

Wind and Solar Curtailment April 04, 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.

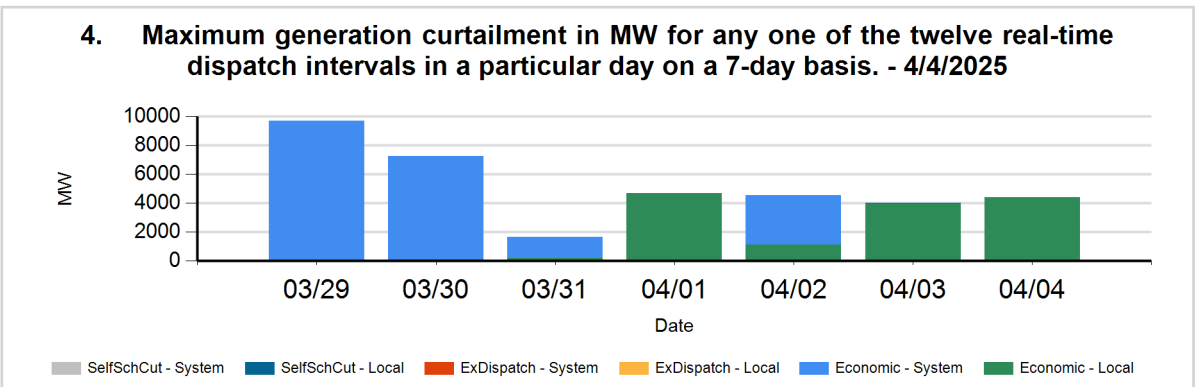
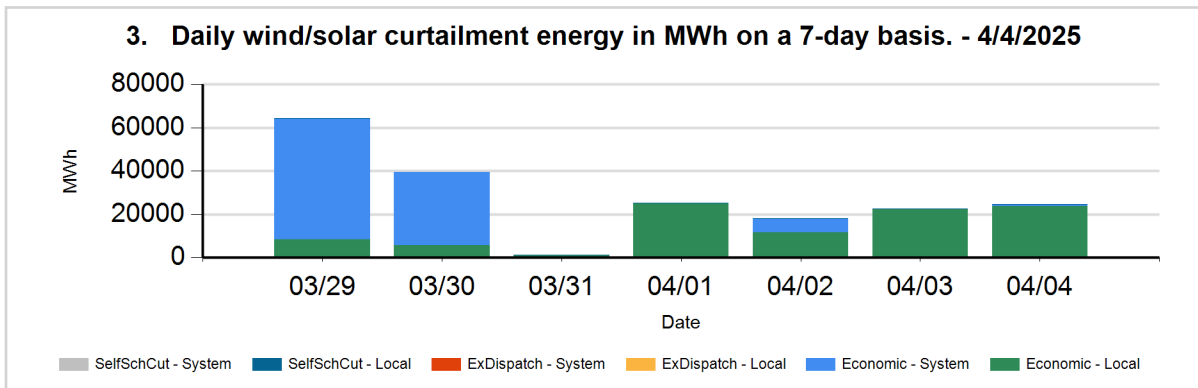
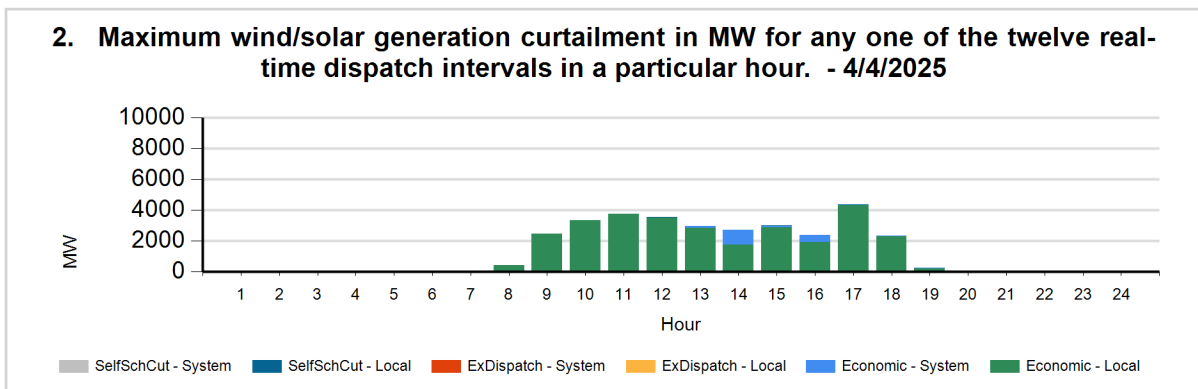
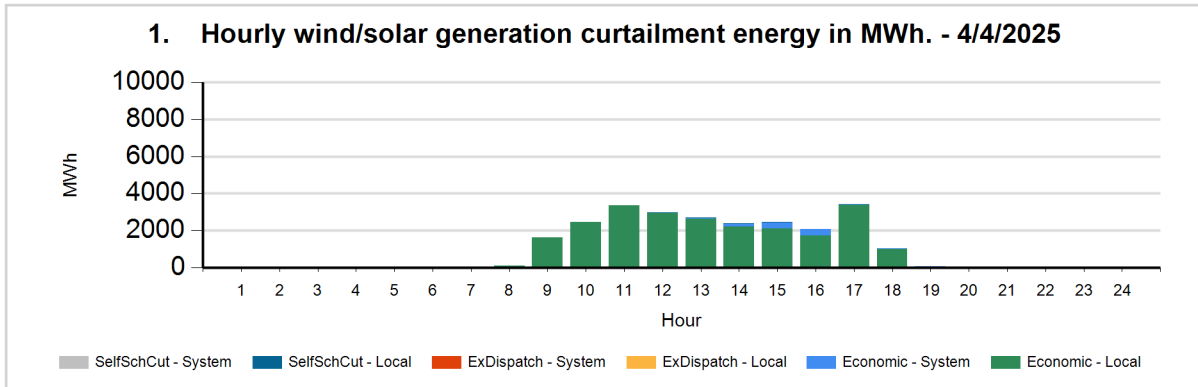
¹Only wind and solar resources can be reported in this manner because these resources have a forecast. Curtailment is defined as the difference between actual production and the forecast when actual production is less than the forecast.

