

Wind and Solar Curtailment September 30, 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.

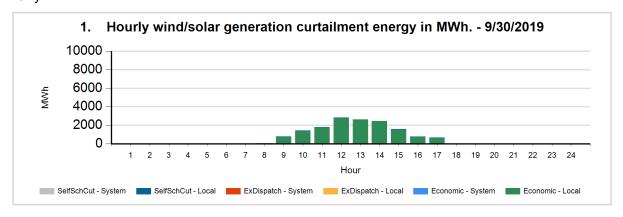
²The Renewables Watch report provides daily actual renewable production within the ISO grid. It is available at: http://www.caiso.com/green/renewableswatch.html.

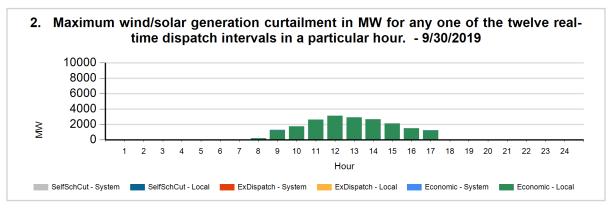
³Congestion occurs when available, least-cost energy cannot be delivered to some loads because transmission facilities do not have sufficient capacity to deliver the energy.

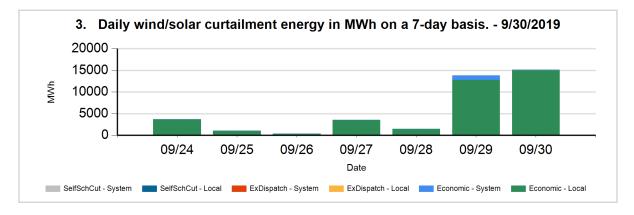
For more information on oversupply conditions, please see: https://www.caiso.com/Documents/FlexibleResourcesHelpRenewables FastFacts.pdf

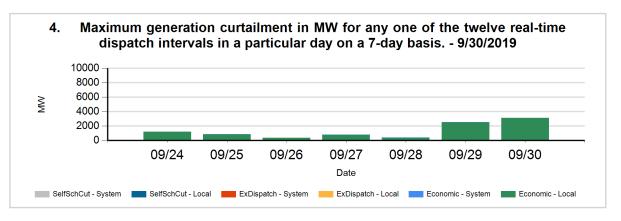


The following charts show the daily and 7-day wind and solar curtailment by category, if any.



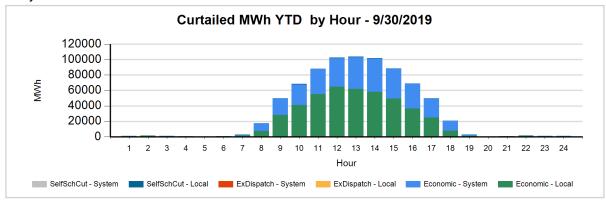




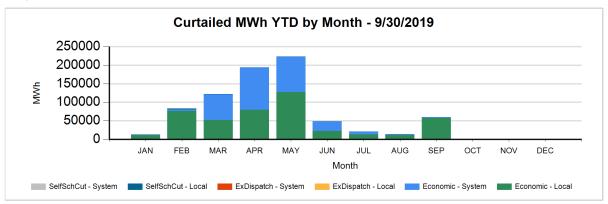




The following charts show hourly year to date wind and solar curtailment by category, if any.



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



TYPE	YTD CURTAILED MWH - 9/30/2019		
LocalEconomic	448,934		
LocalSelfSchCut	6,102		
SystemEconomic	322,944		
TOTAL	777,981		



Data used to produce hourly chart

DATE	HOU R	CURT TYPE	REASON	FUEL TYPE	CURTAILED MWH	CURTAILED MW
09/30	7	Economic	Local	SOLR	2	21
09/30	8	Economic	Local	SOLR	42	166
09/30	8	Economic	Local	WIND	4	29
09/30	9	Economic	Local	SOLR	752	1220
09/30	9	Economic	Local	WIND	20	10
09/30	9	Economic	System	SOLR	4	1
09/30	9	SelfSchCut	Local	SOLR	2	19
09/30	9	SelfSchCut	Local	WIND	2	22
09/30	10	Economic	Local	SOLR	1415	1710
09/30	10	Economic	Local	WIND	35	20
09/30	11	Economic	Local	SOLR	1698	2465
09/30	11	Economic	Local	WIND	82	160
09/30	12	Economic	Local	SOLR	2734	3028
09/30	12	Economic	Local	WIND	101	78
09/30	13	Economic	Local	SOLR	2562	2741
09/30	13	Economic	Local	WIND	80	174
09/30	14	Economic	Local	SOLR	2386	2567
09/30	14	Economic	Local	WIND	64	85
09/30	15	Economic	Local	SOLR	1514	1967
09/30	15	Economic	Local	WIND	83	145
09/30	16	Economic	Local	SOLR	756	1505
09/30	16	Economic	Local	WIND	26	8
09/30	17	Economic	Local	SOLR	615	1215
09/30	17	Economic	Local	WIND	25	32
09/30	17	Economic	System	SOLR	46	5
09/30	18	Economic	Local	SOLR	3	34

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.

