

Wind and Solar Curtailment April 19, 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.

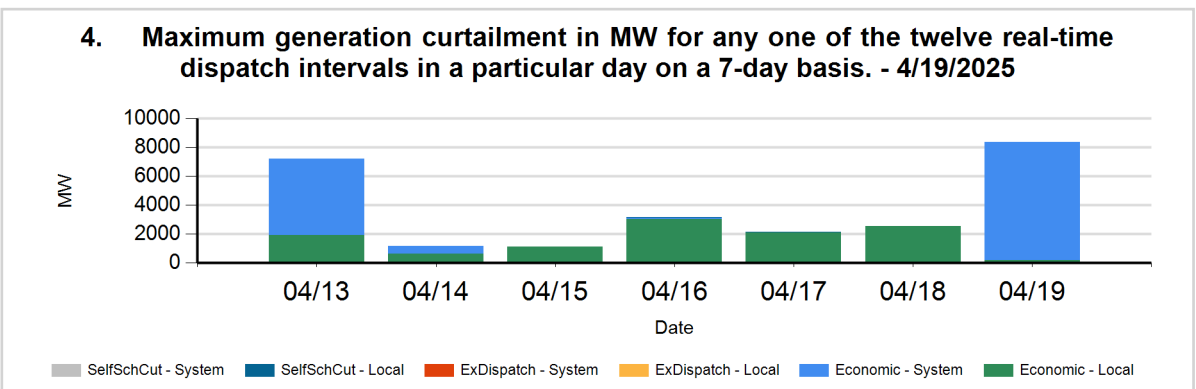
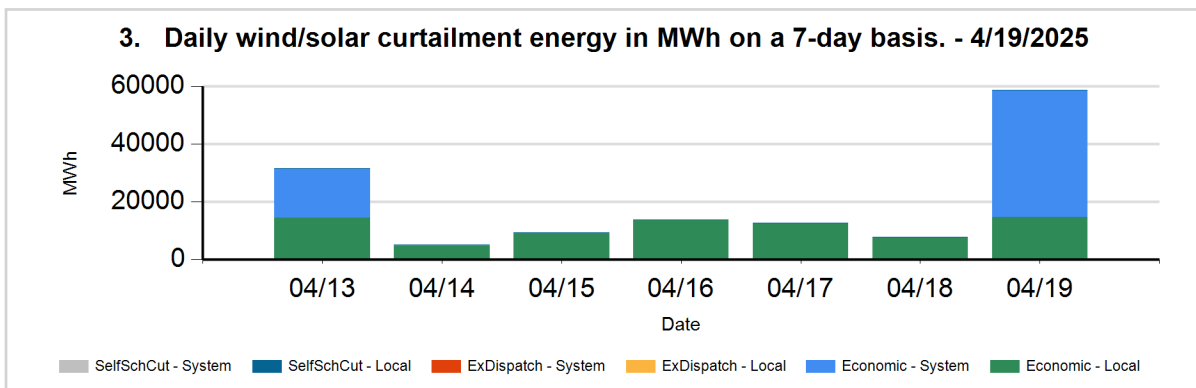
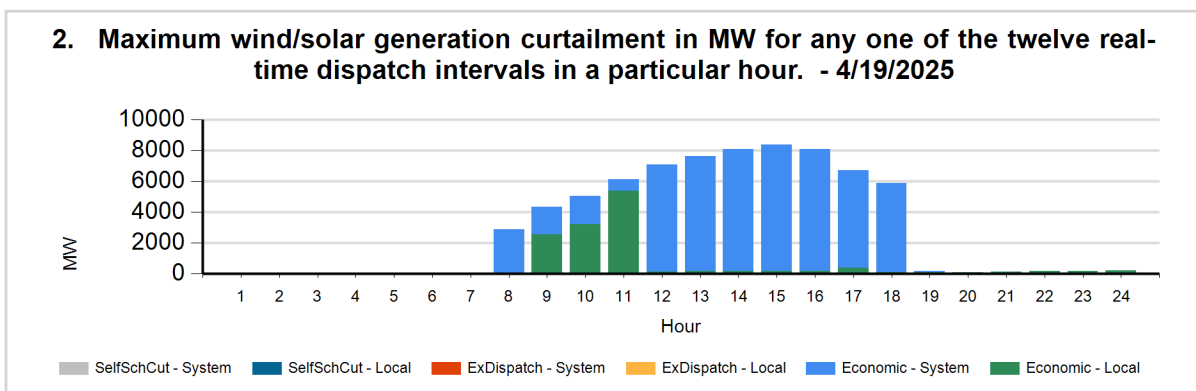
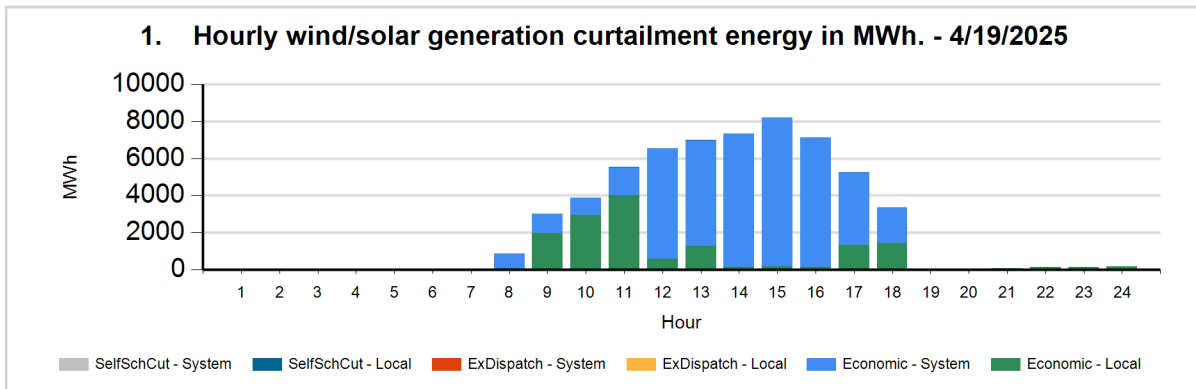
¹Only wind and solar resources can be reported in this manner because these resources have a forecast. Curtailment is defined as the difference between actual production and the forecast when actual production is less than the forecast.

