

Wind and Solar Curtailment March 20, 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.

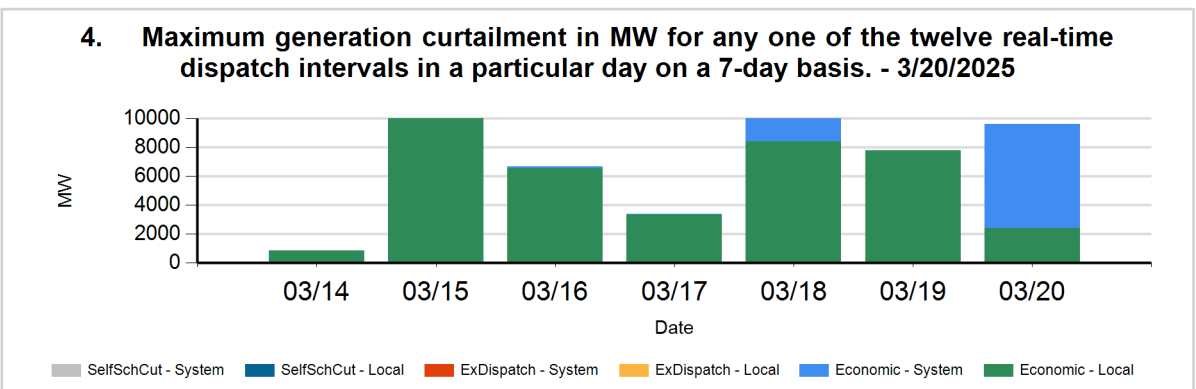
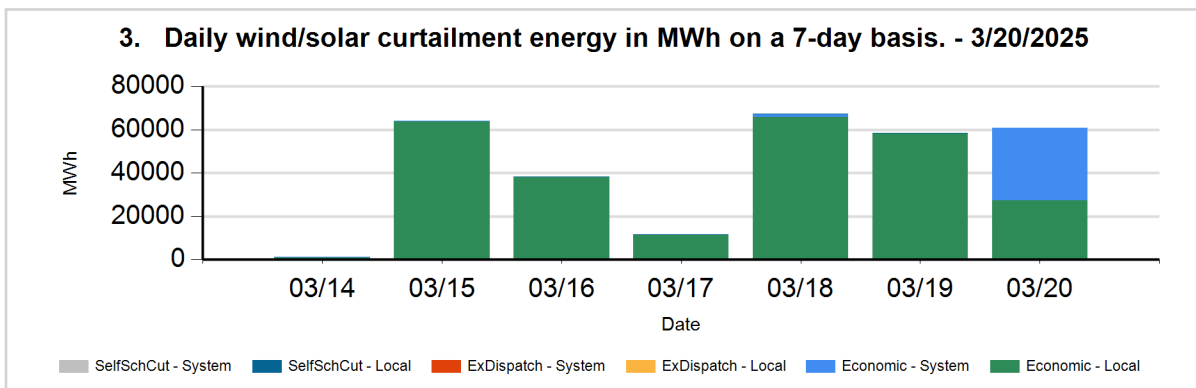
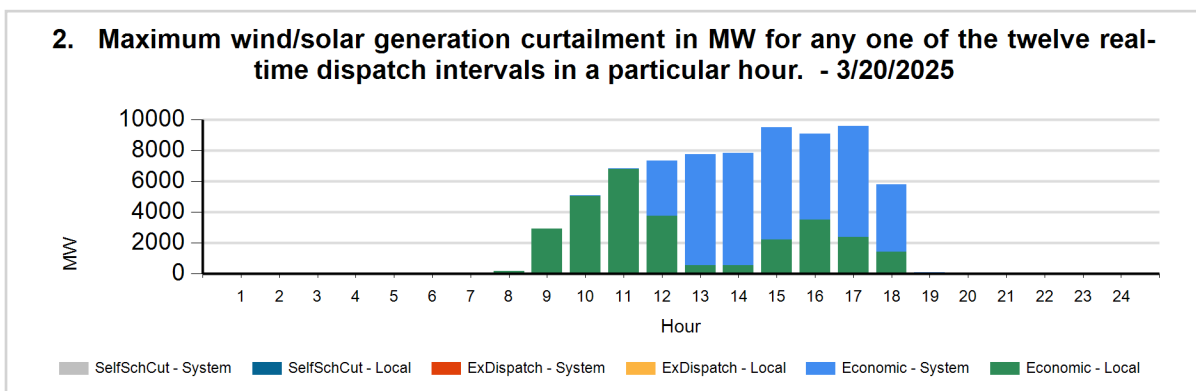
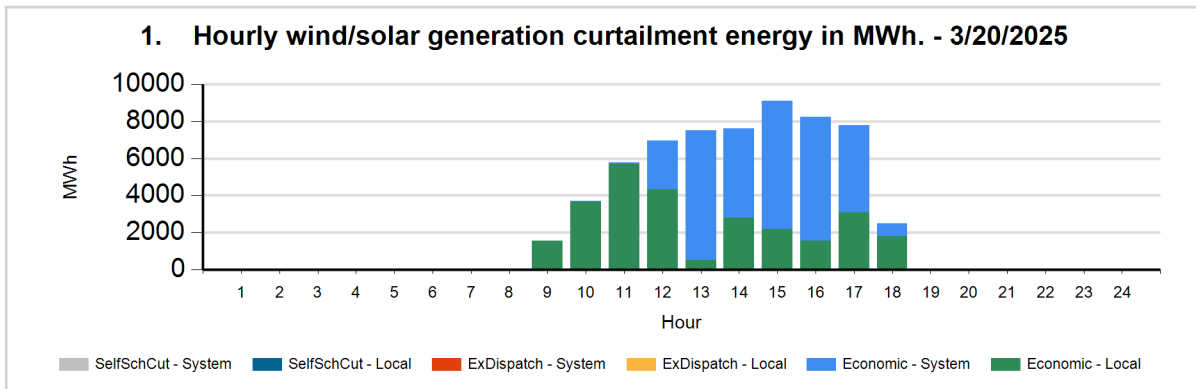
¹Only wind and solar resources can be reported in this manner because these resources have a forecast. Curtailment is defined as the difference between actual production and the forecast when actual production is less than the forecast.

