

Wind and Solar Curtailment August 24, 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 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.

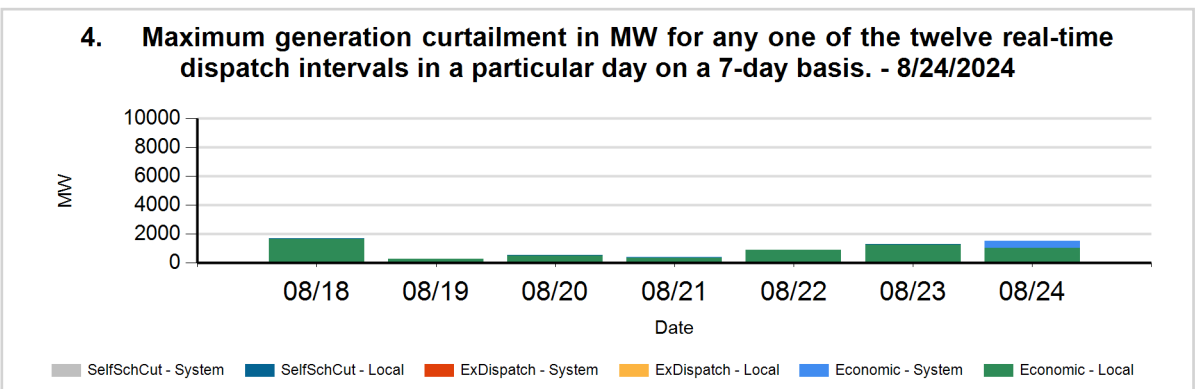
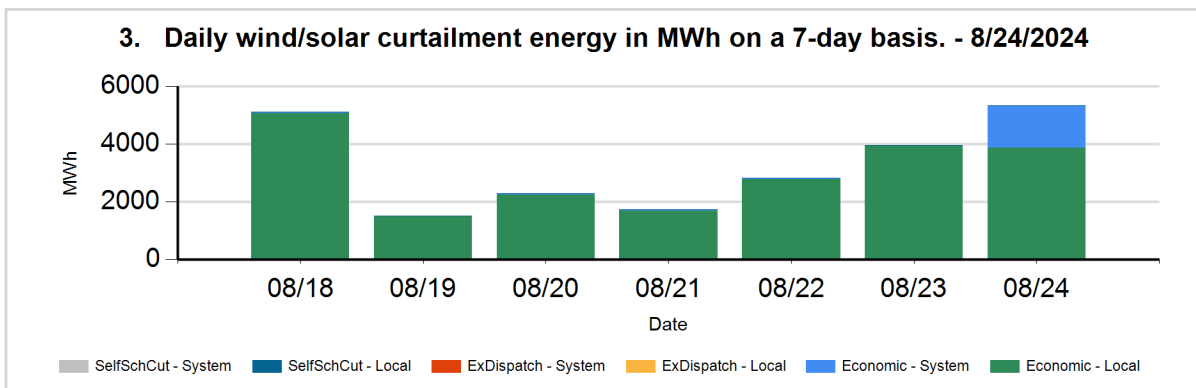
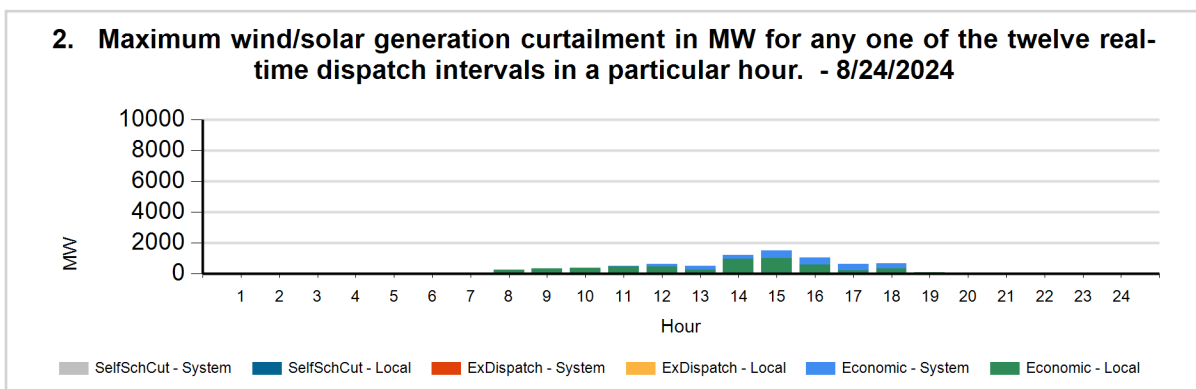
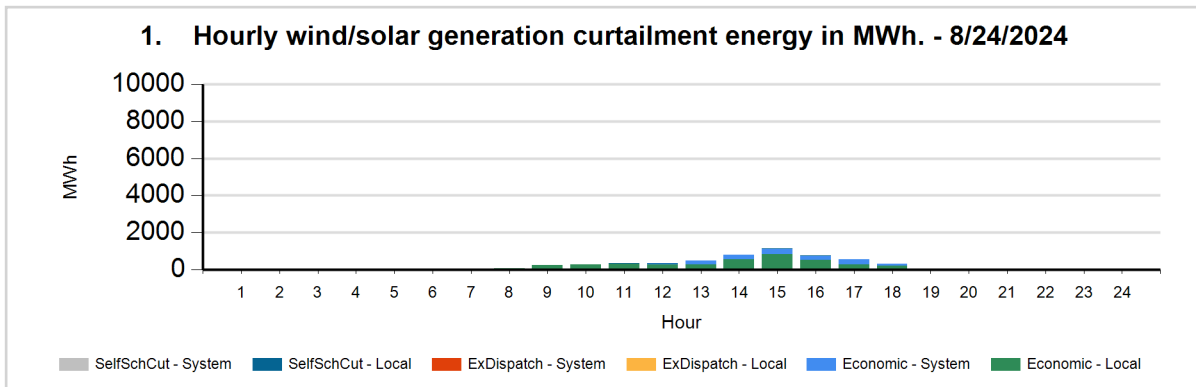
¹Only wind and solar resources can be reported in this manner because these resources have a forecast. Curtailment is defined as the difference between actual production and the forecast when actual production is less than the forecast.

