

Wind and Solar Curtailment October 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.

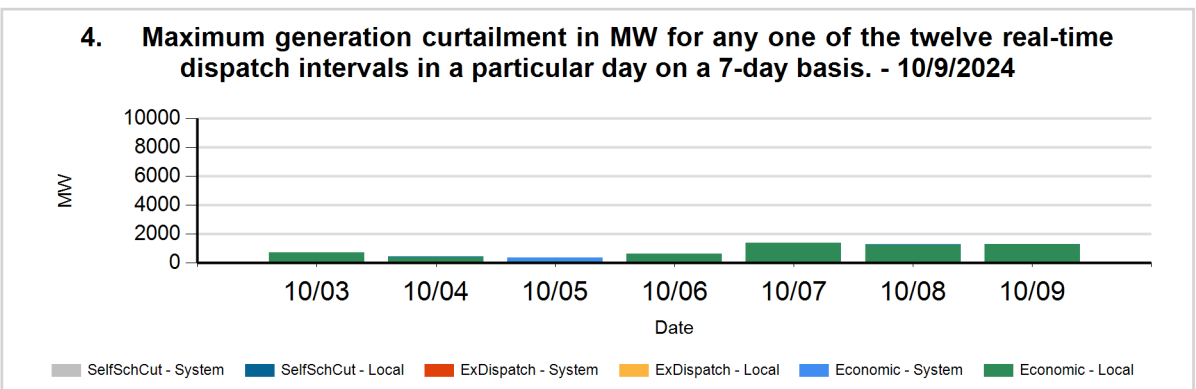
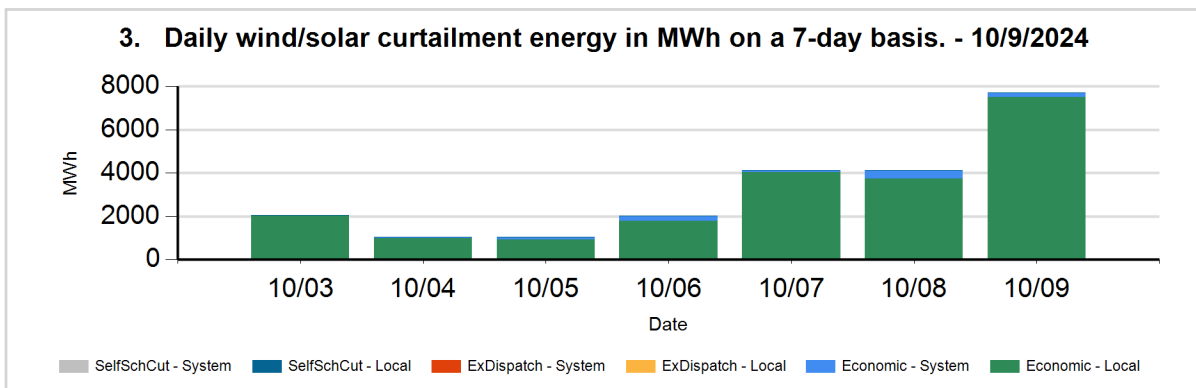
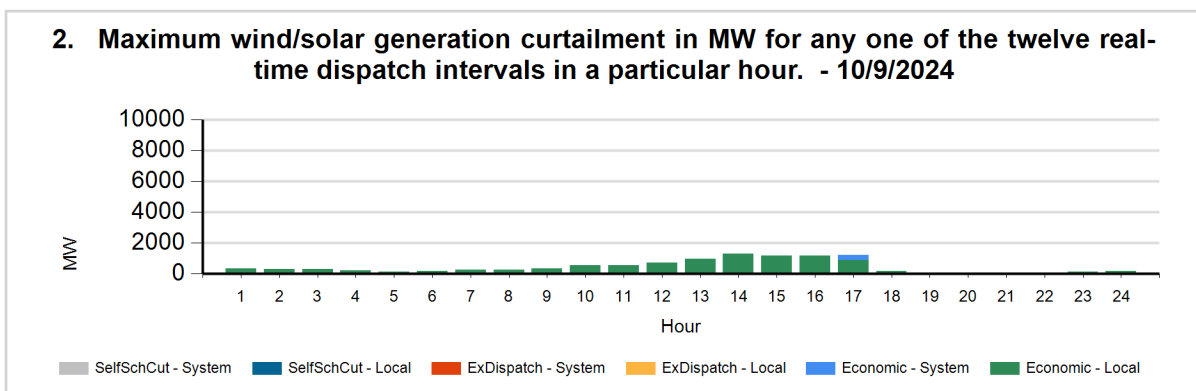
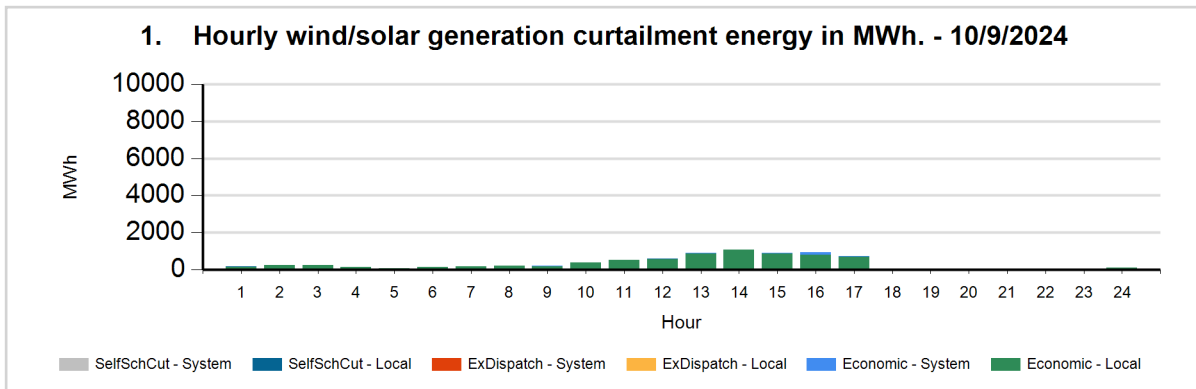
¹Only wind and solar resources can be reported in this manner because these resources have a forecast. Curtailment is defined as the difference between actual production and the forecast when actual production is less than the forecast.

