

Wind and Solar Curtailment June 09, 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 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.

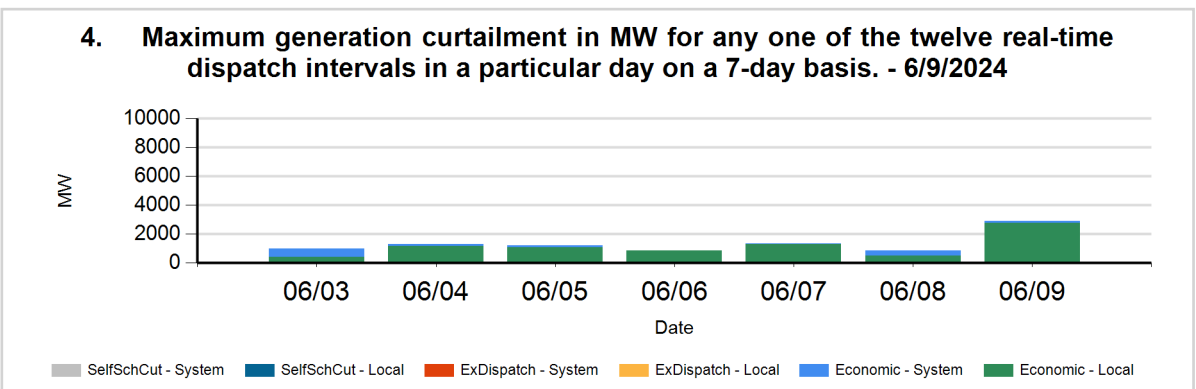
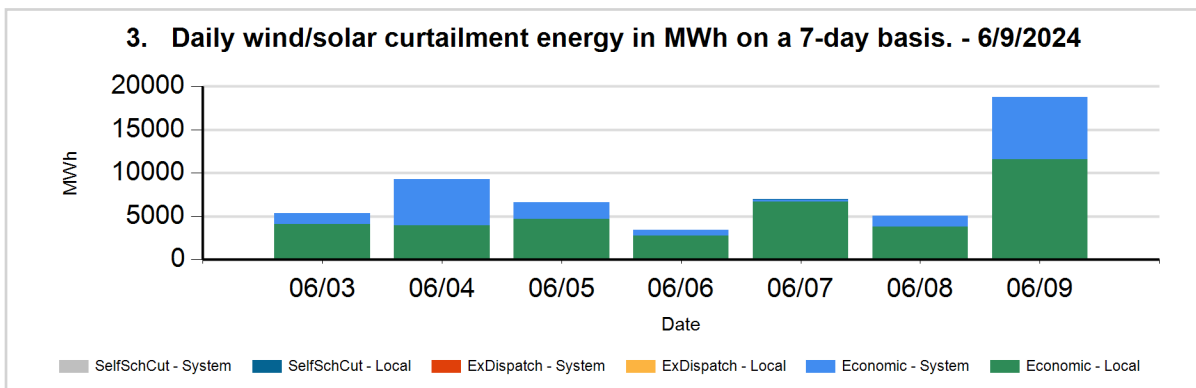
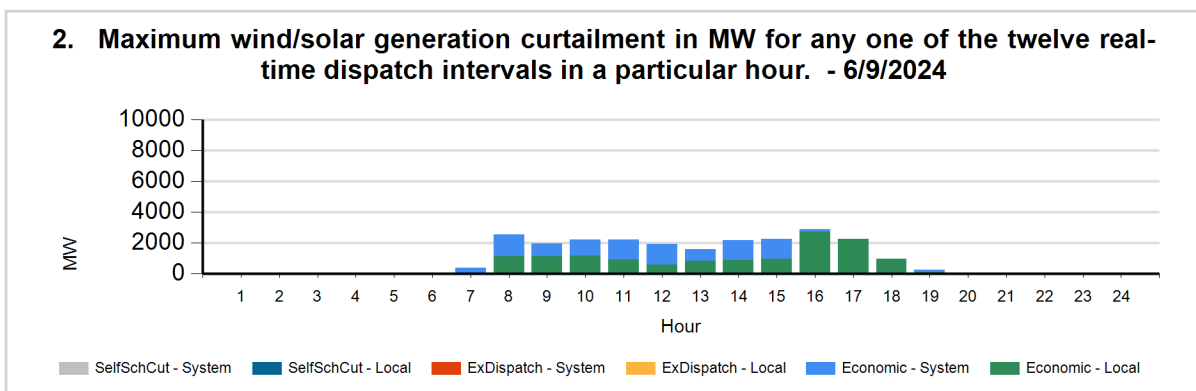
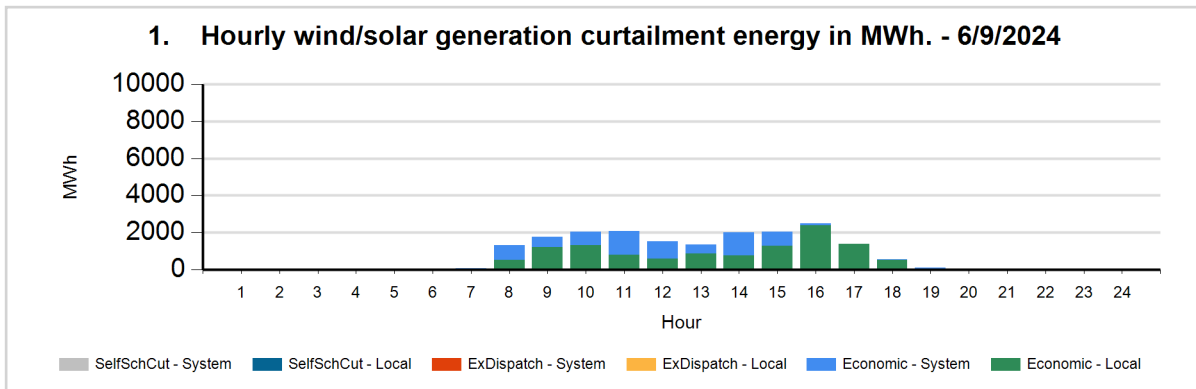
¹Only wind and solar resources can be reported in this manner because these resources have a forecast. Curtailment is defined as the difference between actual production and the forecast when actual production is less than the forecast.

