

## Wind and Solar Curtailment June 19, 2024

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 congestion<sup>3</sup>.
- 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.

<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.

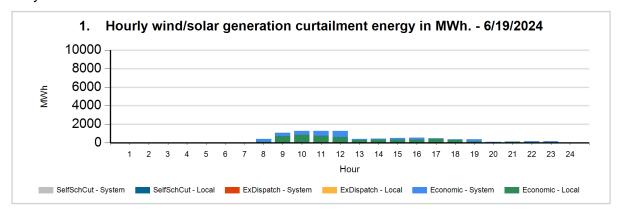
<sup>2</sup>The Renewables Watch report provides daily actual renewable production within the ISO grid. It is available at: <a href="http://www.caiso.com/green/renewableswatch.html">http://www.caiso.com/green/renewableswatch.html</a>.

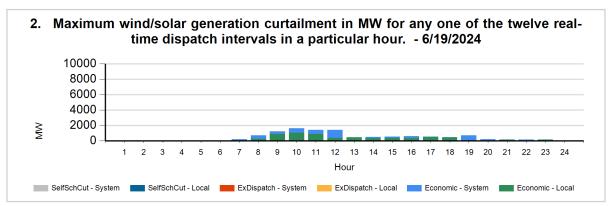
<sup>3</sup>Congestion occurs when available, least-cost energy cannot be delivered to some loads because transmission facilities do not have sufficient capacity to deliver the energy.

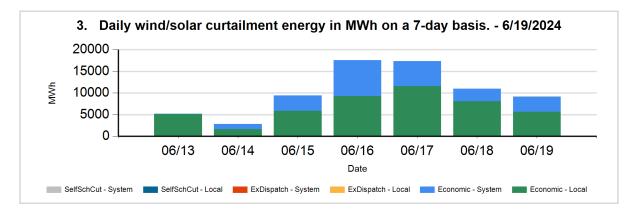
For more information on oversupply conditions, please see: <a href="https://www.caiso.com/Documents/FlexibleResourcesHelpRenewables">https://www.caiso.com/Documents/FlexibleResourcesHelpRenewables</a> FastFacts.pdf

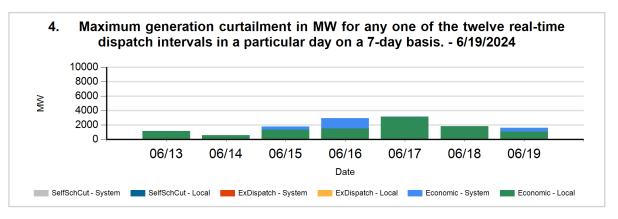


The following charts show the daily and 7-day wind and solar curtailment by category, if any.



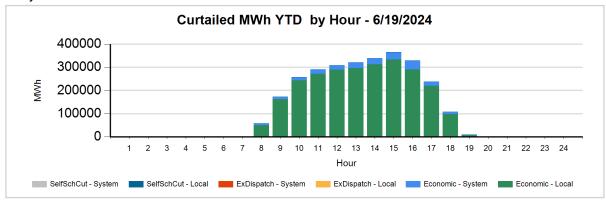




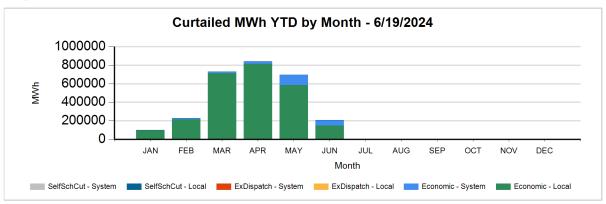




The following charts show hourly year to date wind and solar curtailment by category, if any.



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



TYPE	YTD CURTAILED MWH - 6/19/2024
LocalEconomic	2,574,873
LocalSelfSchCut	1,575
SystemEconomic	226,961
TOTAL	2,803,409



## Data used to produce hourly chart

DATE	HOU R	CURT TYPE	REASON	FUEL TYPE	CURTAILED MWH	CURTAILED MW
06/19	7	Economic	Local	SOLR	7	61
06/19	7	Economic	Local	WIND	11	4
06/19	7	Economic	System	SOLR	4	21
06/19	7	Economic	System	WIND	11	129
06/19	8	Economic	Local	SOLR	96	257
06/19	8	Economic	Local	WIND	2	
06/19	8	Economic	System	SOLR	166	285
06/19	8	Economic	System	WIND	142	144
06/19	9	Economic	Local	SOLR	727	859
06/19	9	Economic	Local	WIND	6	6
06/19	9	Economic	System	SOLR	190	200
06/19	9	Economic	System	WIND	153	144
06/19	9	SelfSchCut	Local	SOLR	2	9
06/19	10	Economic	Local	SOLR	847	1046
06/19	10	Economic	Local	WIND	6	7
06/19	10	Economic	System	SOLR	315	443
06/19	10	Economic	System	WIND	120	109
06/19	11	Economic	Local	SOLR	768	859
06/19	11	Economic	Local	WIND	2	
06/19	11	Economic	System	SOLR	424	447
06/19	11	Economic	System	WIND	98	123
06/19	12	Economic	Local	SOLR	603	361
06/19	12	Economic	Local	WIND	12	
06/19	12	Economic	System	SOLR	555	952
06/19	12	Economic	System	WIND	94	100
06/19	13	Economic	Local	SOLR	295	325
06/19	13	Economic	Local	WIND	28	125
06/19	13	Economic	System	SOLR	16	
06/19	13	Economic	System	WIND	76	
06/19	14	Economic	Local	SOLR	317	318
06/19	14	Economic	Local	WIND	11	



06/19	14	Economic	System	SOLR	12	21
06/19	14	Economic	System	WIND	123	149
06/19	15	Economic	Local	SOLR	342	352
06/19	15	Economic	Local	WIND	15	
06/19	15	Economic	System	SOLR	13	22
06/19	15	Economic	System	WIND	150	178
06/19	16	Economic	Local	SOLR	334	345
06/19	16	Economic	Local	WIND	16	
06/19	16	Economic	System	SOLR	19	23
06/19	16	Economic	System	WIND	188	201
06/19	16	SelfSchCut	Local	SOLR	0	5
06/19	17	Economic	Local	SOLR	304	351
06/19	17	Economic	Local	WIND	191	193
06/19	17	Economic	System	WIND	1	9
06/19	18	Economic	Local	SOLR	168	264
06/19	18	Economic	Local	WIND	143	200
06/19	18	Economic	System	SOLR	1	
06/19	18	Economic	System	WIND	48	
06/19	18	SelfSchCut	Local	SOLR	0	1
06/19	19	Economic	Local	SOLR	81	74
06/19	19	Economic	Local	WIND	38	
06/19	19	Economic	System	SOLR	116	290
06/19	19	Economic	System	WIND	154	339
06/19	20	Economic	Local	SOLR	4	
06/19	20	Economic	Local	WIND	14	
06/19	20	Economic	System	SOLR	8	51
06/19	20	Economic	System	WIND	66	154
06/19	21	Economic	Local	WIND	102	166
06/19	21	Economic	System	WIND	46	
06/19	22	Economic	Local	WIND	66	
06/19	22	Economic	System	WIND	96	175
06/19	23	Economic	Local	WIND	77	161
06/19	23	Economic	System	WIND	80	
06/19	24	Economic	Local	WIND	0	1



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.