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

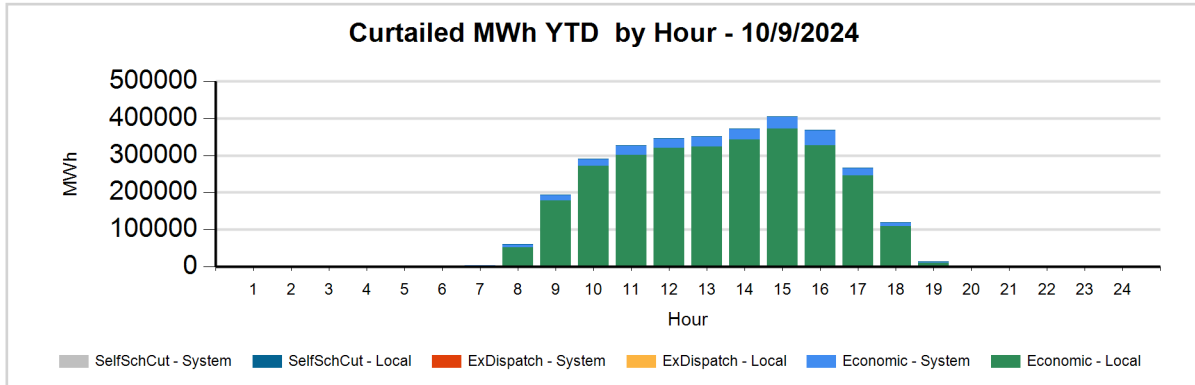
³Congestion occurs when available, least-cost energy cannot be delivered to some loads because transmission facilities do not have sufficient capacity to deliver the energy.

