

Wind and Solar Curtailment May 26, 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.

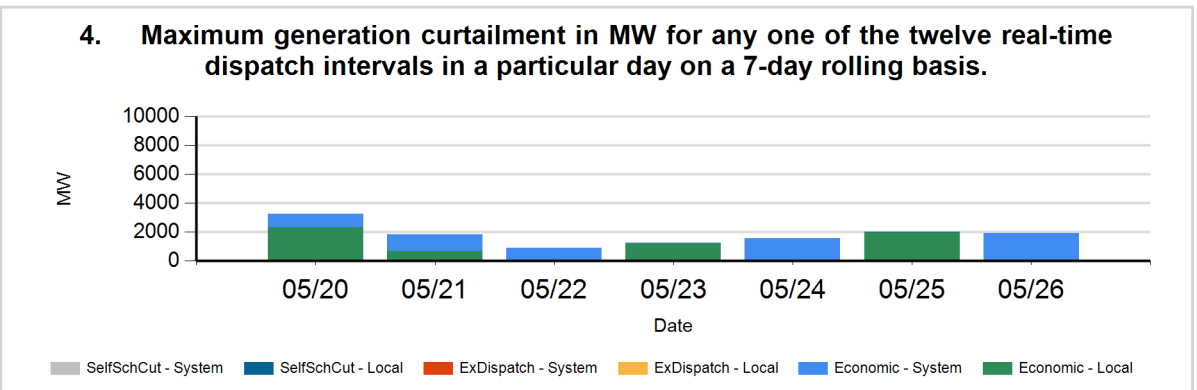
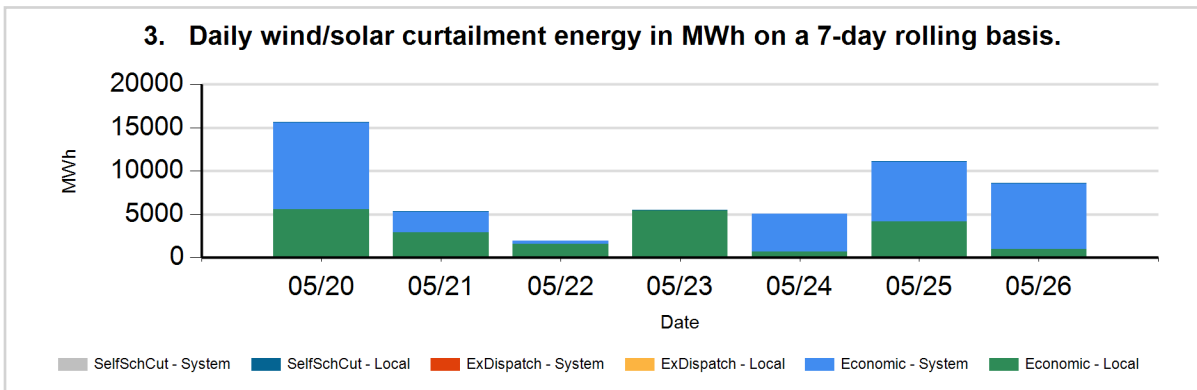
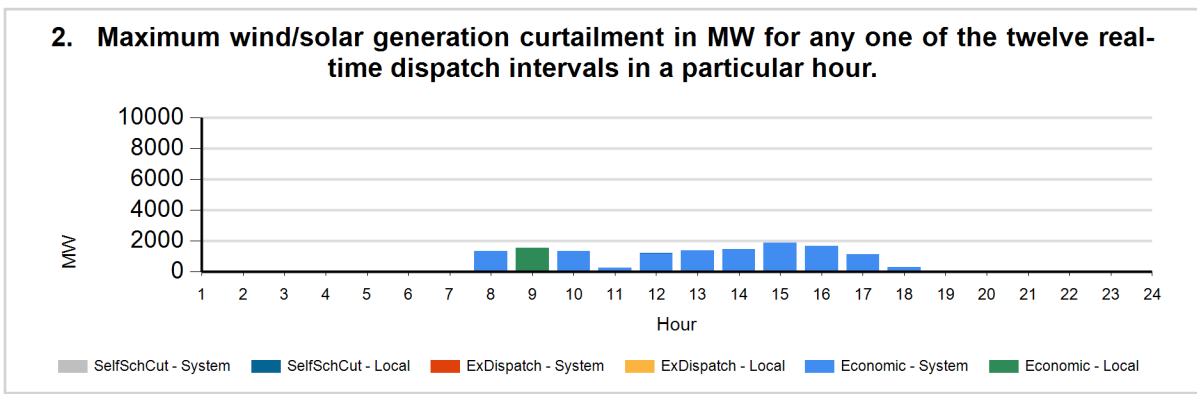
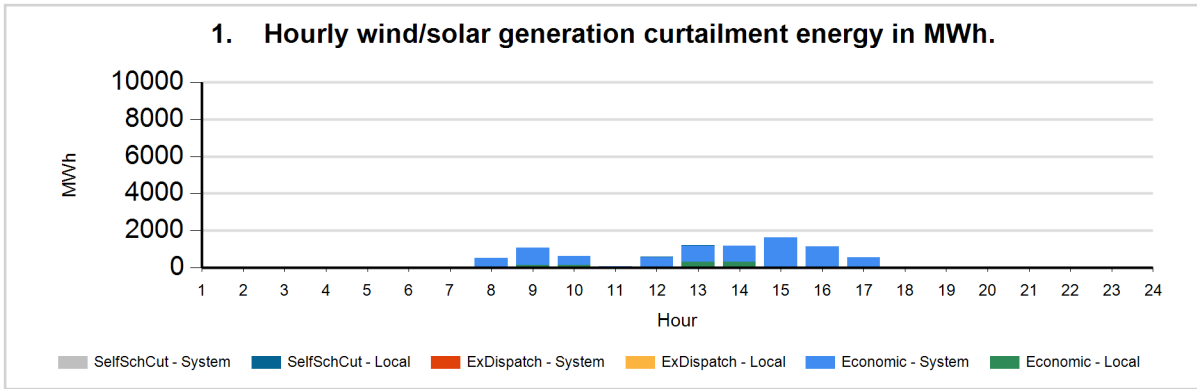
¹Only wind and solar resources can be reported in this manner because these resources have a forecast. Curtailment is defined as the difference between actual production and the forecast when actual production is less than the forecast.

