

Wind and Solar Curtailment February 27, 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.

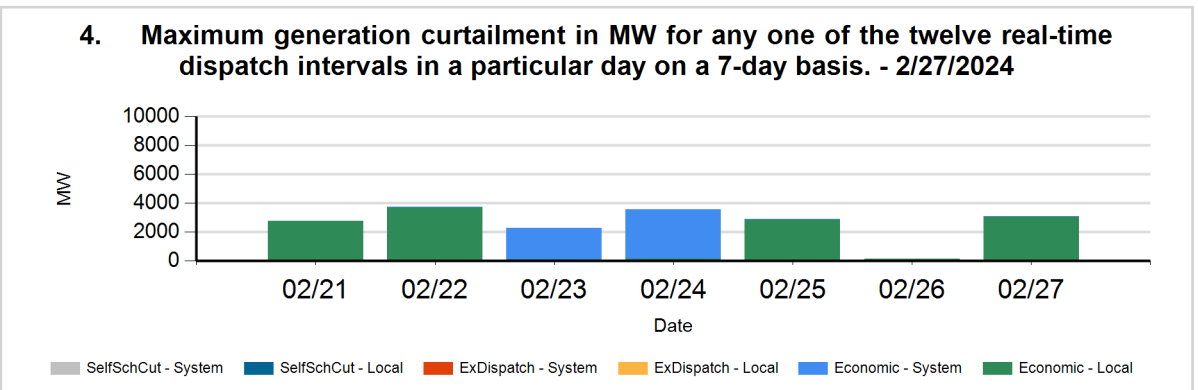
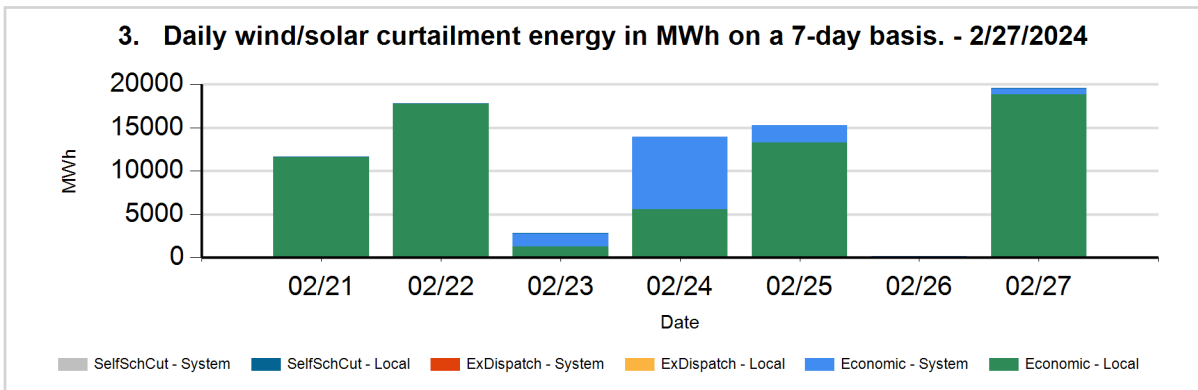
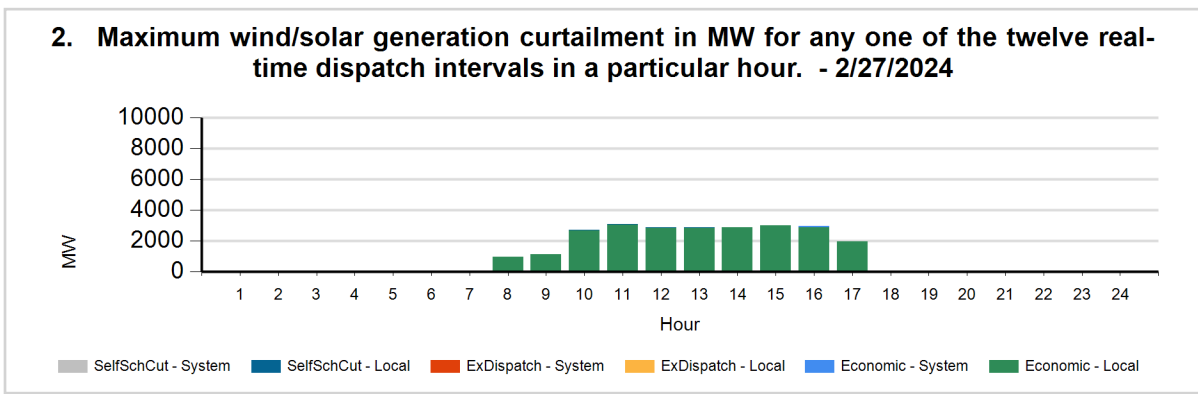
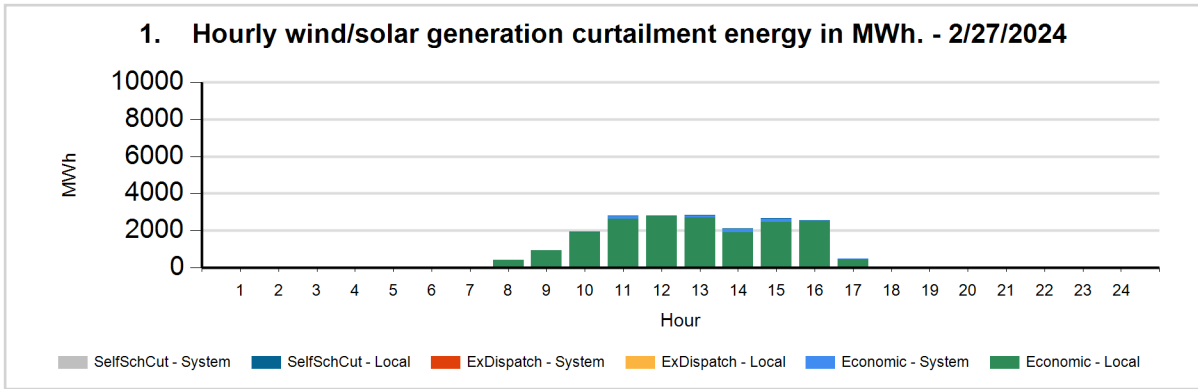
¹Only wind and solar resources can be reported in this manner because these resources have a forecast. Curtailment is defined as the difference between actual production and the forecast when actual production is less than the forecast.