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

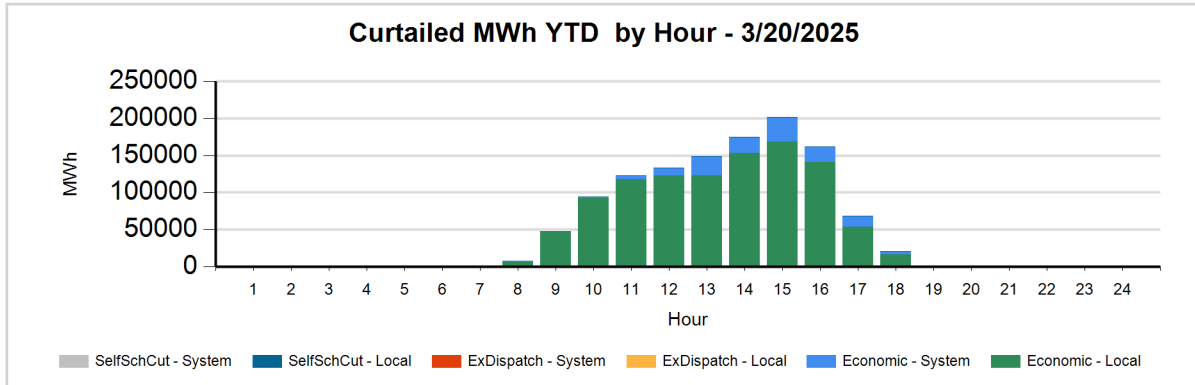
³Congestion occurs when available, least-cost energy cannot be delivered to some loads because transmission facilities do not have sufficient capacity to deliver the energy.

