

Wind and Solar Curtailment March 21, 2025

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.

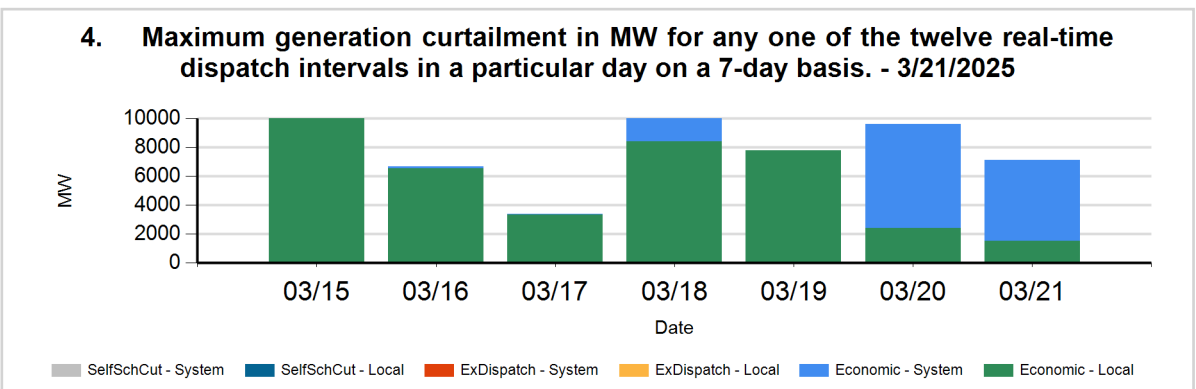
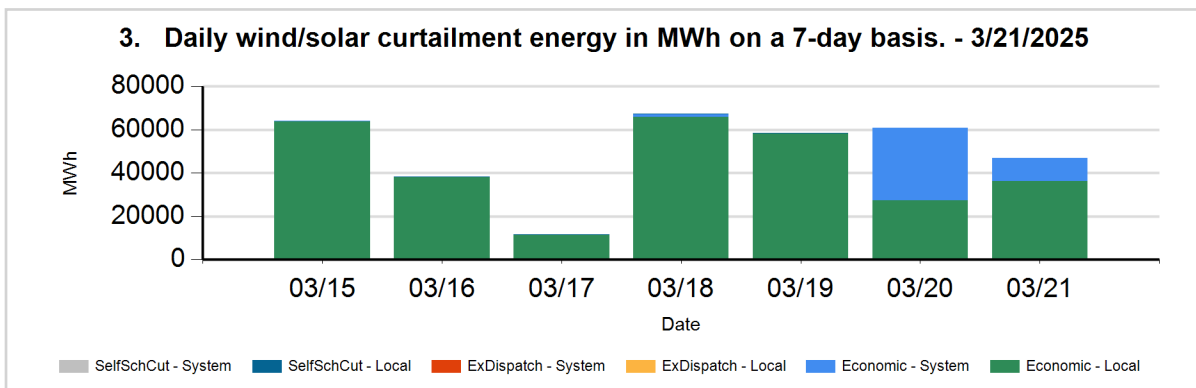
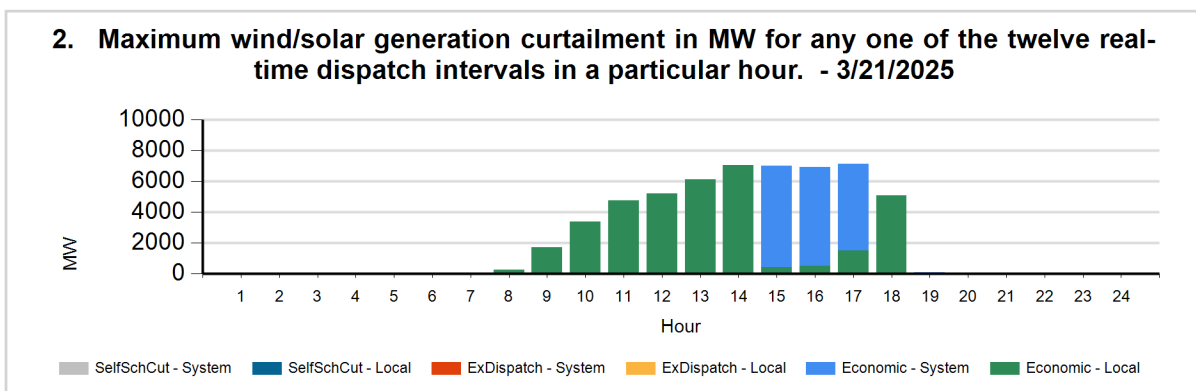
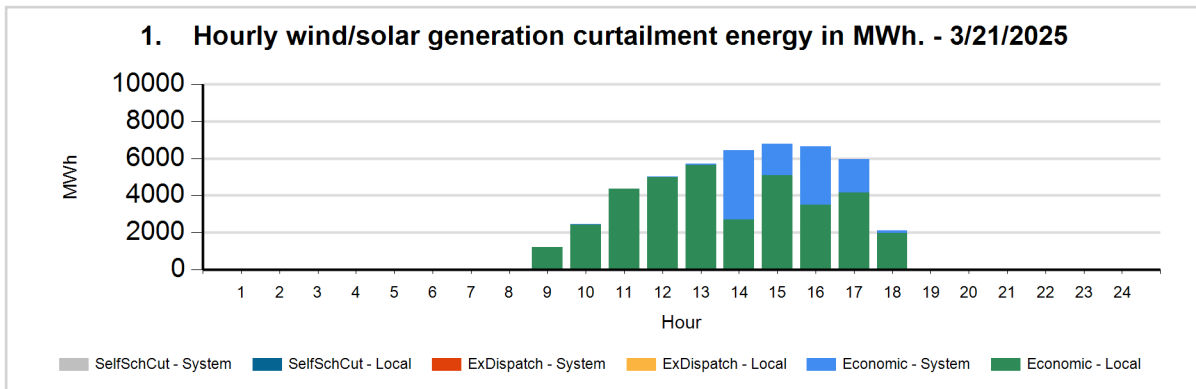
¹Only wind and solar resources can be reported in this manner because these resources have a forecast. Curtailment is defined as the difference between actual production and the forecast when actual production is less than the forecast.