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

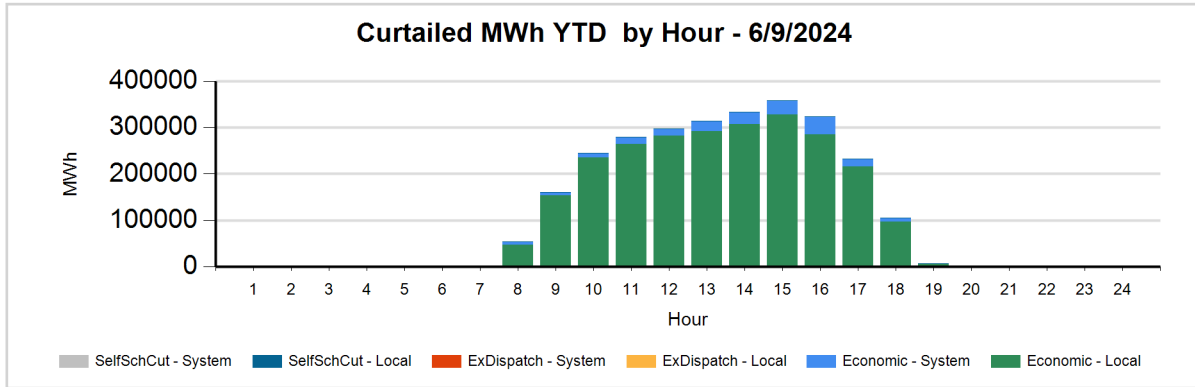
³Congestion occurs when available, least-cost energy cannot be delivered to some loads because transmission facilities do not have sufficient capacity to deliver the energy.

