

Wind and Solar Curtailment September 17, 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.

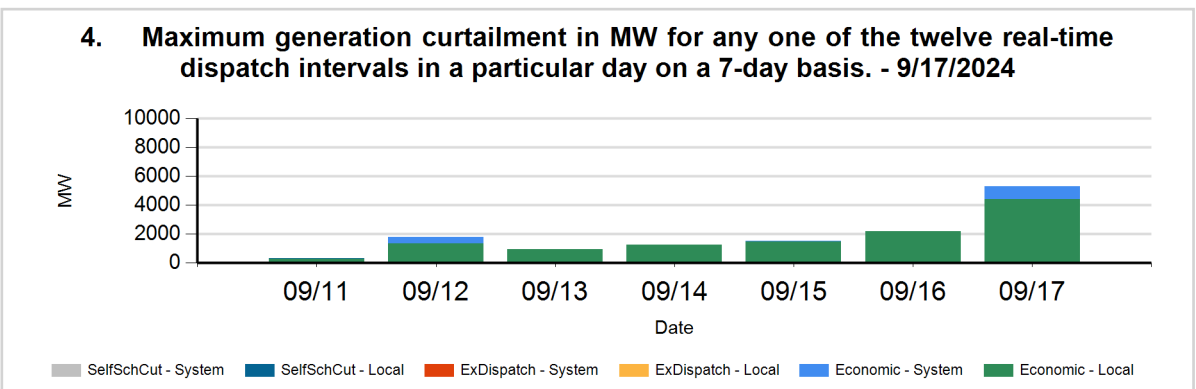
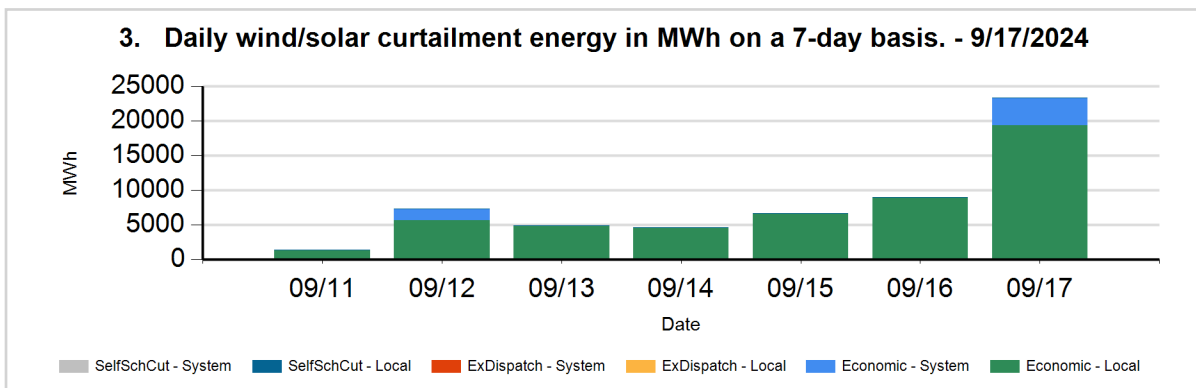
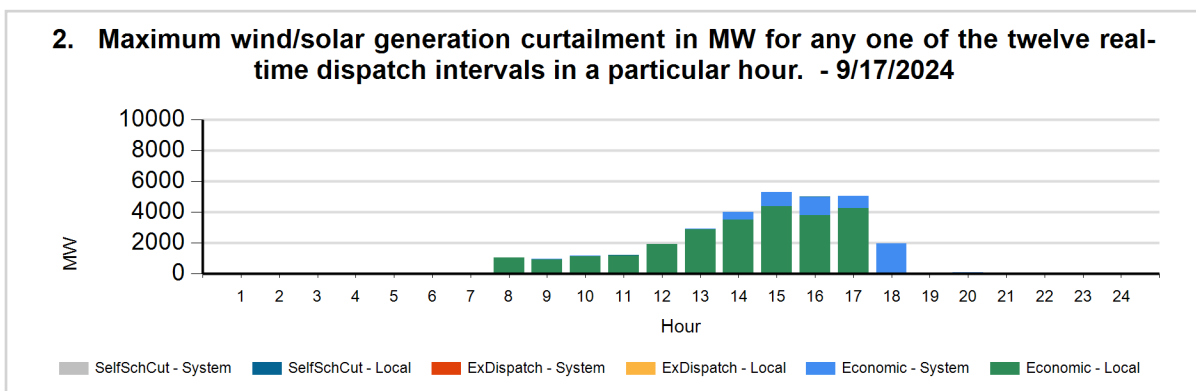
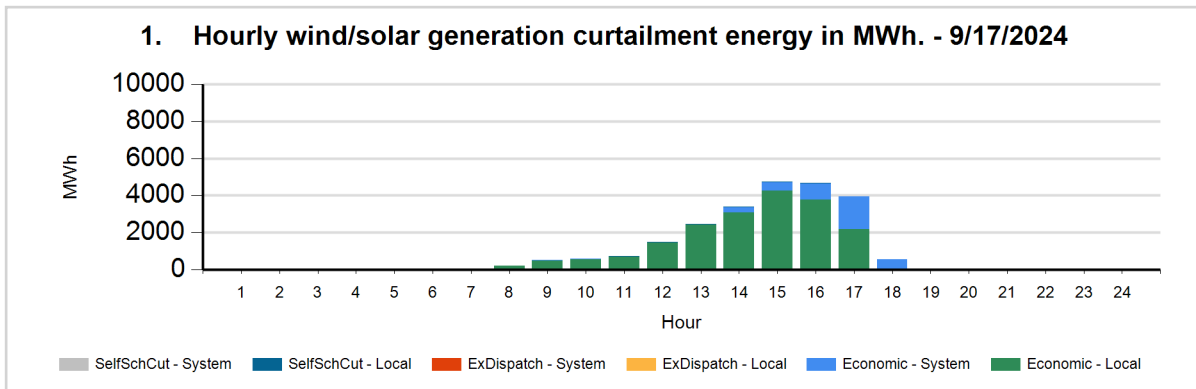
¹Only wind and solar resources can be reported in this manner because these resources have a forecast. Curtailment is defined as the difference between actual production and the forecast when actual production is less than the forecast.

