

Wind and Solar Curtailment March 26, 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.

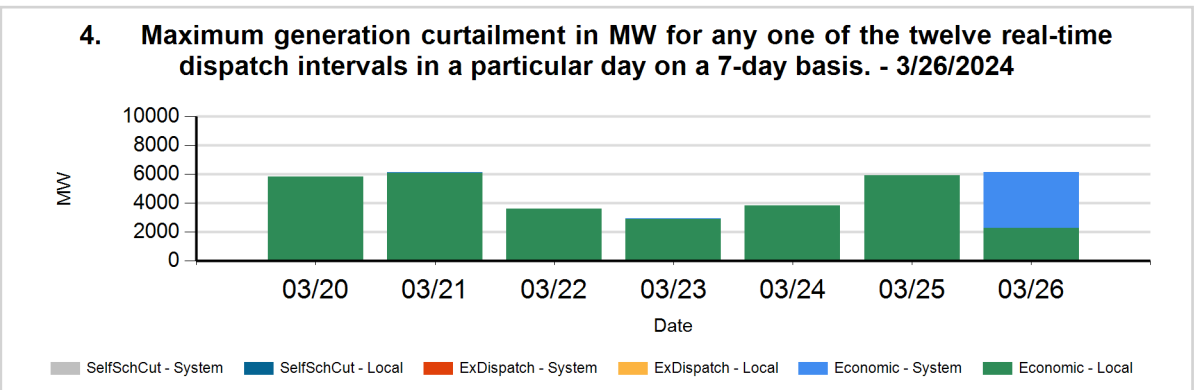
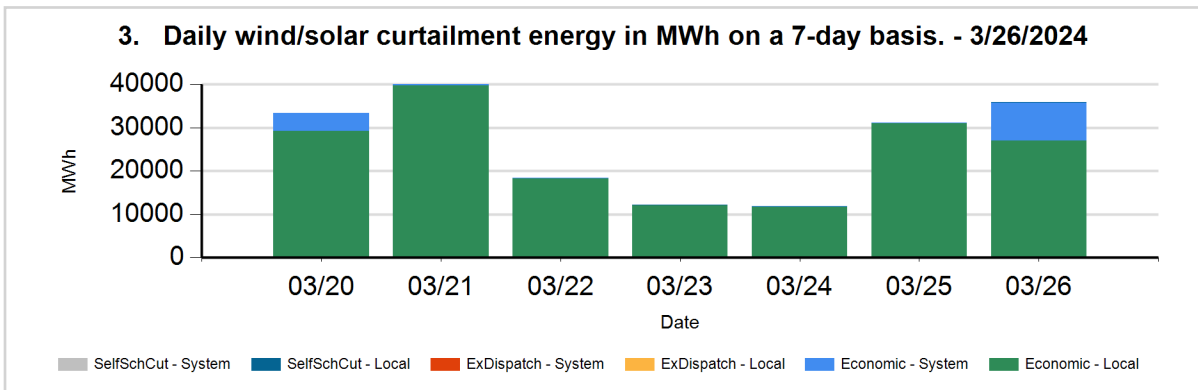
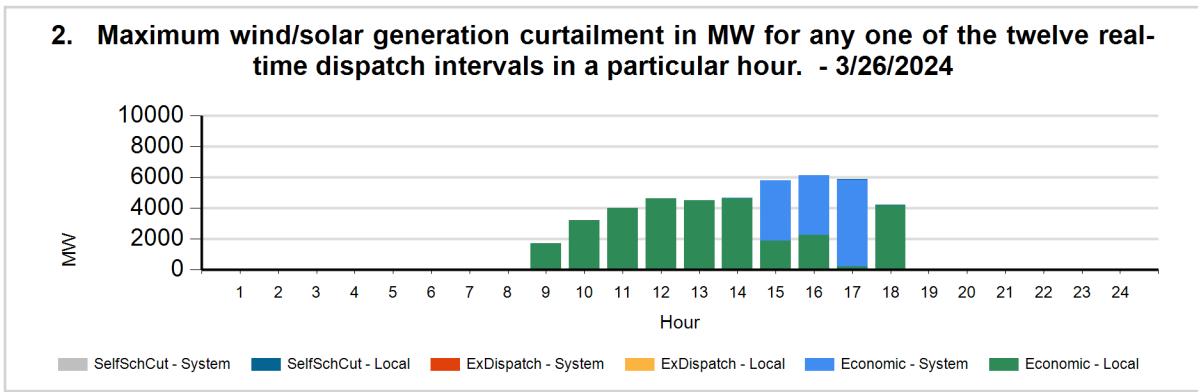
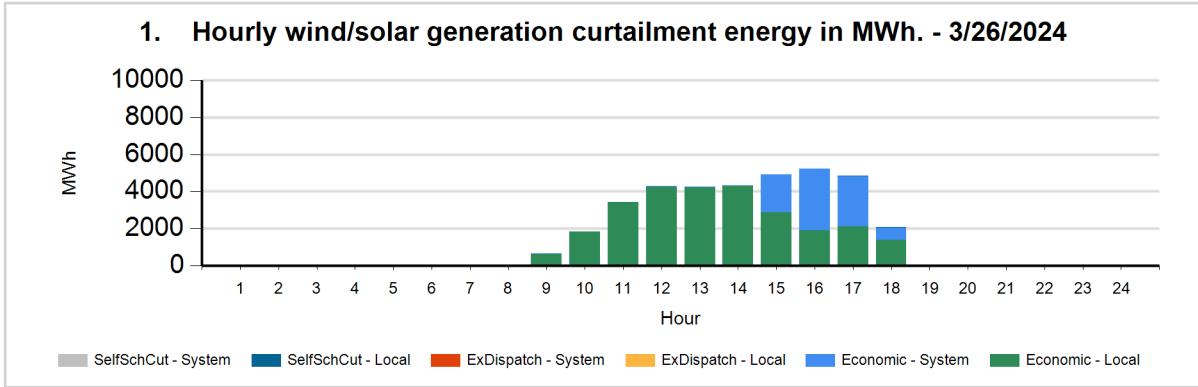
¹Only wind and solar resources can be reported in this manner because these resources have a forecast. Curtailment is defined as the difference between actual production and the forecast when actual production is less than the forecast.