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

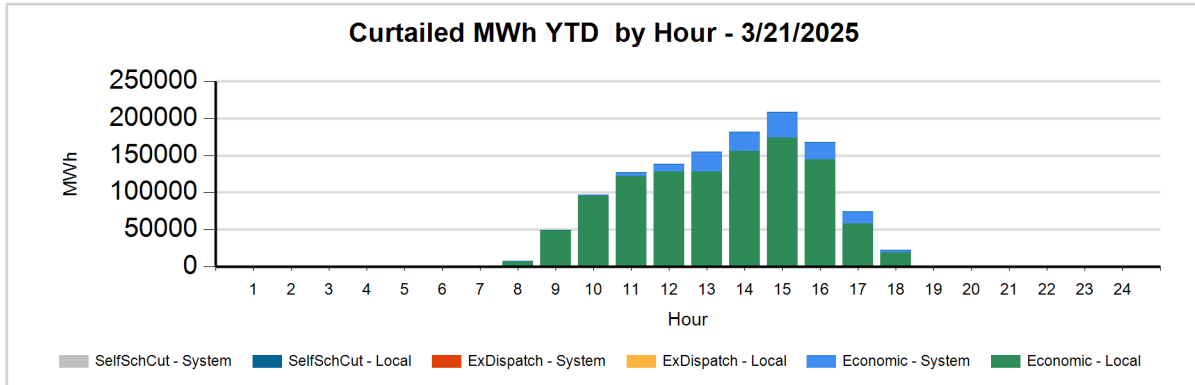
³Congestion occurs when available, least-cost energy cannot be delivered to some loads because transmission facilities do not have sufficient capacity to deliver the energy.