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

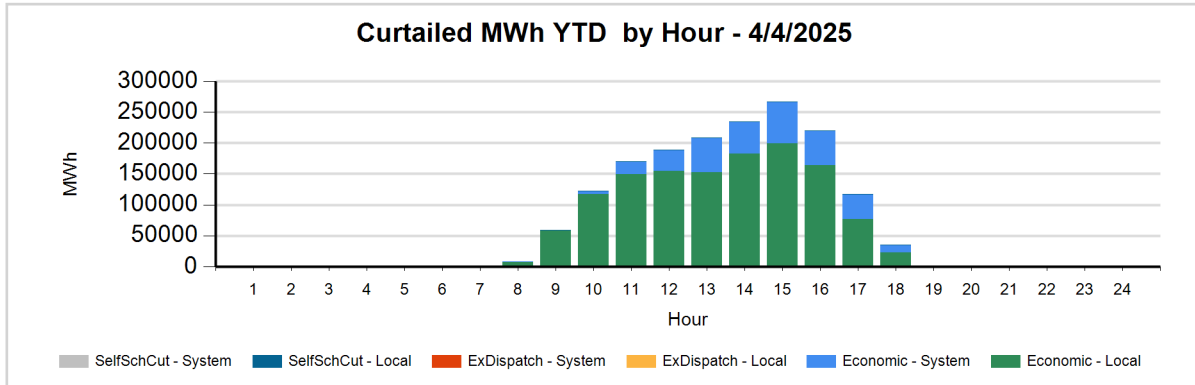
³Congestion occurs when available, least-cost energy cannot be delivered to some loads because transmission facilities do not have sufficient capacity to deliver the energy.