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

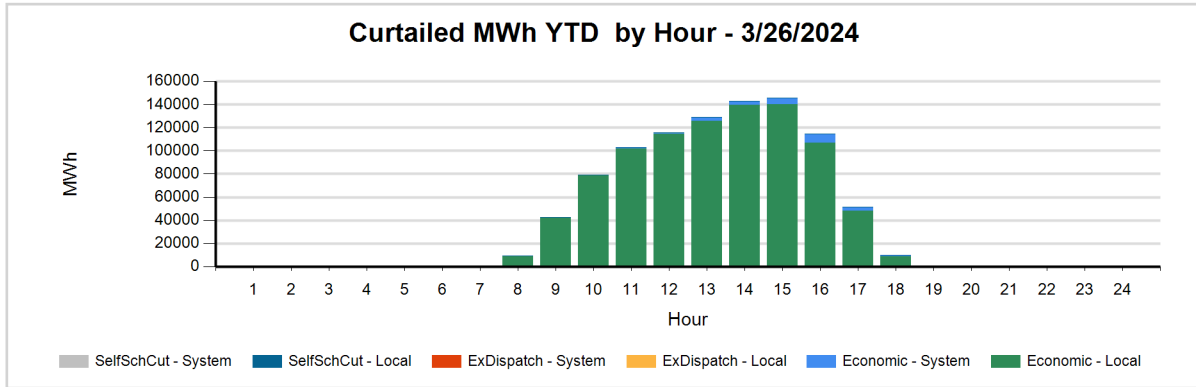
³Congestion occurs when available, least-cost energy cannot be delivered to some loads because transmission facilities do not have sufficient capacity to deliver the energy.

