

Wind and Solar Curtailment March 22, 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.

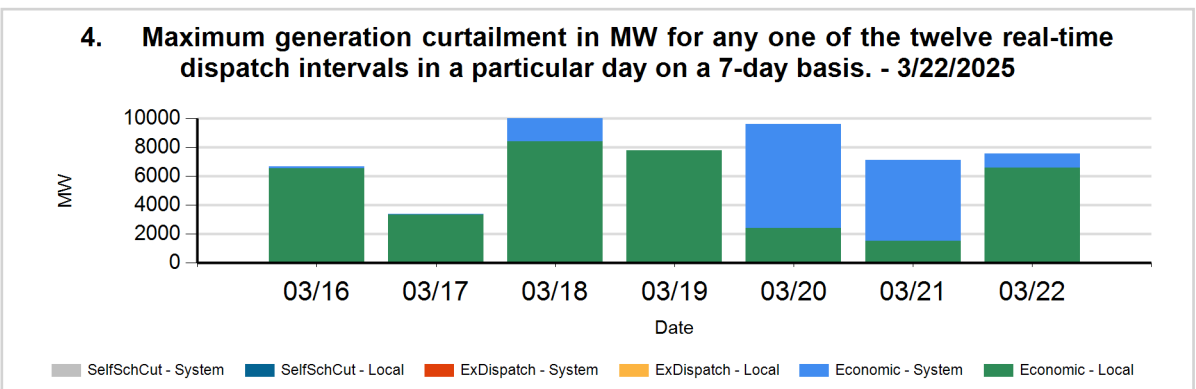
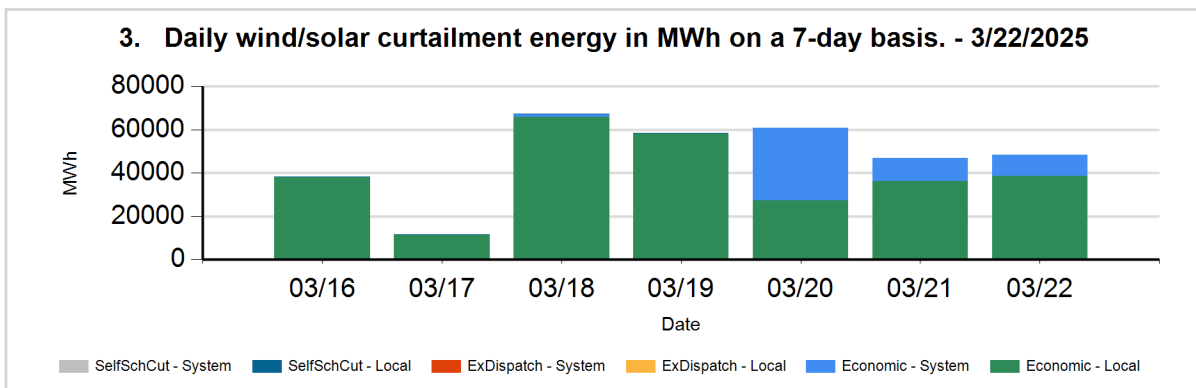
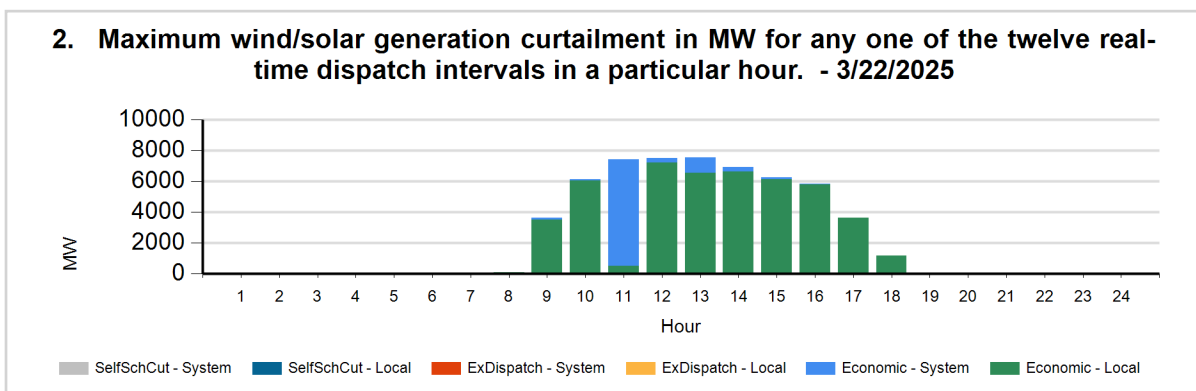
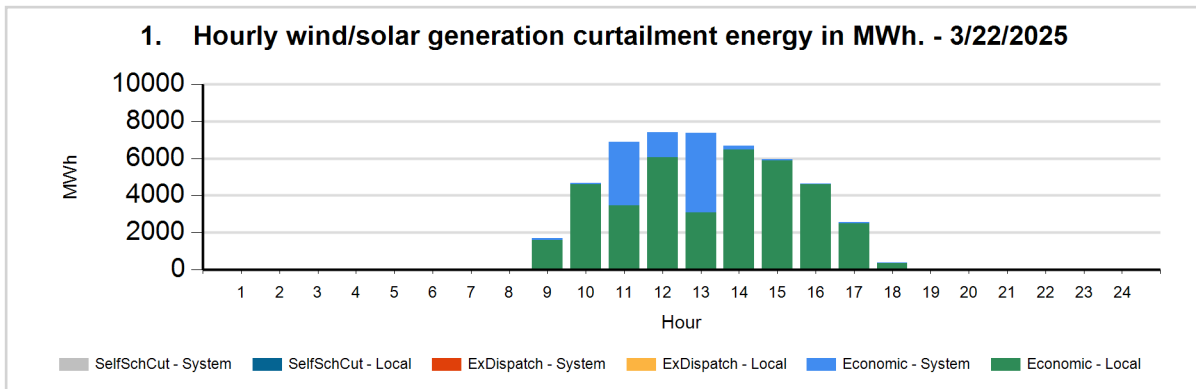
¹Only wind and solar resources can be reported in this manner because these resources have a forecast. Curtailment is defined as the difference between actual production and the forecast when actual production is less than the forecast.