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

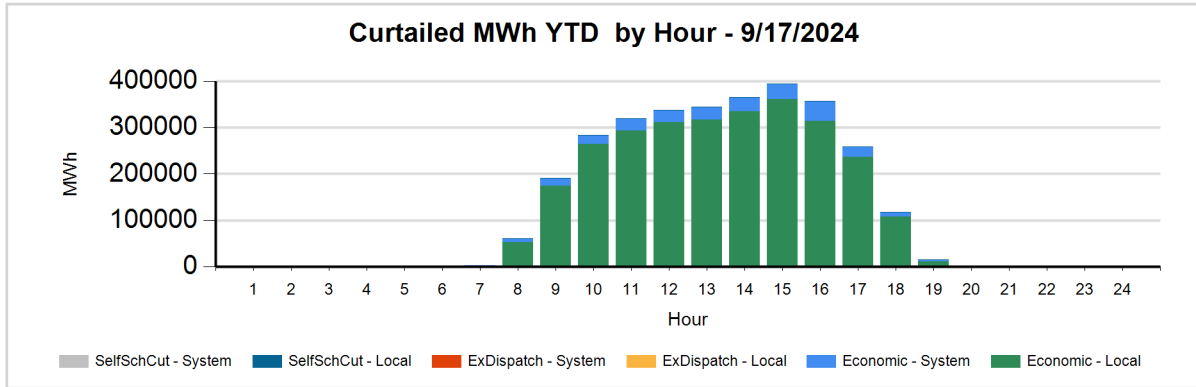
³Congestion occurs when available, least-cost energy cannot be delivered to some loads because transmission facilities do not have sufficient capacity to deliver the energy.

