

Wind and Solar Curtailment March 21, 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.

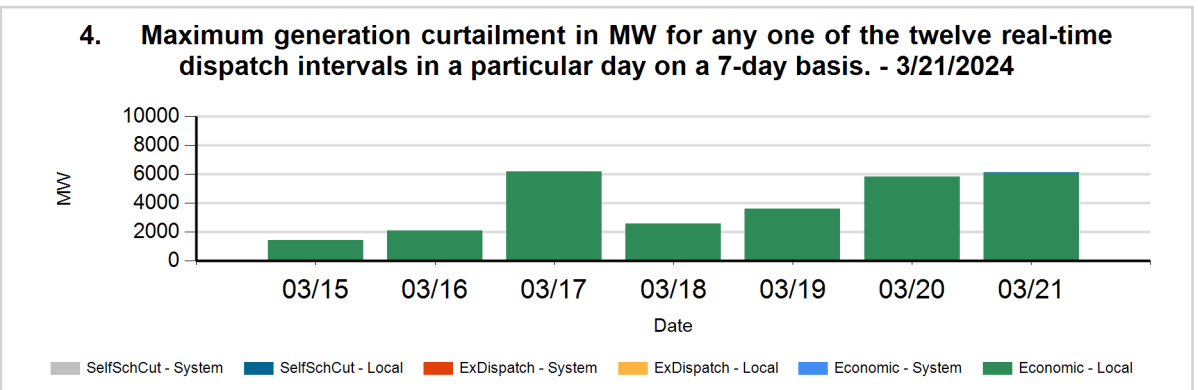
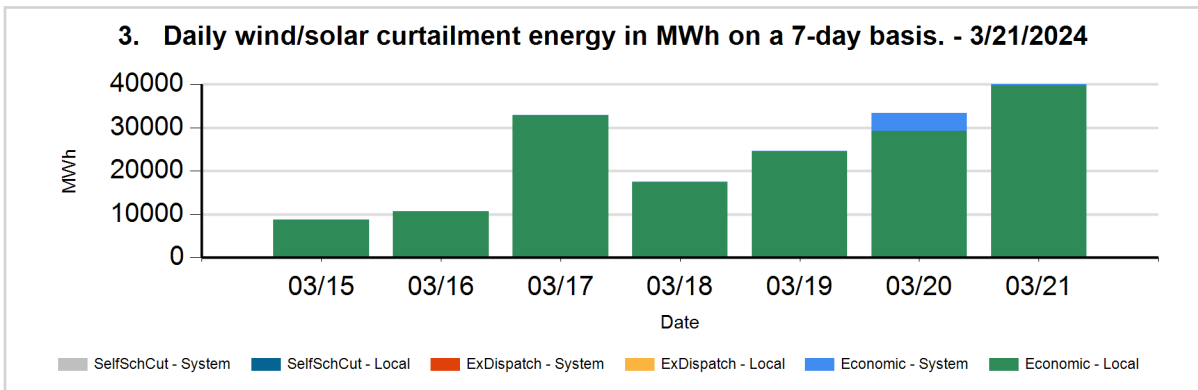
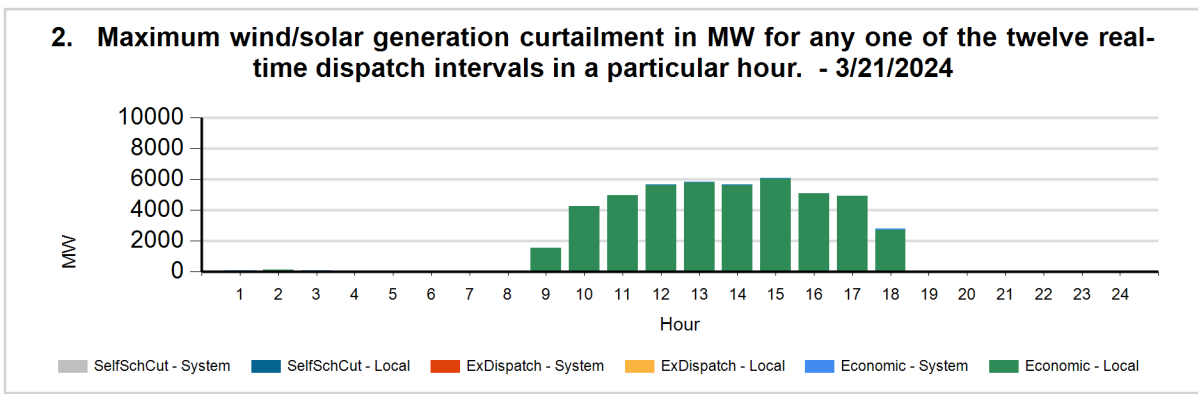
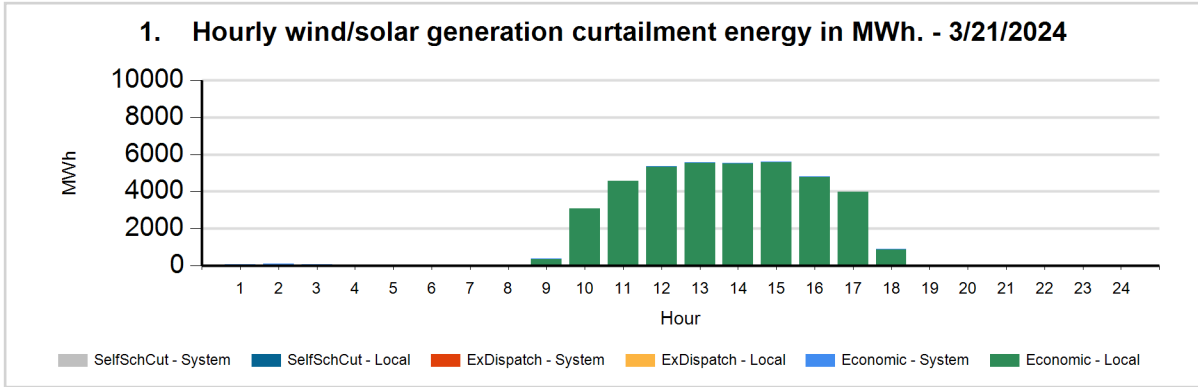
¹Only wind and solar resources can be reported in this manner because these resources have a forecast. Curtailment is defined as the difference between actual production and the forecast when actual production is less than the forecast.