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

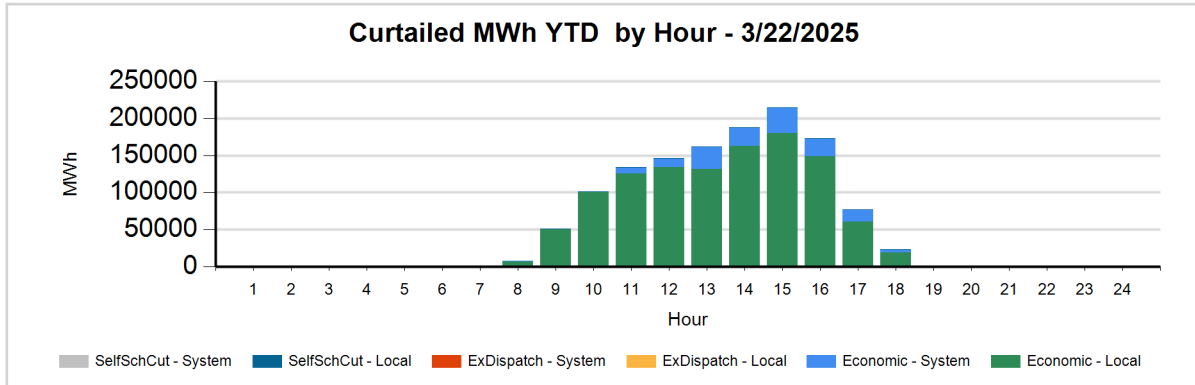
³Congestion occurs when available, least-cost energy cannot be delivered to some loads because transmission facilities do not have sufficient capacity to deliver the energy.