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

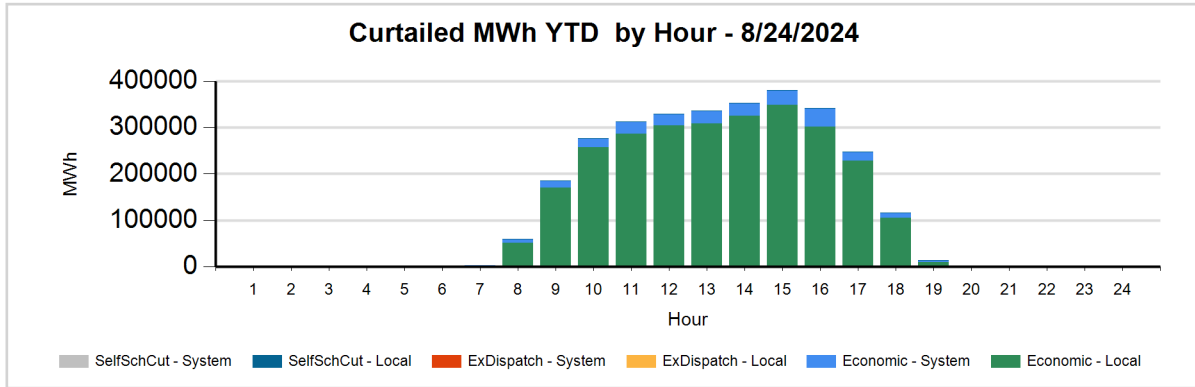
³Congestion occurs when available, least-cost energy cannot be delivered to some loads because transmission facilities do not have sufficient capacity to deliver the energy.