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

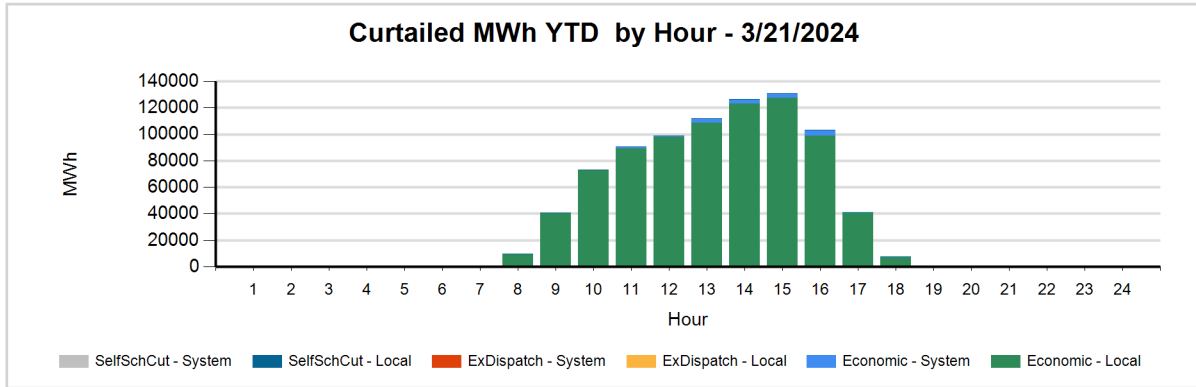
³Congestion occurs when available, least-cost energy cannot be delivered to some loads because transmission facilities do not have sufficient capacity to deliver the energy.