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

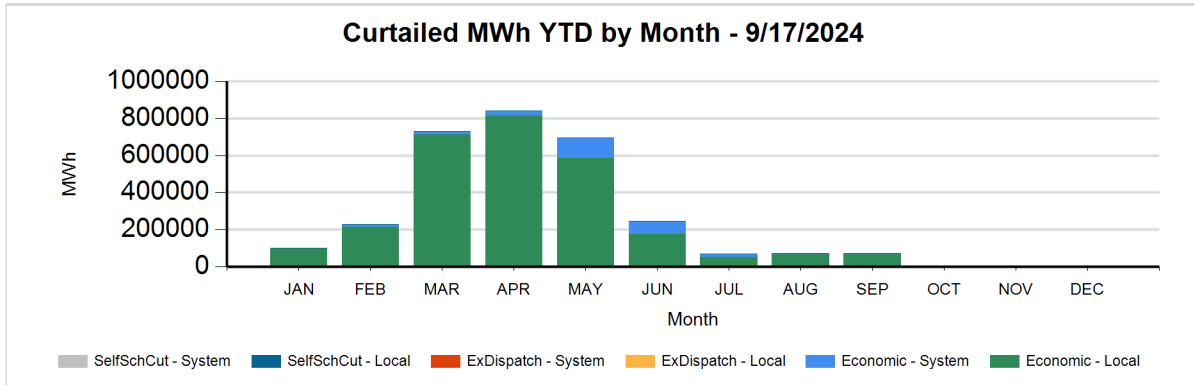
The following charts show the daily and 7-day wind and solar curtailment by category, if any.



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 - 9/17/2024
LocalEconomic	2,783,314
LocalSelfSchCut	2,146
SystemEconomic	267,338
TOTAL	3,052,798

Data used to produce hourly chart

DATE	HOUR	CURT TYPE	REASON	FUEL TYPE	CURTAILED MWH	CURTAILED MW
09/17	1	Economic	System	WIND	2	22
09/17	8	Economic	Local	SOLR	178	956
09/17	8	Economic	Local	WIND	16	67
09/17	9	Economic	Local	SOLR	462	853
09/17	9	Economic	Local	WIND	43	93
09/17	9	Economic	System	SOLR	5	7
09/17	10	Economic	Local	SOLR	586	1087
09/17	10	Economic	Local	WIND	13	55
09/17	10	Economic	System	SOLR	1	5
09/17	11	Economic	Local	SOLR	734	1173
09/17	11	Economic	Local	WIND	2	26
09/17	11	SelfSchCut	Local	SOLR	2	7
09/17	12	Economic	Local	SOLR	1463	1882
09/17	12	Economic	Local	WIND	17	36
09/17	12	SelfSchCut	Local	SOLR	4	
09/17	13	Economic	Local	SOLR	2396	2796
09/17	13	Economic	Local	WIND	51	73
09/17	13	Economic	System	SOLR	5	52
09/17	13	SelfSchCut	Local	SOLR	3	
09/17	14	Economic	Local	SOLR	2984	3312
09/17	14	Economic	Local	WIND	110	207
09/17	14	Economic	System	SOLR	287	499
09/17	14	SelfSchCut	Local	SOLR	4	
09/17	15	Economic	Local	SOLR	3988	4064
09/17	15	Economic	Local	WIND	271	306
09/17	15	Economic	System	SOLR	466	853
09/17	15	Economic	System	WIND	13	71
09/17	15	SelfSchCut	Local	SOLR	1	
09/17	16	Economic	Local	SOLR	3481	3490
09/17	16	Economic	Local	WIND	285	308
09/17	16	Economic	System	SOLR	831	1115

09/17	16	Economic	System	WIND	69	77
09/17	16	SelfSchCut	Local	SOLR	1	2
09/17	17	Economic	Local	SOLR	2053	4050
09/17	17	Economic	Local	WIND	137	210
09/17	17	Economic	System	SOLR	1573	548
09/17	17	Economic	System	WIND	194	217
09/17	18	Economic	Local	SOLR	45	34
09/17	18	Economic	System	SOLR	458	1699
09/17	18	Economic	System	WIND	53	213
09/17	20	Economic	System	WIND	7	60

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.