

Wind and Solar Curtailment March 27, 2023

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.

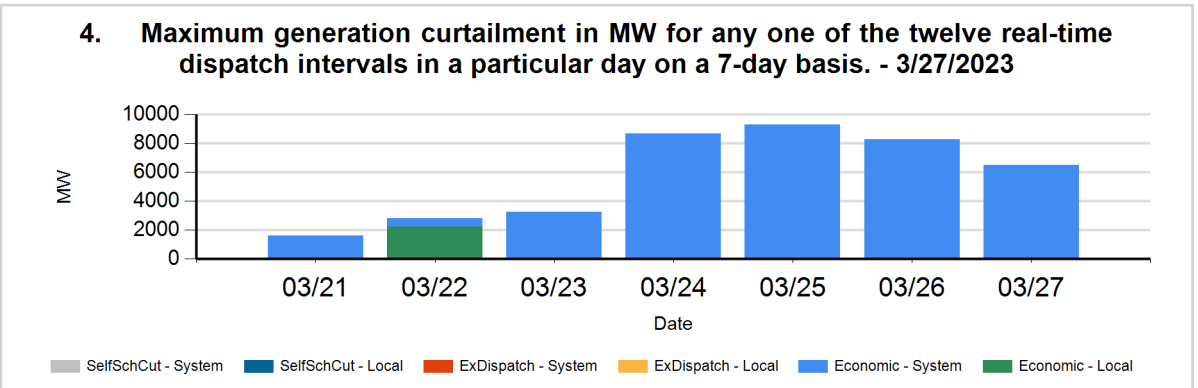
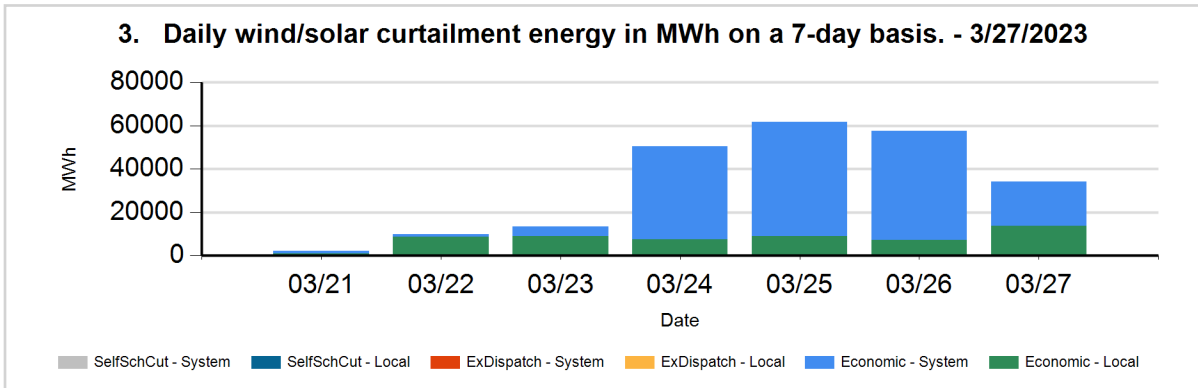
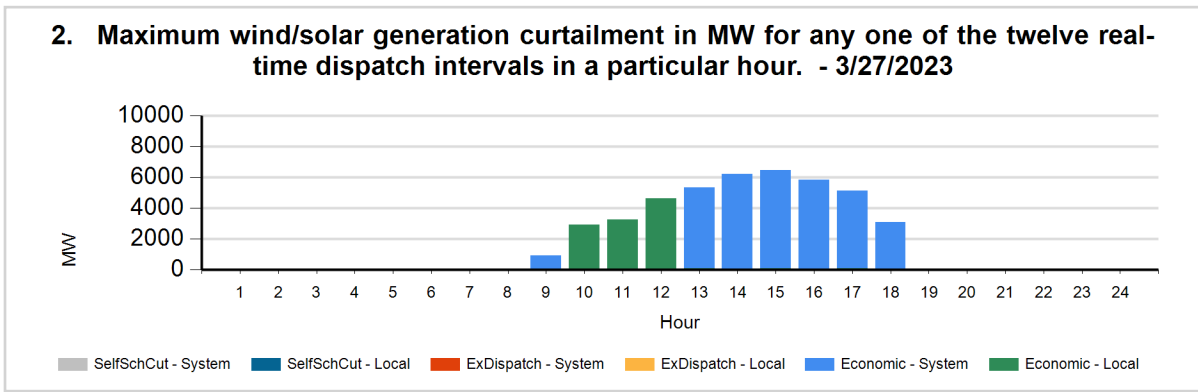
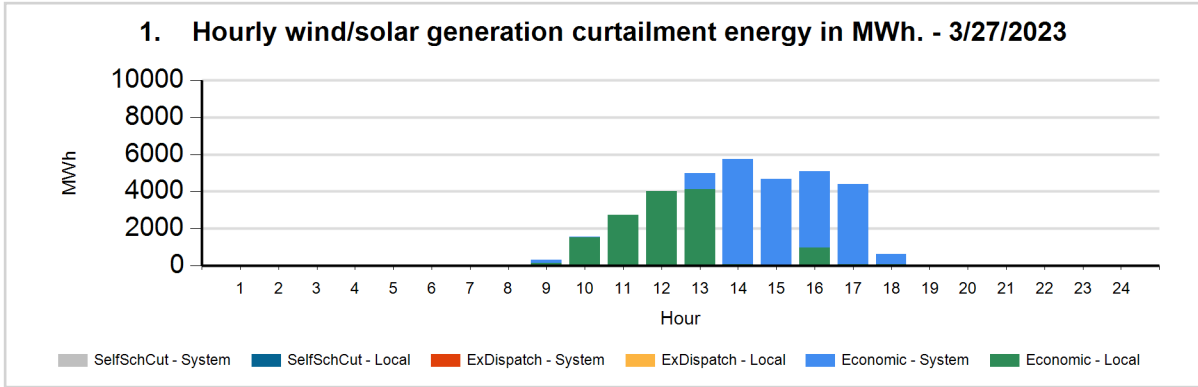
¹Only wind and solar resources can be reported in this manner because these resources have a forecast. Curtailment is defined as the difference between actual production and the forecast when actual production is less than the forecast.

