

Wind and Solar Curtailment June 08, 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.

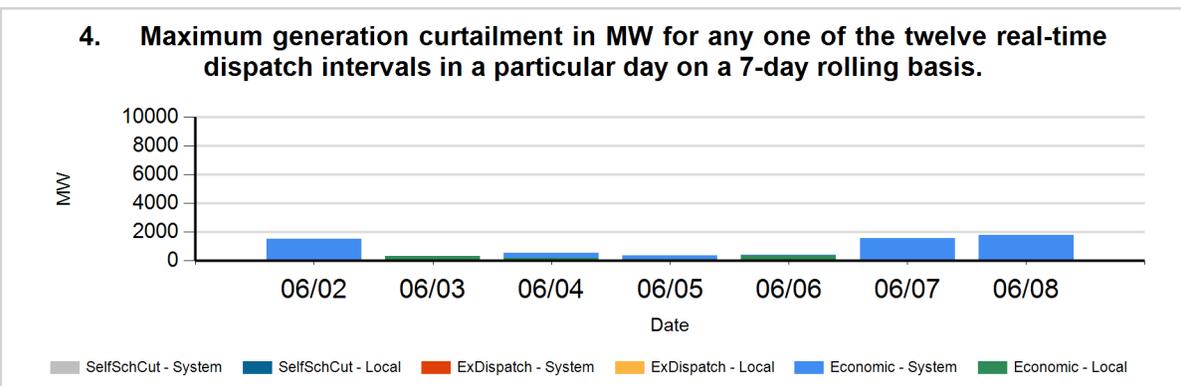
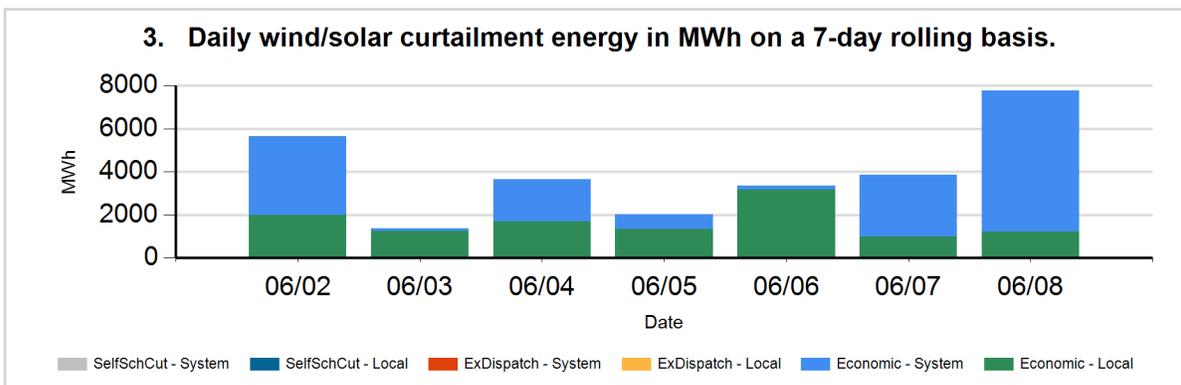
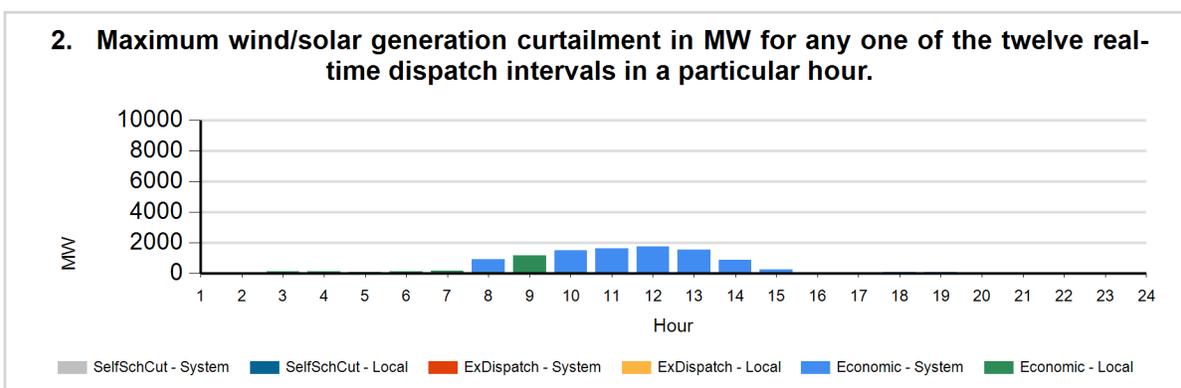
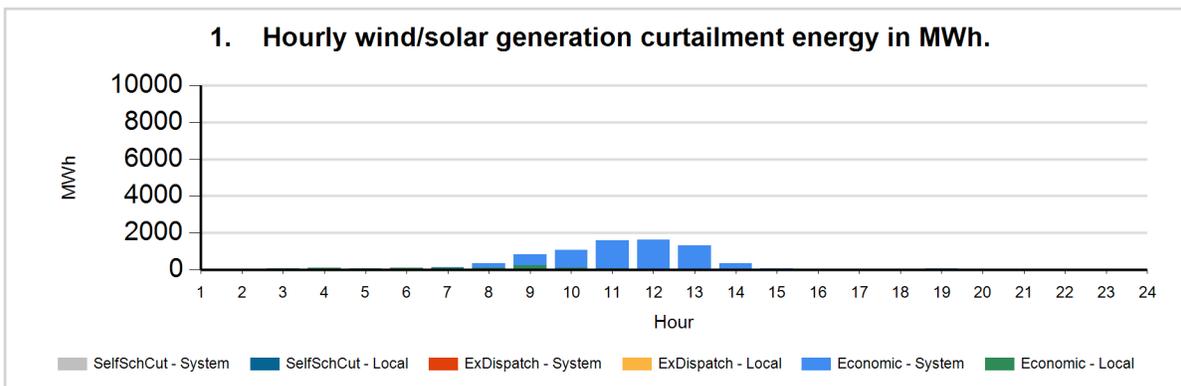
¹Only wind and solar resources can be reported in this manner because these resources have a forecast. Curtailment is defined as the difference between actual production and the forecast when actual production is less than the forecast.