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

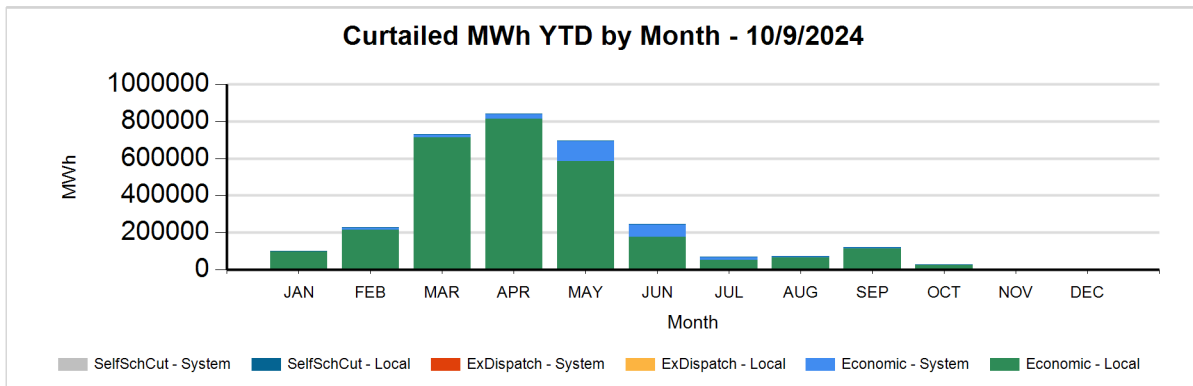
The following charts show the daily and 7-day wind and solar curtailment by category, if any.



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 - 10/9/2024
LocalEconomic	2,857,251
LocalSelfSchCut	2,333
SystemEconomic	268,843
TOTAL	3,128,427

Data used to produce hourly chart

DATE	HOUR	CURT TYPE	REASON	FUEL TYPE	CURTAILED MWH	CURTAILED MW
10/09	1	Economic	Local	WIND	162	312
10/09	1	SelfSchCut	Local	WIND	1	
10/09	2	Economic	Local	WIND	236	267
10/09	3	Economic	Local	WIND	232	283
10/09	4	Economic	Local	WIND	150	214
10/09	5	Economic	Local	WIND	58	108
10/09	6	Economic	Local	WIND	131	180
10/09	7	Economic	Local	WIND	186	240
10/09	8	Economic	Local	WIND	200	232
10/09	9	Economic	Local	SOLR	112	303
10/09	9	Economic	Local	WIND	75	20
10/09	9	Economic	System	SOLR	3	
10/09	10	Economic	Local	SOLR	363	525
10/09	10	Economic	Local	WIND	1	
10/09	11	Economic	Local	SOLR	520	552
10/09	12	Economic	Local	SOLR	584	707
10/09	12	SelfSchCut	Local	SOLR	1	
10/09	13	Economic	Local	SOLR	878	956
10/09	13	Economic	Local	WIND	5	
10/09	13	Economic	System	WIND	3	
10/09	14	Economic	Local	SOLR	1076	1273
10/09	15	Economic	Local	SOLR	899	1143
10/09	15	Economic	System	SOLR	2	
10/09	16	Economic	Local	SOLR	799	1182
10/09	16	Economic	System	SOLR	122	
10/09	17	Economic	Local	SOLR	671	884
10/09	17	Economic	Local	WIND	1	2
10/09	17	Economic	System	SOLR	53	305
10/09	18	Economic	Local	SOLR	37	149
10/09	21	Economic	Local	WIND	3	34
10/09	22	Economic	Local	WIND	7	27
10/09	23	Economic	Local	WIND	23	128
10/09	24	Economic	Local	WIND	104	154



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.