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

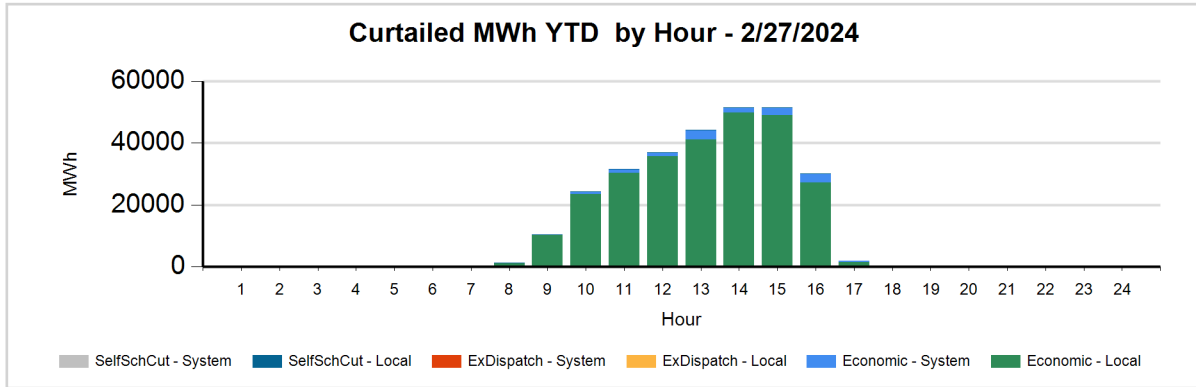
³Congestion occurs when available, least-cost energy cannot be delivered to some loads because transmission facilities do not have sufficient capacity to deliver the energy.