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

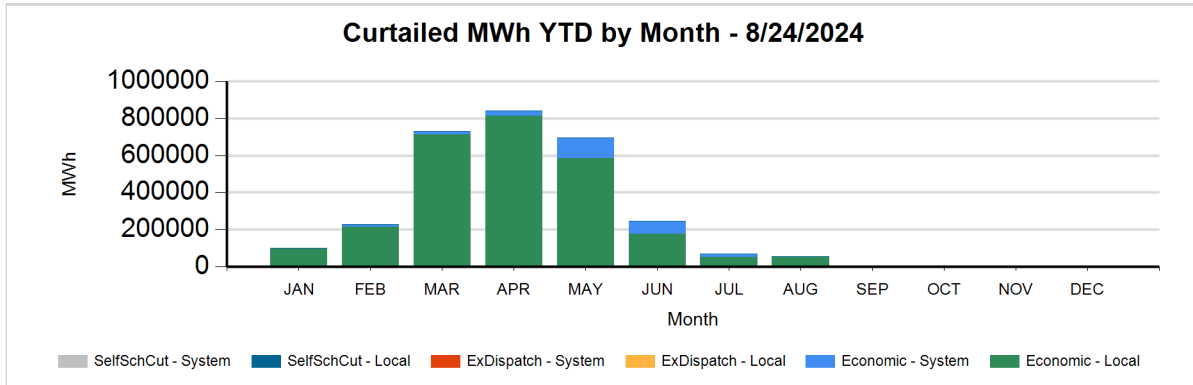
The following charts show the daily and 7-day wind and solar curtailment by category, if any.



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 - 8/24/2024
LocalEconomic	2,702,852
LocalSelfSchCut	2,011
SystemEconomic	259,696
TOTAL	2,964,558

Data used to produce hourly chart

DATE	HOUR	CURT TYPE	REASON	FUEL TYPE	CURTAILED MWH	CURTAILED MW
08/24	8	Economic	Local	SOLR	76	245
08/24	8	Economic	Local	WIND	0	
08/24	9	Economic	Local	SOLR	241	324
08/24	10	Economic	Local	SOLR	274	377
08/24	10	Economic	System	SOLR	0	
08/24	11	Economic	Local	SOLR	332	482
08/24	11	Economic	System	SOLR	1	15
08/24	11	SelfSchCut	Local	SOLR	3	
08/24	12	Economic	Local	SOLR	309	439
08/24	12	Economic	System	SOLR	13	159
08/24	12	Economic	System	WIND	0	5
08/24	12	SelfSchCut	Local	SOLR	2	
08/24	13	Economic	Local	SOLR	269	241
08/24	13	Economic	Local	WIND	3	
08/24	13	Economic	System	SOLR	189	235
08/24	13	Economic	System	WIND	23	18
08/24	14	Economic	Local	SOLR	563	950
08/24	14	Economic	Local	WIND	1	
08/24	14	Economic	System	SOLR	223	242
08/24	14	Economic	System	WIND	19	18
08/24	15	Economic	Local	SOLR	809	1010
08/24	15	Economic	Local	WIND	5	
08/24	15	Economic	System	SOLR	321	468
08/24	15	Economic	System	WIND	14	17
08/24	15	SelfSchCut	Local	SOLR	2	
08/24	16	Economic	Local	SOLR	501	598
08/24	16	Economic	Local	WIND	4	
08/24	16	Economic	System	SOLR	228	432
08/24	16	Economic	System	WIND	12	19
08/24	16	SelfSchCut	Local	SOLR	1	
08/24	17	Economic	Local	SOLR	260	194

08/24	17	Economic	Local	WIND	3	
08/24	17	Economic	System	SOLR	277	391
08/24	17	Economic	System	WIND	22	29
08/24	18	Economic	Local	SOLR	183	346
08/24	18	Economic	Local	WIND	7	
08/24	18	Economic	System	SOLR	107	271
08/24	18	Economic	System	WIND	10	29
08/24	19	Economic	Local	SOLR	26	62

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.