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

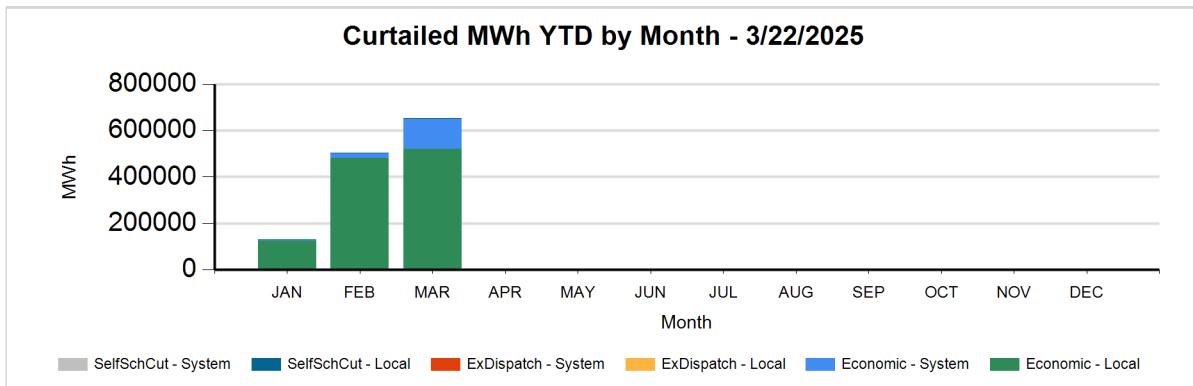
The following charts show the daily and 7-day wind and solar curtailment by category, if any.



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 - 3/22/2025
LocalEconomic	1,127,705
LocalSelfSchCut	145
SystemEconomic	158,792
TOTAL	1,286,643

Data used to produce hourly chart

DATE	HOUR	CURT TYPE	REASON	FUEL TYPE	CURTAILED MWH	CURTAILED MW
03/22	8	Economic	Local	SOLR	9	80
03/22	9	Economic	Local	SOLR	1557	3326
03/22	9	Economic	Local	WIND	36	179
03/22	9	Economic	System	SOLR	51	86
03/22	9	Economic	System	WIND	30	46
03/22	10	Economic	Local	SOLR	4286	5526
03/22	10	Economic	Local	WIND	329	524
03/22	10	Economic	System	SOLR	7	22
03/22	10	Economic	System	WIND	36	44
03/22	11	Economic	Local	SOLR	3205	493
03/22	11	Economic	Local	WIND	238	
03/22	11	Economic	System	SOLR	3147	6406
03/22	11	Economic	System	WIND	286	532
03/22	12	Economic	Local	SOLR	5647	6726
03/22	12	Economic	Local	WIND	410	508
03/22	12	Economic	System	SOLR	1096	46
03/22	12	Economic	System	WIND	245	222
03/22	13	Economic	Local	SOLR	2865	6006
03/22	13	Economic	Local	WIND	215	551
03/22	13	Economic	System	SOLR	3816	800
03/22	13	Economic	System	WIND	483	176
03/22	14	Economic	Local	SOLR	5930	6084
03/22	14	Economic	Local	WIND	551	540
03/22	14	Economic	System	SOLR	114	180
03/22	14	Economic	System	WIND	82	107
03/22	15	Economic	Local	SOLR	5315	5547
03/22	15	Economic	Local	WIND	581	601
03/22	15	Economic	System	SOLR	3	23
03/22	15	Economic	System	WIND	50	77
03/22	16	Economic	Local	SOLR	4060	5220
03/22	16	Economic	Local	WIND	568	595

03/22	16	Economic	System	SOLR	1	
03/22	16	Economic	System	WIND	16	26
03/22	17	Economic	Local	SOLR	2084	3007
03/22	17	Economic	Local	WIND	418	626
03/22	17	Economic	System	SOLR	35	
03/22	17	Economic	System	WIND	13	
03/22	18	Economic	Local	SOLR	318	1085
03/22	18	Economic	Local	WIND	41	82
03/22	18	Economic	System	WIND	22	

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.