

## Wind and Solar Curtailment August 08, 2021

This report is produced daily to provide a detailed accounting of the wind and solar renewable generation that was curtailed and the reasons why<sup>1</sup>. This report should be read in the context of the Renewables Watch report for a more complete understanding of both renewable curtailment and generation<sup>2</sup>.

Wind and solar curtailments are grouped into the following categories:

- 1. Economic Local: Market dispatch of generators with economic bids to mitigate local congestion<sup>3</sup>.
- 2. Economic System: Market dispatch of generators with economic bids to mitigate systemwide 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.

<sup>1</sup>Only 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.

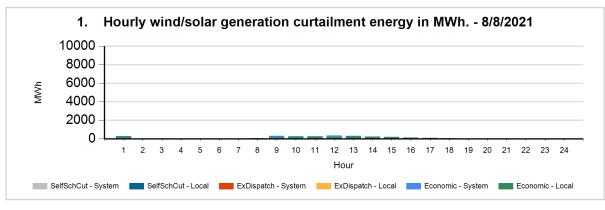
<sup>2</sup>The Renewables Watch report provides daily actual renewable production within the ISO grid. It is available at: <u>http://www.caiso.com/green/renewableswatch.html</u>.

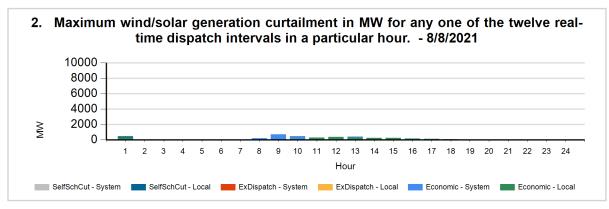
<sup>3</sup>Congestion occurs when available, least-cost energy cannot be delivered to some loads because transmission facilities do not have sufficient capacity to deliver the energy.

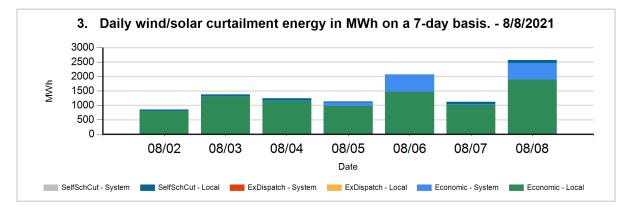
For more information on oversupply conditions, please see: <u>https://www.caiso.com/Documents/FlexibleResourcesHelpRenewables\_FastFacts.pdf</u>

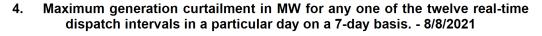


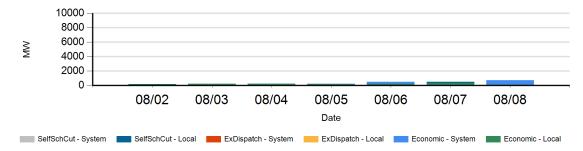
The following charts show the daily and 7-day wind and solar curtailment by category, if any.





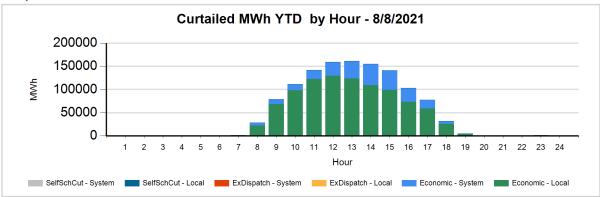




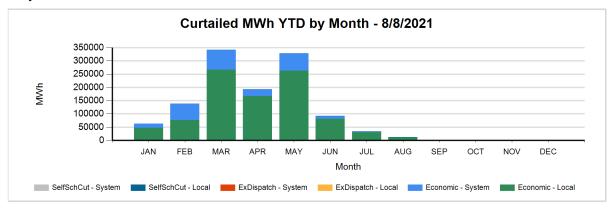




The following charts show hourly year to date wind and solar curtailment by category, if any.



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



TYPE	YTD CURTAILED MWH - 8/8/2021
LocalEconomic	939,951
LocalSelfSchCut	4,842
SystemEconomic	256,297
TOTAL	1,201,089



## Data used to produce hourly chart

DATE	HOU R	CURT TYPE	REASON	FUEL TYPE	CURTAILED MWH	CURTAILED MW
08/08	1	Economic	Local	WIND	188	277
08/08	1	Economic	System	WIND	2	
08/08	1	SelfSchCut	Local	WIND	78	185
08/08	7	Economic	System	SOLR	3	20
08/08	8	Economic	Local	SOLR	3	
08/08	8	Economic	System	SOLR	40	176
08/08	8	Economic	System	WIND	5	34
08/08	8	SelfSchCut	Local	SOLR	2	
08/08	9	Economic	Local	SOLR	118	73
08/08	9	Economic	Local	WIND	3	
08/08	9	Economic	System	SOLR	180	593
08/08	9	Economic	System	WIND	6	22
08/08	9	SelfSchCut	Local	SOLR	10	
08/08	10	Economic	Local	SOLR	135	76
08/08	10	Economic	System	SOLR	120	337
08/08	10	Economic	System	WIND	7	33
08/08	10	SelfSchCut	Local	SOLR	1	15
08/08	11	Economic	Local	SOLR	230	297
08/08	11	Economic	System	SOLR	49	
08/08	12	Economic	Local	SOLR	221	350
08/08	12	Economic	System	SOLR	106	
08/08	12	SelfSchCut	Local	SOLR	10	
08/08	13	Economic	Local	SOLR	252	287
08/08	13	Economic	System	SOLR	57	137
08/08	13	SelfSchCut	Local	SOLR	4	
08/08	14	Economic	Local	SOLR	227	256
08/08	15	Economic	Local	SOLR	219	262
08/08	16	Economic	Local	SOLR	124	141
08/08	17	Economic	Local	SOLR	91	122
08/08	18	Economic	Local	SOLR	73	97
08/08	24	Economic	Local	WIND	1	12



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.