

Wind and Solar Curtailment May 29, 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 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.

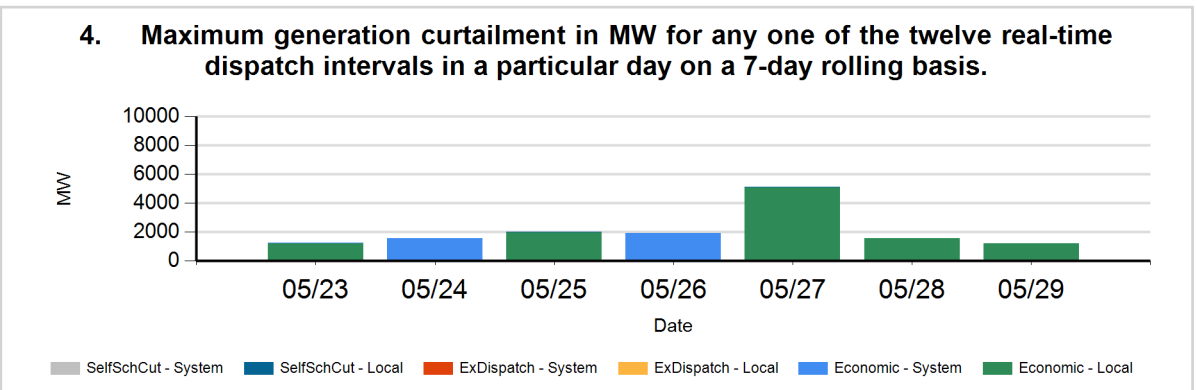
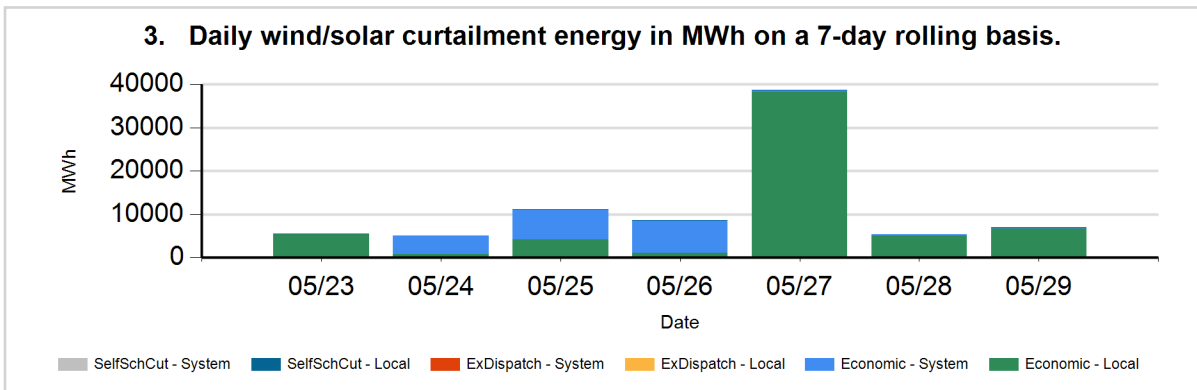
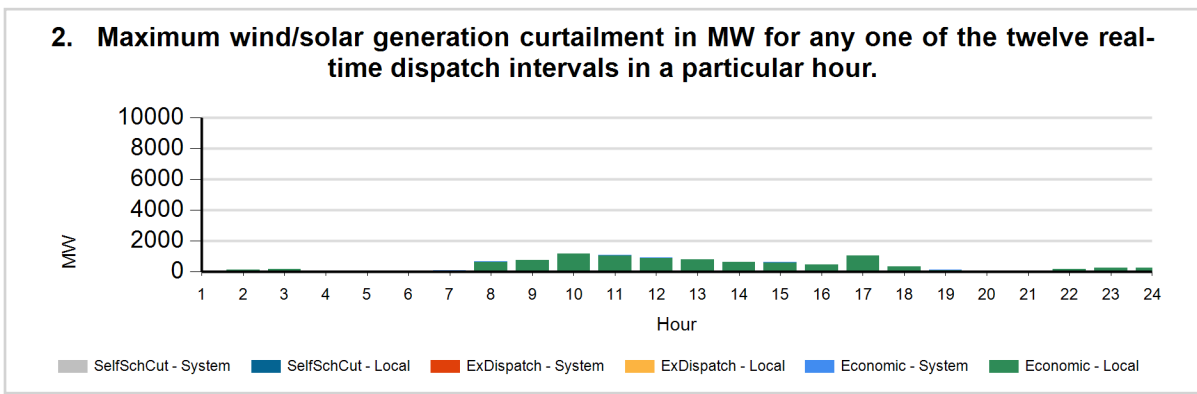
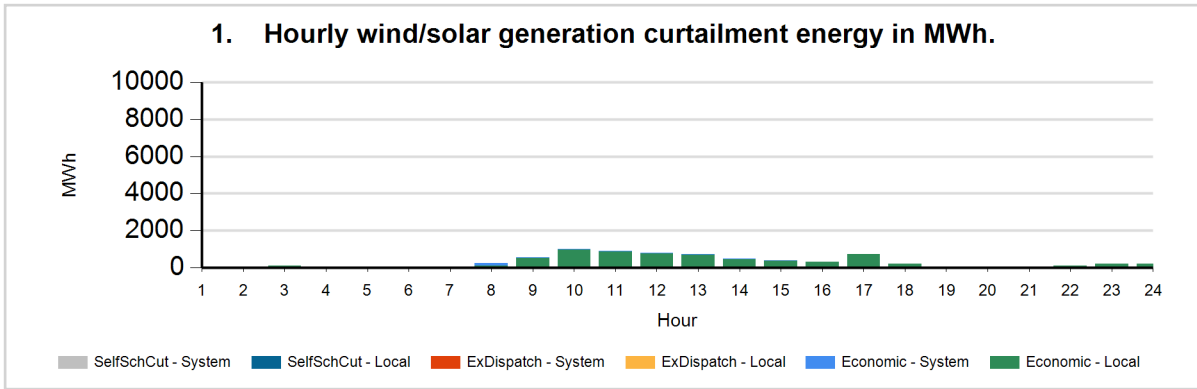
¹Only wind and solar resources can be reported in this manner because these resources have a forecast. Curtailment is defined as the difference between actual production and the forecast when actual production is less than the forecast.