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

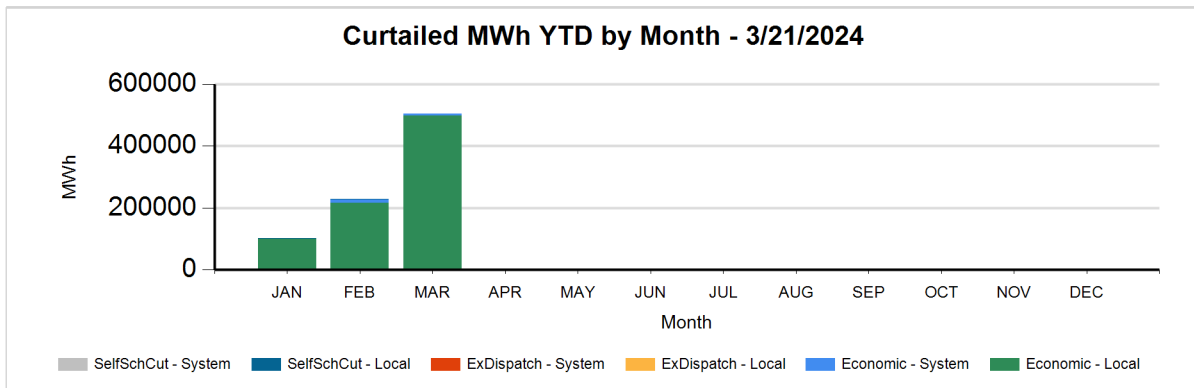
The following charts show the daily and 7-day wind and solar curtailment by category, if any.



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 - 3/21/2024
LocalEconomic	814,515
LocalSelfSchCut	257
SystemEconomic	19,360
TOTAL	834,132

Data used to produce hourly chart

DATE	HOUR	CURT TYPE	REASON	FUEL TYPE	CURTAILED MWH	CURTAILED MW
03/21	1	Economic	Local	WIND	11	
03/21	1	Economic	System	WIND	49	92
03/21	2	Economic	Local	WIND	25	102
03/21	2	Economic	System	WIND	68	
03/21	3	Economic	Local	WIND	2	
03/21	3	Economic	System	WIND	58	81
03/21	4	Economic	System	WIND	2	25
03/21	9	Economic	Local	SOLR	366	1502
03/21	9	Economic	Local	WIND	2	29
03/21	9	Economic	System	SOLR	5	
03/21	10	Economic	Local	SOLR	2991	4082
03/21	10	Economic	Local	WIND	102	181
03/21	11	Economic	Local	SOLR	4310	4747
03/21	11	Economic	Local	WIND	240	229
03/21	12	Economic	Local	SOLR	5023	5302
03/21	12	Economic	Local	WIND	316	334
03/21	12	Economic	System	WIND	11	16
03/21	13	Economic	Local	SOLR	5159	5416
03/21	13	Economic	Local	WIND	388	412
03/21	13	Economic	System	WIND	11	2
03/21	14	Economic	Local	SOLR	5095	5218
03/21	14	Economic	Local	WIND	435	439
03/21	14	Economic	System	WIND	3	4
03/21	15	Economic	Local	SOLR	5055	5575
03/21	15	Economic	Local	WIND	526	526
03/21	15	Economic	System	WIND	7	7
03/21	16	Economic	Local	SOLR	4233	4481
03/21	16	Economic	Local	WIND	556	614
03/21	16	Economic	System	WIND	6	
03/21	17	Economic	Local	SOLR	3476	4356
03/21	17	Economic	Local	WIND	514	572

03/21	18	Economic	Local	SOLR	704	2102
03/21	18	Economic	Local	WIND	169	611
03/21	18	Economic	System	SOLR	36	94
03/21	18	Economic	System	WIND	4	
03/21	19	Economic	System	SOLR	0	2

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.