchCut	Local	WIND	6	74
06/02	22	Economic	Local	WIND	217	234
06/02	22	SelfSchCut	Local	WIND	11	55
06/02	23	Economic	Local	WIND	187	208
06/02	24	Economic	Local	WIND	184	238

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 Short-Term Forecasting at ShortTermForecasting@caiso.com.