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

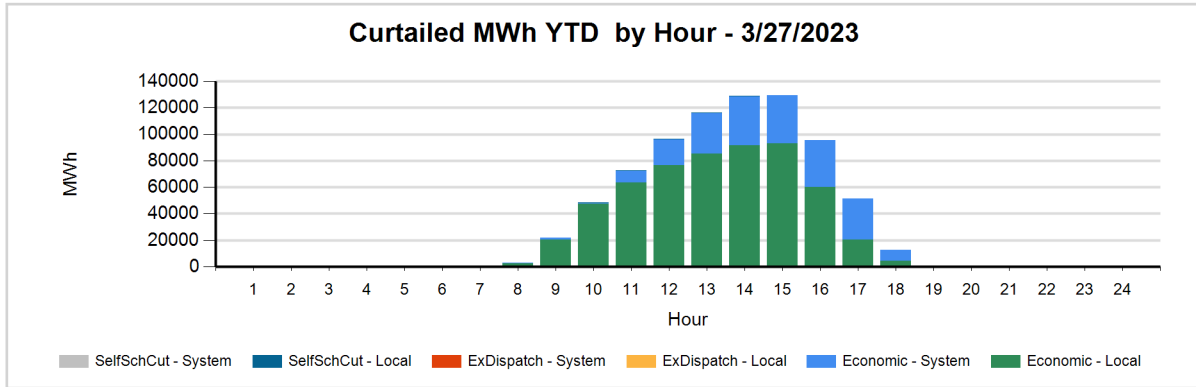
³Congestion occurs when available, least-cost energy cannot be delivered to some loads because transmission facilities do not have sufficient capacity to deliver the energy.

