

Wind and Solar Curtailment September 17, 2022

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.
- 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.

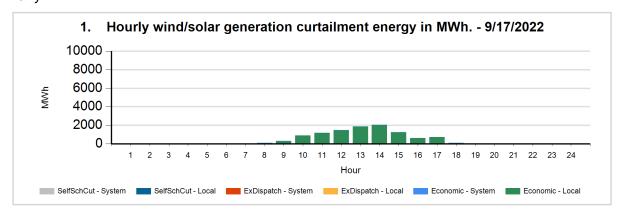
²The Renewables Watch report provides daily actual renewable production within the ISO grid. It is available at: http://www.caiso.com/green/renewableswatch.html.

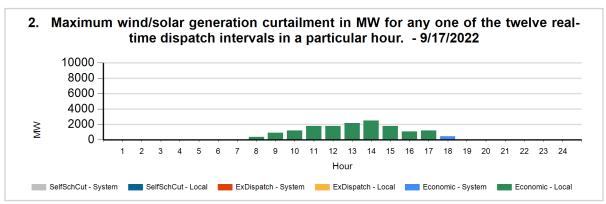
³Congestion occurs when available, least-cost energy cannot be delivered to some loads because transmission facilities do not have sufficient capacity to deliver the energy.

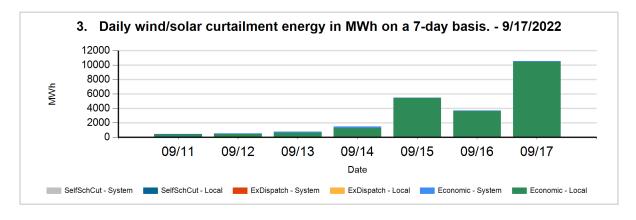
For more information on oversupply conditions, please see: https://www.caiso.com/Documents/FlexibleResourcesHelpRenewables FastFacts.pdf

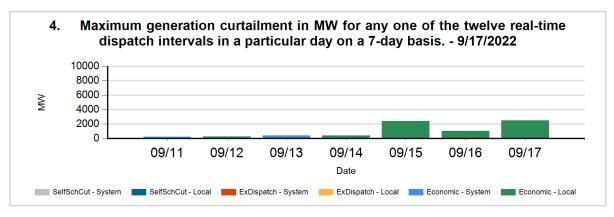


The following charts show the daily and 7-day wind and solar curtailment by category, if any.



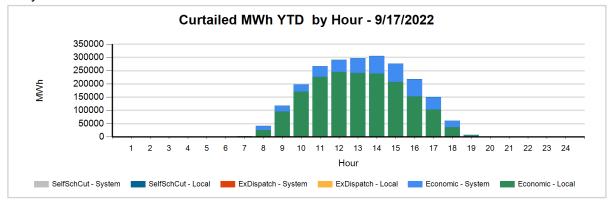




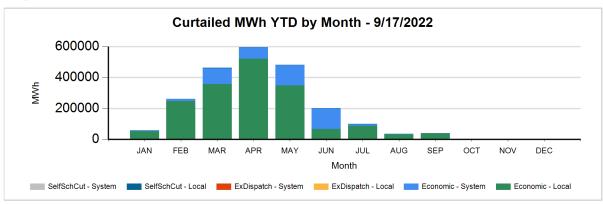




The following charts show hourly year to date wind and solar curtailment by category, if any.



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



TYPE	YTD CURTAILED MWH - 9/17/2022
LocalEconomic	1,746,282
LocalSelfSchCut	5,780
SystemEconomic	483,258
TOTAL	2,235,320



Data used to produce hourly chart

DATE	HOU R	CURT TYPE	REASON	FUEL TYPE	CURTAILED MWH	CURTAILED MW
09/17	8	Economic	Local	SOLR	42	187
09/17	8	Economic	Local	WIND	55	185
09/17	8	Economic	System	SOLR	4	
09/17	9	Economic	Local	SOLR	222	814
09/17	9	Economic	Local	WIND	59	111
09/17	9	Economic	System	SOLR	22	
09/17	9	Economic	System	WIND	19	
09/17	10	Economic	Local	SOLR	779	1060
09/17	10	Economic	Local	WIND	100	157
09/17	11	Economic	Local	SOLR	1032	1633
09/17	11	Economic	Local	WIND	134	146
09/17	11	SelfSchCut	Local	SOLR	2	
09/17	12	Economic	Local	SOLR	1344	1657
09/17	12	Economic	Local	WIND	119	139
09/17	12	Economic	System	WIND	5	
09/17	12	SelfSchCut	Local	SOLR	0	
09/17	13	Economic	Local	SOLR	1737	2039
09/17	13	Economic	Local	WIND	116	130
09/17	13	SelfSchCut	Local	SOLR	2	11
09/17	14	Economic	Local	SOLR	1886	2277
09/17	14	Economic	Local	WIND	157	209
09/17	14	SelfSchCut	Local	SOLR	3	
09/17	15	Economic	Local	SOLR	984	1523
09/17	15	Economic	Local	WIND	246	266
09/17	15	SelfSchCut	Local	SOLR	1	
09/17	16	Economic	Local	SOLR	462	945
09/17	16	Economic	Local	WIND	161	144
09/17	17	Economic	Local	SOLR	534	943
09/17	17	Economic	Local	WIND	185	256
09/17	17	Economic	System	WIND	0	
09/17	18	Economic	Local	SOLR	34	37



09/17	18	Economic	Local	WIND	19	3
09/17	18	Economic	System	SOLR	24	210
09/17	18	Economic	System	WIND	27	207
09/17	19	Economic	Local	SOLR	1	5
09/17	19	Economic	Local	WIND	2	3
09/17	20	Economic	Local	WIND	2	2
09/17	21	Economic	Local	WIND	1	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.