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

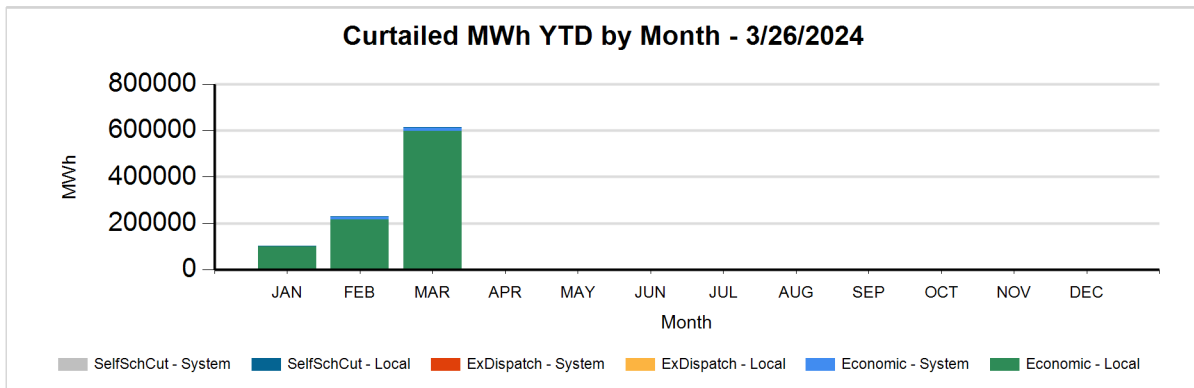
The following charts show the daily and 7-day wind and solar curtailment by category, if any.



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 - 3/26/2024
LocalEconomic	914,754
LocalSelfSchCut	289
SystemEconomic	28,388
TOTAL	943,432

Data used to produce hourly chart

DATE	HOUR	CURT TYPE	REASON	FUEL TYPE	CURTAILED MWH	CURTAILED MW
03/26	9	Economic	Local	SOLR	599	1639
03/26	9	Economic	Local	WIND	41	66
03/26	9	Economic	System	SOLR	2	
03/26	9	Economic	System	WIND	2	
03/26	9	SelfSchCut	Local	SOLR	0	
03/26	10	Economic	Local	SOLR	1762	3129
03/26	10	Economic	Local	WIND	72	93
03/26	11	Economic	Local	SOLR	3317	3798
03/26	11	Economic	Local	WIND	111	216
03/26	12	Economic	Local	SOLR	3832	4086
03/26	12	Economic	Local	WIND	437	530
03/26	12	Economic	System	SOLR	29	
03/26	13	Economic	Local	SOLR	3808	3950
03/26	13	Economic	Local	WIND	430	541
03/26	13	Economic	System	WIND	8	
03/26	14	Economic	Local	SOLR	3793	4071
03/26	14	Economic	Local	WIND	489	563
03/26	14	Economic	System	WIND	32	42
03/26	15	Economic	Local	SOLR	2616	1788
03/26	15	Economic	Local	WIND	270	92
03/26	15	Economic	System	SOLR	1702	3376
03/26	15	Economic	System	WIND	317	556
03/26	16	Economic	Local	SOLR	1825	2178
03/26	16	Economic	Local	WIND	80	73
03/26	16	Economic	System	SOLR	2789	3334
03/26	16	Economic	System	WIND	541	546
03/26	17	Economic	Local	SOLR	1970	223
03/26	17	Economic	Local	WIND	149	
03/26	17	Economic	System	SOLR	2283	4967
03/26	17	Economic	System	WIND	428	689
03/26	17	SelfSchCut	Local	SOLR	1	3

03/26	18	Economic	Local	SOLR	1224	3659
03/26	18	Economic	Local	WIND	145	510
03/26	18	Economic	System	SOLR	548	
03/26	18	Economic	System	WIND	161	34
03/26	18	SelfSchCut	Local	SOLR	11	23
03/26	19	Economic	Local	SOLR	6	21

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.