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

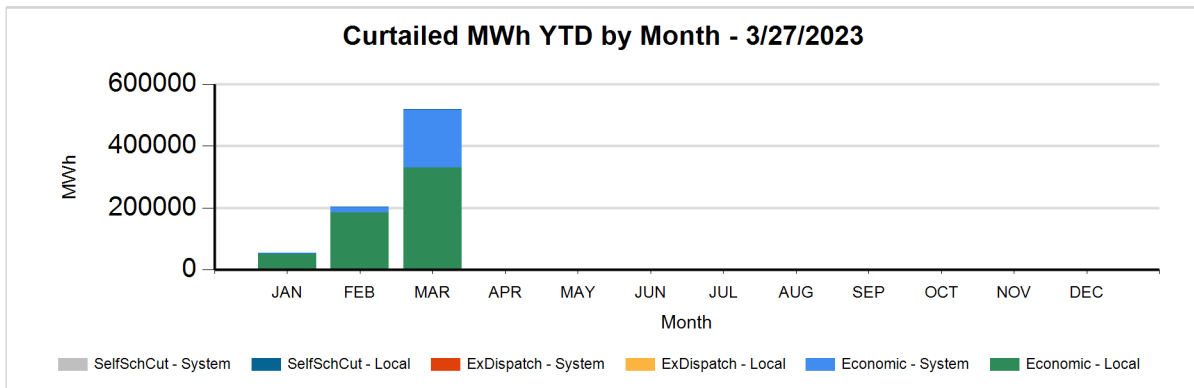
The following charts show the daily and 7-day wind and solar curtailment by category, if any.



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 - 3/27/2023
LocalEconomic	565,374
LocalSelfSchCut	12
SystemEconomic	211,110
TOTAL	776,496

Data used to produce hourly chart

DATE	HOUR	CURT TYPE	REASON	FUEL TYPE	CURTAILED MWH	CURTAILED MW
03/27	8	Economic	Local	SOLR	0	
03/27	8	Economic	System	SOLR	1	6
03/27	9	Economic	Local	SOLR	128	
03/27	9	Economic	System	SOLR	180	882
03/27	9	Economic	System	WIND	3	12
03/27	10	Economic	Local	SOLR	1497	2905
03/27	10	Economic	Local	WIND	9	28
03/27	10	Economic	System	SOLR	39	
03/27	10	Economic	System	WIND	2	
03/27	11	Economic	Local	SOLR	2710	3256
03/27	11	Economic	Local	WIND	12	8
03/27	12	Economic	Local	SOLR	3924	4401
03/27	12	Economic	Local	WIND	85	230
03/27	12	Economic	System	SOLR	0	
03/27	13	Economic	Local	SOLR	3949	75
03/27	13	Economic	Local	WIND	180	
03/27	13	Economic	System	SOLR	827	5052
03/27	13	Economic	System	WIND	36	218
03/27	14	Economic	Local	SOLR	53	57
03/27	14	Economic	System	SOLR	5457	5907
03/27	14	Economic	System	WIND	245	256
03/27	15	Economic	Local	SOLR	42	58
03/27	15	Economic	System	SOLR	4464	6157
03/27	15	Economic	System	WIND	179	265
03/27	16	Economic	Local	SOLR	922	48
03/27	16	Economic	Local	WIND	32	
03/27	16	Economic	System	SOLR	3966	5581
03/27	16	Economic	System	WIND	148	189
03/27	17	Economic	Local	SOLR	60	59
03/27	17	Economic	System	SOLR	4182	4942
03/27	17	Economic	System	WIND	163	142

03/27	18	Economic	Local	SOLR	65	46
03/27	18	Economic	Local	WIND	1	
03/27	18	Economic	System	SOLR	541	3007
03/27	18	Economic	System	WIND	3	13

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.