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

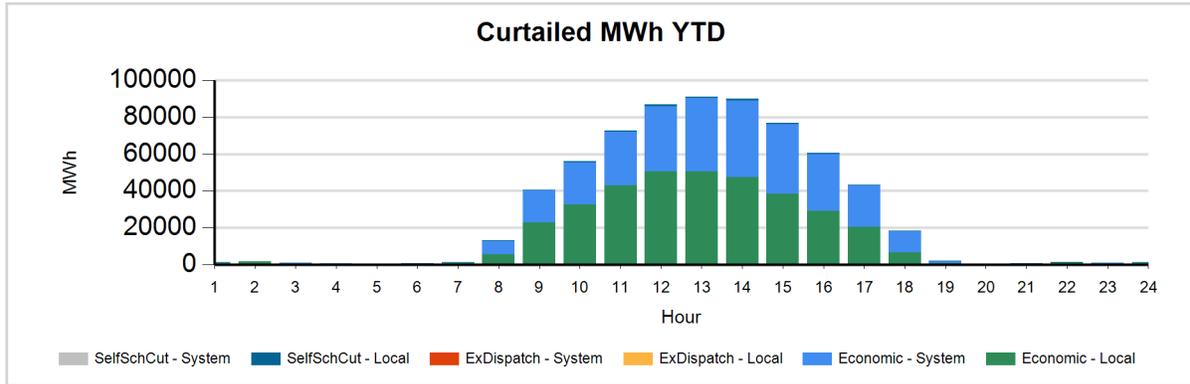
³Congestion occurs when available, least-cost energy cannot be delivered to some loads because transmission facilities do not have sufficient capacity to deliver the energy.