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

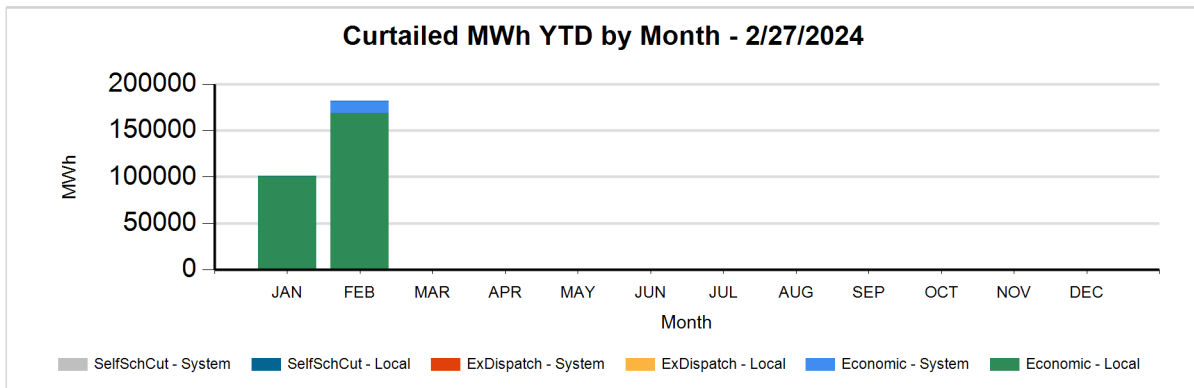
The following charts show the daily and 7-day wind and solar curtailment by category, if any.



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 - 2/27/2024
LocalEconomic	269,552
LocalSelfSchCut	241
SystemEconomic	13,473
TOTAL	283,266

Data used to produce hourly chart

DATE	HOUR	CURT TYPE	REASON	FUEL TYPE	CURTAILED MWH	CURTAILED MW
02/27	8	Economic	Local	SOLR	293	883
02/27	8	Economic	Local	WIND	129	65
02/27	9	Economic	Local	SOLR	902	1029
02/27	9	Economic	Local	WIND	42	112
02/27	10	Economic	Local	SOLR	1671	2383
02/27	10	Economic	Local	WIND	254	312
02/27	10	Economic	System	WIND	5	
02/27	10	SelfSchCut	Local	SOLR	4	7
02/27	11	Economic	Local	SOLR	2348	2747
02/27	11	Economic	Local	WIND	281	315
02/27	11	Economic	System	SOLR	127	
02/27	11	Economic	System	WIND	26	4
02/27	11	SelfSchCut	Local	SOLR	8	10
02/27	12	Economic	Local	SOLR	2494	2535
02/27	12	Economic	Local	WIND	297	314
02/27	12	Economic	System	WIND	7	6
02/27	12	SelfSchCut	Local	SOLR	14	15
02/27	13	Economic	Local	SOLR	2453	2611
02/27	13	Economic	Local	WIND	238	264
02/27	13	Economic	System	SOLR	111	
02/27	13	Economic	System	WIND	26	3
02/27	13	SelfSchCut	Local	SOLR	15	17
02/27	14	Economic	Local	SOLR	1764	2654
02/27	14	Economic	Local	WIND	142	228
02/27	14	Economic	System	SOLR	177	
02/27	14	Economic	System	WIND	34	
02/27	14	SelfSchCut	Local	SOLR	6	
02/27	15	Economic	Local	SOLR	2320	2775
02/27	15	Economic	Local	WIND	136	229
02/27	15	Economic	System	SOLR	127	
02/27	15	Economic	System	WIND	73	

02/27	15	SelfSchCut	Local	SOLR	2	
02/27	16	Economic	Local	SOLR	2300	2737
02/27	16	Economic	Local	WIND	220	149
02/27	16	Economic	System	WIND	22	54
02/27	17	Economic	Local	SOLR	432	1775
02/27	17	Economic	Local	WIND	60	191
02/27	17	Economic	System	SOLR	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.