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

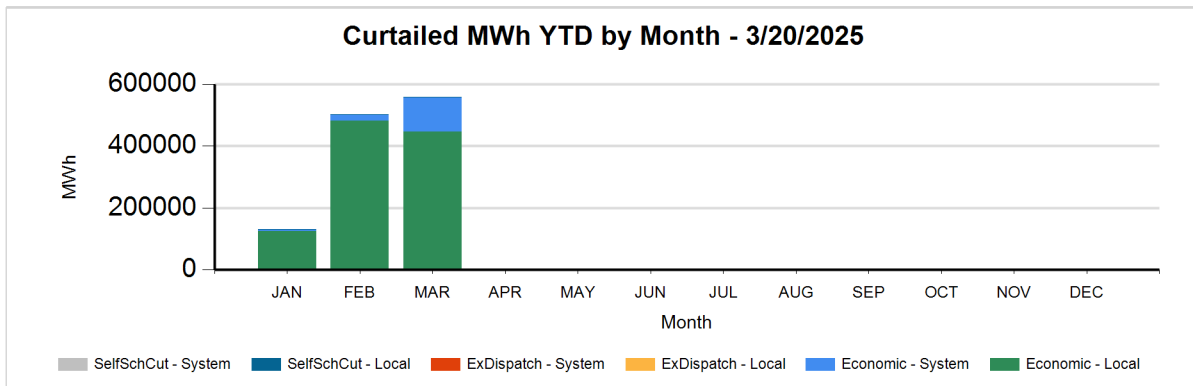
The following charts show the daily and 7-day wind and solar curtailment by category, if any.



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 - 3/20/2025
LocalEconomic	1,052,944
LocalSelfSchCut	145
SystemEconomic	138,672
TOTAL	1,191,762

Data used to produce hourly chart

DATE	HOUR	CURT TYPE	REASON	FUEL TYPE	CURTAILED MWH	CURTAILED MW
03/20	8	Economic	Local	SOLR	31	166
03/20	9	Economic	Local	SOLR	1545	2841
03/20	9	Economic	Local	WIND	21	73
03/20	9	Economic	System	SOLR	0	
03/20	10	Economic	Local	SOLR	3531	4825
03/20	10	Economic	Local	WIND	161	270
03/20	10	Economic	System	SOLR	1	2
03/20	10	Economic	System	WIND	1	6
03/20	11	Economic	Local	SOLR	5424	6476
03/20	11	Economic	Local	WIND	271	303
03/20	11	Economic	System	SOLR	67	39
03/20	11	Economic	System	WIND	7	7
03/20	12	Economic	Local	SOLR	4107	3435
03/20	12	Economic	Local	WIND	211	332
03/20	12	Economic	System	SOLR	2535	3491
03/20	12	Economic	System	WIND	116	70
03/20	13	Economic	Local	SOLR	505	554
03/20	13	Economic	Local	WIND	3	
03/20	13	Economic	System	SOLR	6551	6677
03/20	13	Economic	System	WIND	441	522
03/20	14	Economic	Local	SOLR	2549	551
03/20	14	Economic	Local	WIND	249	
03/20	14	Economic	System	SOLR	4544	6714
03/20	14	Economic	System	WIND	274	577
03/20	15	Economic	Local	SOLR	2092	2120
03/20	15	Economic	Local	WIND	81	81
03/20	15	Economic	System	SOLR	6410	6785
03/20	15	Economic	System	WIND	517	506
03/20	16	Economic	Local	SOLR	1530	3518
03/20	16	Economic	Local	WIND	38	
03/20	16	Economic	System	SOLR	6077	4962

03/20	16	Economic	System	WIND	600	597
03/20	17	Economic	Local	SOLR	2862	2298
03/20	17	Economic	Local	WIND	204	97
03/20	17	Economic	System	SOLR	4281	6659
03/20	17	Economic	System	WIND	453	553
03/20	18	Economic	Local	SOLR	1640	1412
03/20	18	Economic	Local	WIND	145	
03/20	18	Economic	System	SOLR	600	3825
03/20	18	Economic	System	WIND	97	571
03/20	19	Economic	Local	SOLR	5	47
03/20	19	Economic	System	SOLR	5	26

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.