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

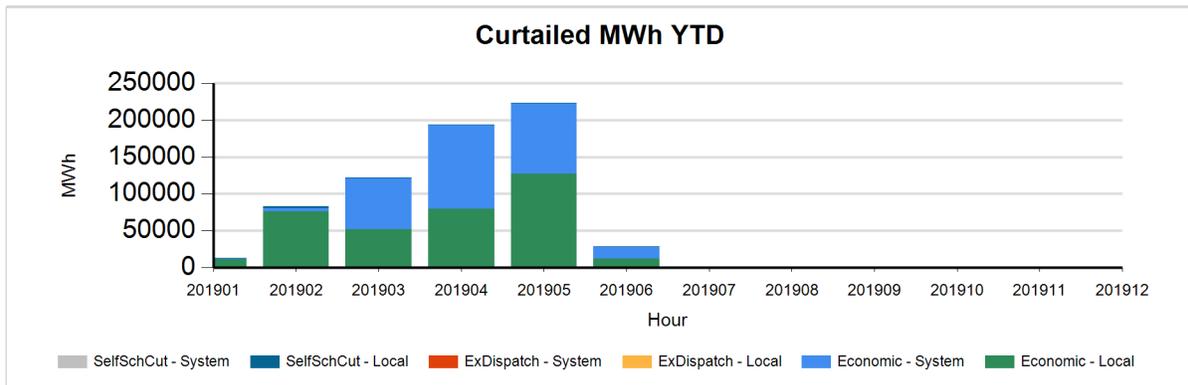
The following charts show the daily and 7-day rolling wind and solar curtailment by category, if any.



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	357,488
LocalSelfSchCut	5,724
SystemEconomic	299,921
TOTAL	663,133

Data used to produce hourly chart

DATE	HOUR	CURT TYPE	REASON	FUEL TYPE	CURTAILED MWH	CURTAILED MW
06/08	3	Economic	Local	WIND	75	121
06/08	4	Economic	Local	WIND	100	120
06/08	5	Economic	Local	WIND	59	74
06/08	6	Economic	Local	SOLR	3	27
06/08	6	Economic	Local	WIND	84	89
06/08	7	Economic	Local	SOLR	27	54
06/08	7	Economic	Local	WIND	96	115
06/08	8	Economic	Local	SOLR	2	3
06/08	8	Economic	Local	WIND	88	93
06/08	8	Economic	System	SOLR	250	821
06/08	8	Economic	System	WIND	1	2
06/08	9	Economic	Local	SOLR	170	1131
06/08	9	Economic	Local	WIND	67	40
06/08	10	Economic	Local	SOLR	16	20
06/08	10	Economic	Local	WIND	87	65
06/08	10	Economic	System	SOLR	953	1405
06/08	10	Economic	System	WIND	3	21
06/08	11	Economic	Local	SOLR	22	23
06/08	11	Economic	System	SOLR	1478	1566
06/08	11	Economic	System	WIND	39	36
06/08	12	Economic	Local	SOLR	35	36
06/08	12	Economic	System	SOLR	1567	1691
06/08	12	Economic	System	WIND	32	35
06/08	13	Economic	Local	SOLR	38	41
06/08	13	Economic	System	SOLR	1262	1460
06/08	13	Economic	System	WIND	4	27
06/08	14	Economic	Local	SOLR	33	29
06/08	14	Economic	System	SOLR	312	823
06/08	14	Economic	System	WIND	3	2
06/08	15	Economic	Local	SOLR	34	17
06/08	15	Economic	System	SOLR	25	228

06/08	15	Economic	System	WIND	1	8
06/08	16	Economic	Local	SOLR	35	34
06/08	16	Economic	System	SOLR	6	12
06/08	17	Economic	Local	SOLR	33	54
06/08	18	Economic	Local	SOLR	12	5
06/08	18	Economic	Local	WIND	11	57
06/08	18	Economic	System	SOLR	6	12
06/08	19	Economic	Local	WIND	52	91
06/08	19	Economic	System	SOLR	3	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 Short-Term Forecasting at ShortTermForecasting@caiso.com.