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

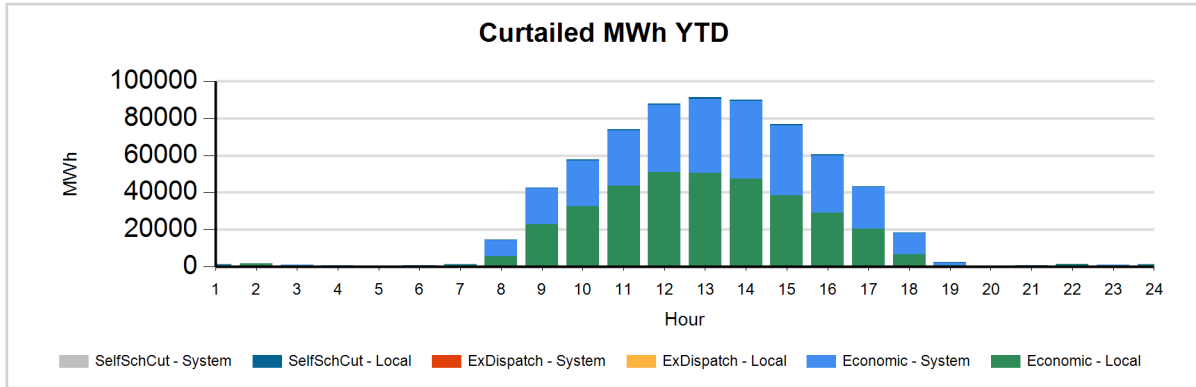
³Congestion occurs when available, least-cost energy cannot be delivered to some loads because transmission facilities do not have sufficient capacity to deliver the energy.

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

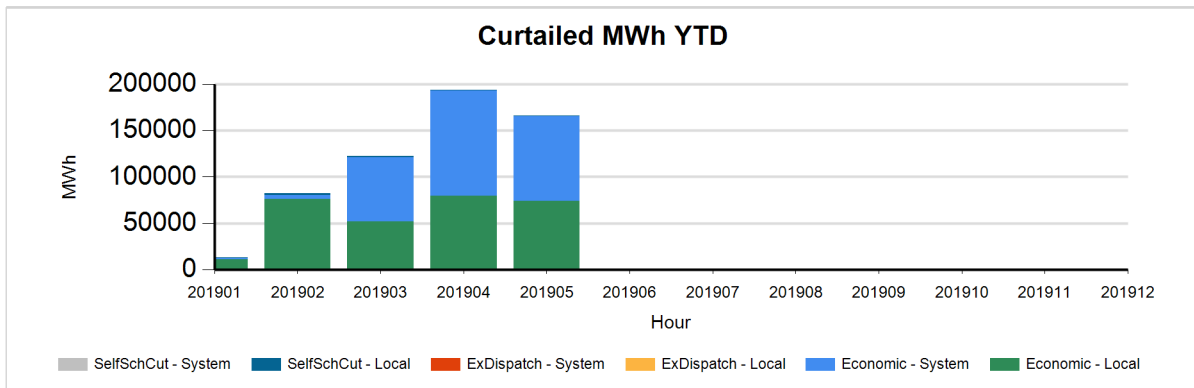
The following charts show the daily and 7-day rolling wind and solar curtailment by category, if any.



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	292,047
LocalSelfSchCut	5,687
SystemEconomic	280,212
TOTAL	577,947

Data used to produce hourly chart

DATE	HOUR	CURT TYPE	REASON	FUEL TYPE	CURTAILED MWH	CURTAILED MW
05/26	7	Economic	System	WIND	2	11
05/26	8	Economic	System	SOLR	499	1263
05/26	8	Economic	System	WIND	31	77
05/26	9	Economic	Local	SOLR	124	1488
05/26	9	Economic	Local	WIND	3	39
05/26	10	Economic	System	SOLR	475	1280
05/26	10	Economic	System	WIND	25	39
05/26	11	Economic	Local	SOLR	22	19
05/26	11	Economic	System	SOLR	32	208
05/26	11	Economic	System	WIND	15	27
05/26	12	Economic	Local	SOLR	17	23
05/26	12	Economic	System	SOLR	526	1121
05/26	12	Economic	System	WIND	43	45
05/26	12	SelfSchCut	Local	SOLR	3	2
05/26	13	Economic	System	SOLR	857	1321
05/26	13	Economic	System	WIND	31	44
05/26	14	Economic	System	SOLR	847	1399
05/26	14	Economic	System	WIND	33	43
05/26	15	Economic	System	SOLR	1572	1854
05/26	15	Economic	System	WIND	41	40
05/26	16	Economic	System	SOLR	1091	1612
05/26	16	Economic	System	WIND	37	40
05/26	17	Economic	System	SOLR	492	1071
05/26	17	Economic	System	WIND	21	36
05/26	18	Economic	Local	SOLR	5	10
05/26	18	Economic	System	SOLR	25	237
05/26	18	Economic	System	WIND	2	26
05/26	19	Economic	System	SOLR	1	5

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.