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

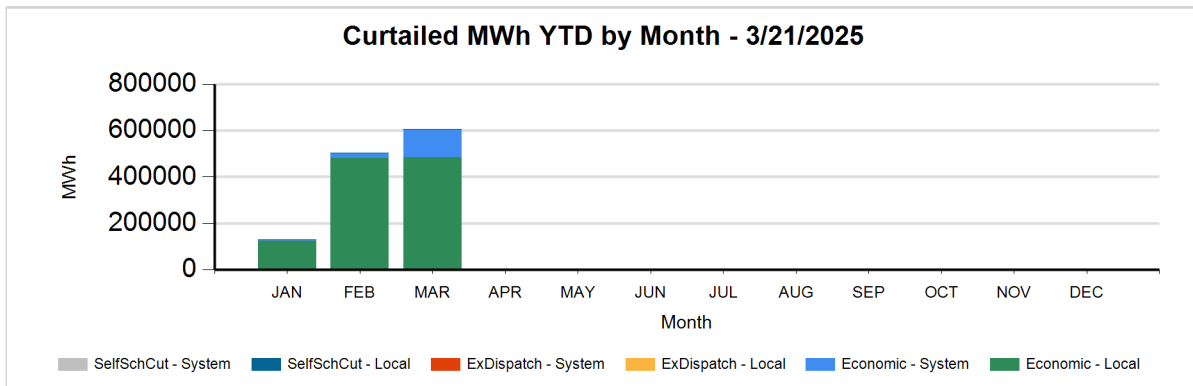
The following charts show the daily and 7-day wind and solar curtailment by category, if any.



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 - 3/21/2025
LocalEconomic	1,089,039
LocalSelfSchCut	145
SystemEconomic	149,258
TOTAL	1,238,443

Data used to produce hourly chart

DATE	HOUR	CURT TYPE	REASON	FUEL TYPE	CURTAILED MWH	CURTAILED MW
03/21	8	Economic	Local	SOLR	43	227
03/21	9	Economic	Local	SOLR	1221	1712
03/21	10	Economic	Local	SOLR	2456	3364
03/21	10	Economic	System	SOLR	2	
03/21	11	Economic	Local	SOLR	4345	4762
03/21	11	Economic	System	WIND	0	
03/21	12	Economic	Local	SOLR	4997	5225
03/21	12	Economic	System	SOLR	9	2
03/21	12	Economic	System	WIND	7	
03/21	13	Economic	Local	SOLR	5639	6062
03/21	13	Economic	Local	WIND	16	17
03/21	13	Economic	System	SOLR	28	23
03/21	13	Economic	System	WIND	29	25
03/21	14	Economic	Local	SOLR	2645	6652
03/21	14	Economic	Local	WIND	51	393
03/21	14	Economic	System	SOLR	3600	
03/21	14	Economic	System	WIND	129	
03/21	15	Economic	Local	SOLR	4815	397
03/21	15	Economic	Local	WIND	265	
03/21	15	Economic	System	SOLR	1555	6158
03/21	15	Economic	System	WIND	132	435
03/21	16	Economic	Local	SOLR	3332	497
03/21	16	Economic	Local	WIND	169	
03/21	16	Economic	System	SOLR	2912	6034
03/21	16	Economic	System	WIND	220	412
03/21	17	Economic	Local	SOLR	3902	1486
03/21	17	Economic	Local	WIND	242	
03/21	17	Economic	System	SOLR	1662	5156
03/21	17	Economic	System	WIND	158	471
03/21	18	Economic	Local	SOLR	1846	4754
03/21	18	Economic	Local	WIND	106	313

03/21	18	Economic	System	SOLR	110	
03/21	18	Economic	System	WIND	34	13
03/21	19	Economic	Local	SOLR	7	66
03/21	19	Economic	System	SOLR	2	15

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.