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

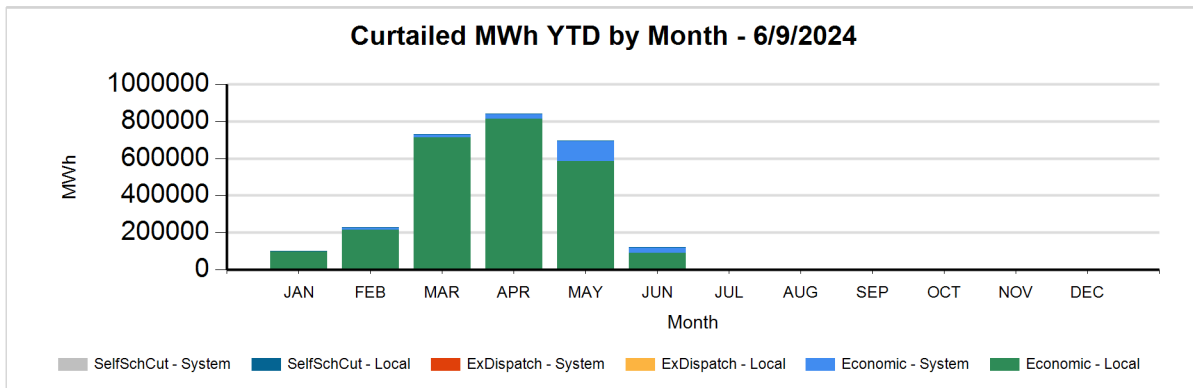
The following charts show the daily and 7-day wind and solar curtailment by category, if any.



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 - 6/9/2024
LocalEconomic	2,517,376
LocalSelfSchCut	1,572
SystemEconomic	198,148
TOTAL	2,717,096

Data used to produce hourly chart

DATE	HOUR	CURT TYPE	REASON	FUEL TYPE	CURTAILED MWH	CURTAILED MW
06/09	7	Economic	Local	SOLR	1	
06/09	7	Economic	System	SOLR	58	310
06/09	7	Economic	System	WIND	14	43
06/09	8	Economic	Local	SOLR	531	1129
06/09	8	Economic	System	SOLR	597	1101
06/09	8	Economic	System	WIND	171	322
06/09	9	Economic	Local	SOLR	1120	1136
06/09	9	Economic	Local	WIND	72	
06/09	9	Economic	System	SOLR	400	593
06/09	9	Economic	System	WIND	186	225
06/09	10	Economic	Local	SOLR	1244	1180
06/09	10	Economic	Local	WIND	60	
06/09	10	Economic	System	SOLR	560	765
06/09	10	Economic	System	WIND	180	251
06/09	11	Economic	Local	SOLR	783	914
06/09	11	Economic	System	SOLR	1085	1096
06/09	11	Economic	System	WIND	218	217
06/09	12	Economic	Local	SOLR	559	576
06/09	12	Economic	Local	WIND	13	
06/09	12	Economic	System	SOLR	777	1134
06/09	12	Economic	System	WIND	158	191
06/09	13	Economic	Local	SOLR	842	812
06/09	13	Economic	Local	WIND	16	
06/09	13	Economic	System	SOLR	366	592
06/09	13	Economic	System	WIND	126	191
06/09	14	Economic	Local	SOLR	748	861
06/09	14	Economic	System	SOLR	1076	1124
06/09	14	Economic	System	WIND	194	196
06/09	15	Economic	Local	SOLR	1198	964
06/09	15	Economic	Local	WIND	75	
06/09	15	Economic	System	SOLR	605	1054

06/09	15	Economic	System	WIND	166	230
06/09	16	Economic	Local	SOLR	1965	2183
06/09	16	Economic	Local	WIND	413	542
06/09	16	Economic	System	SOLR	105	161
06/09	16	Economic	System	WIND	21	
06/09	17	Economic	Local	SOLR	1185	1834
06/09	17	Economic	Local	WIND	188	399
06/09	18	Economic	Local	SOLR	502	833
06/09	18	Economic	Local	WIND	17	124
06/09	18	Economic	System	SOLR	30	
06/09	19	Economic	Local	SOLR	43	77
06/09	19	Economic	System	SOLR	36	121
06/09	19	Economic	System	WIND	5	39

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.