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

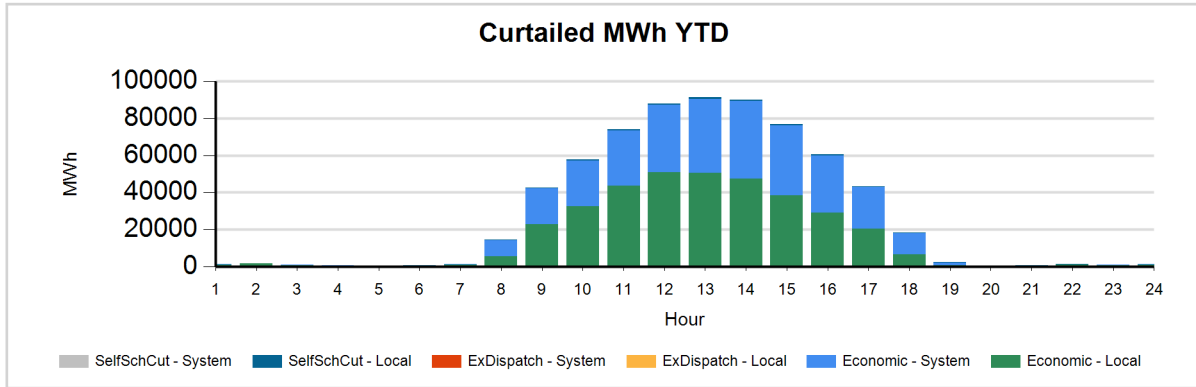
³Congestion occurs when available, least-cost energy cannot be delivered to some loads because transmission facilities do not have sufficient capacity to deliver the energy.

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

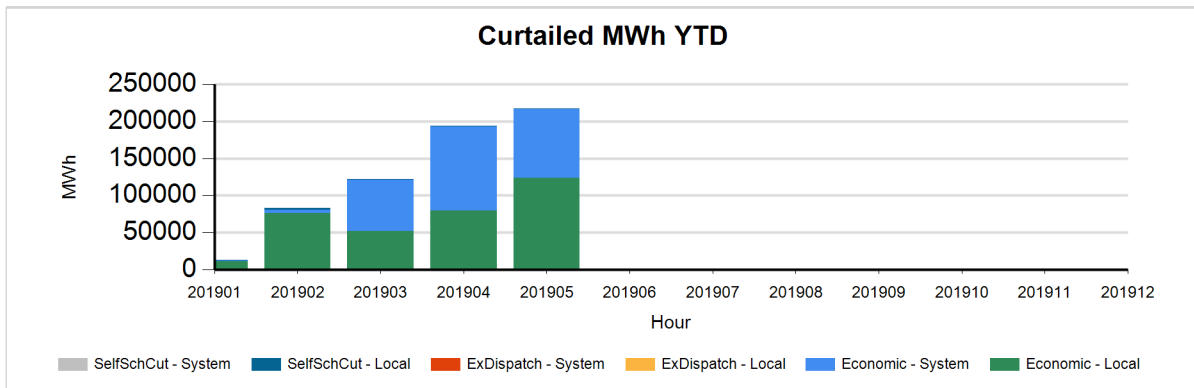
The following charts show the daily and 7-day rolling wind and solar curtailment by category, if any.



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	342,052
LocalSelfSchCut	5,701
SystemEconomic	281,115
TOTAL	628,868

Data used to produce hourly chart

DATE	HOUR	CURT TYPE	REASON	FUEL TYPE	CURTAILED MWH	CURTAILED MW
05/29	2	Economic	Local	WIND	25	102
05/29	3	Economic	Local	WIND	99	153
05/29	7	Economic	System	SOLR	21	59
05/29	8	Economic	Local	SOLR	103	604
05/29	8	Economic	System	SOLR	122	53
05/29	9	Economic	Local	SOLR	517	748
05/29	10	Economic	Local	SOLR	981	1174
05/29	11	Economic	Local	SOLR	878	1069
05/29	11	Economic	System	SOLR	4	7
05/29	12	Economic	Local	SOLR	781	895
05/29	12	Economic	System	SOLR	6	6
05/29	13	Economic	Local	SOLR	715	807
05/29	14	Economic	Local	SOLR	486	638
05/29	15	Economic	Local	SOLR	374	602
05/29	15	Economic	System	SOLR	2	2
05/29	16	Economic	Local	SOLR	296	435
05/29	17	Economic	Local	SOLR	624	885
05/29	17	Economic	Local	WIND	85	136
05/29	18	Economic	Local	SOLR	80	146
05/29	18	Economic	Local	WIND	119	168
05/29	19	Economic	Local	WIND	32	103
05/29	19	Economic	System	SOLR	2	7
05/29	20	Economic	Local	WIND	5	22
05/29	21	Economic	Local	WIND	5	55
05/29	22	Economic	Local	WIND	96	182
05/29	23	Economic	Local	WIND	220	245
05/29	24	Economic	Local	WIND	193	248

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.