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

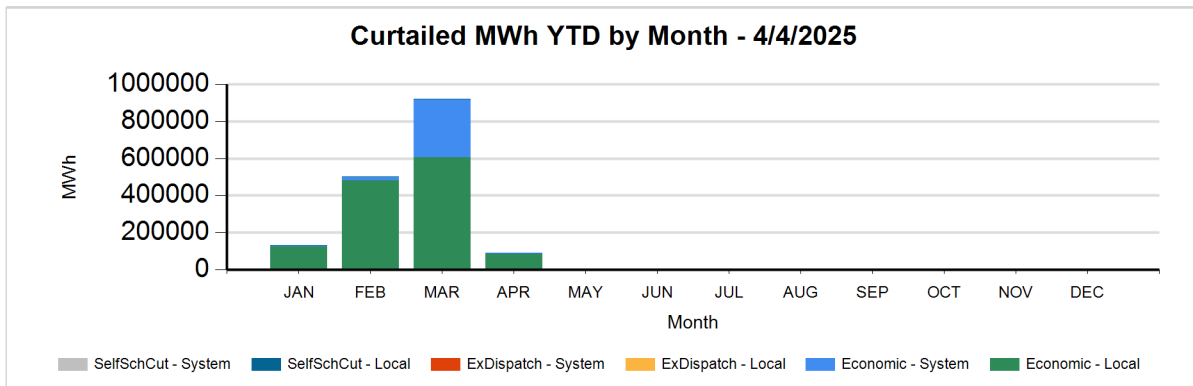
The following charts show the daily and 7-day wind and solar curtailment by category, if any.



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 - 4/4/2025
LocalEconomic	1,295,408
LocalSelfSchCut	232
SystemEconomic	346,797
TOTAL	1,642,437

Data used to produce hourly chart

DATE	HOUR	CURT TYPE	REASON	FUEL TYPE	CURTAILED MWH	CURTAILED MW
04/04	8	Economic	Local	SOLR	81	411
04/04	8	Economic	Local	WIND	6	
04/04	9	Economic	Local	SOLR	1622	2453
04/04	10	Economic	Local	SOLR	2451	3324
04/04	10	Economic	Local	WIND	8	11
04/04	11	Economic	Local	SOLR	3346	3740
04/04	11	Economic	Local	WIND	19	20
04/04	11	SelfSchCut	Local	SOLR	0	
04/04	12	Economic	Local	SOLR	2967	3510
04/04	12	Economic	Local	WIND	12	10
04/04	12	Economic	System	WIND	0	
04/04	12	SelfSchCut	Local	SOLR	3	9
04/04	13	Economic	Local	SOLR	2605	2841
04/04	13	Economic	Local	WIND	7	5
04/04	13	Economic	System	SOLR	5	7
04/04	13	Economic	System	WIND	87	100
04/04	13	SelfSchCut	Local	SOLR	2	
04/04	14	Economic	Local	SOLR	2210	1743
04/04	14	Economic	Local	WIND	14	
04/04	14	Economic	System	SOLR	75	826
04/04	14	Economic	System	WIND	79	130
04/04	14	SelfSchCut	Local	SOLR	2	
04/04	15	Economic	Local	SOLR	2067	2825
04/04	15	Economic	Local	WIND	39	48
04/04	15	Economic	System	SOLR	224	7
04/04	15	Economic	System	WIND	120	108
04/04	15	SelfSchCut	Local	SOLR	1	3
04/04	16	Economic	Local	SOLR	1714	1931
04/04	16	Economic	Local	WIND	12	
04/04	16	Economic	System	SOLR	262	291
04/04	16	Economic	System	WIND	101	142

04/04	16	SelfSchCut	Local	SOLR	0	
04/04	17	Economic	Local	SOLR	3182	4144
04/04	17	Economic	Local	WIND	207	226
04/04	17	Economic	System	SOLR	0	1
04/04	17	Economic	System	WIND	34	19
04/04	18	Economic	Local	SOLR	976	2136
04/04	18	Economic	Local	WIND	49	159
04/04	18	Economic	System	SOLR	3	
04/04	18	Economic	System	WIND	8	23
04/04	19	Economic	Local	SOLR	65	180
04/04	19	Economic	Local	WIND	9	52
04/04	19	Economic	System	SOLR	2	12
04/04	20	Economic	Local	WIND	0	3

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.