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

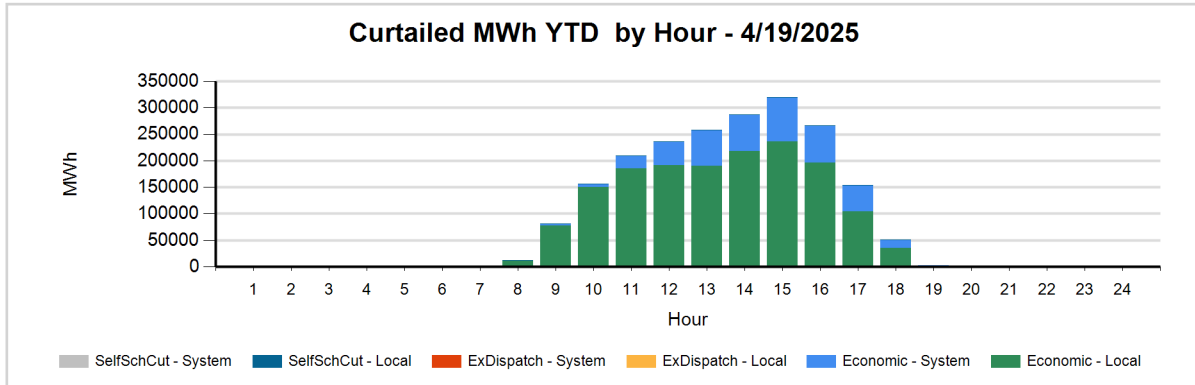
³Congestion occurs when available, least-cost energy cannot be delivered to some loads because transmission facilities do not have sufficient capacity to deliver the energy.

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

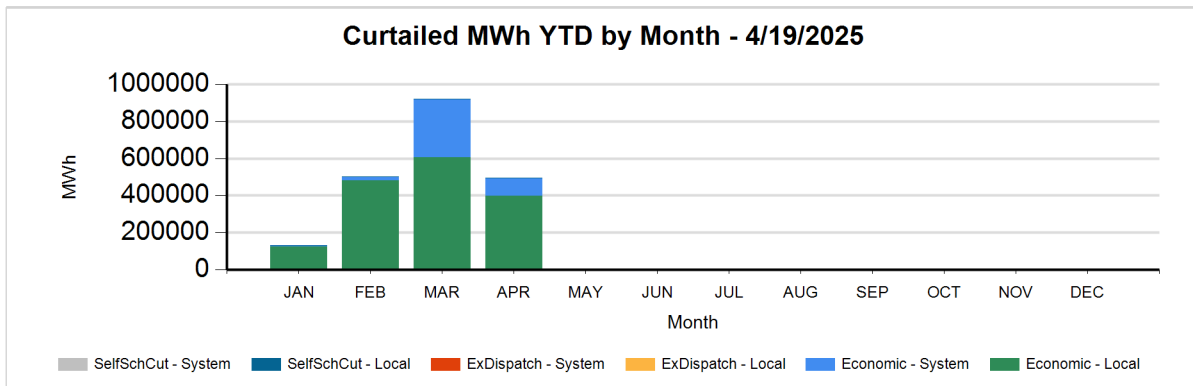
The following charts show the daily and 7-day wind and solar curtailment by category, if any.



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 - 4/19/2025
LocalEconomic	1,610,228
LocalSelfSchCut	375
SystemEconomic	437,345
TOTAL	2,047,948

Data used to produce hourly chart

DATE	HOUR	CURT TYPE	REASON	FUEL TYPE	CURTAILED MWH	CURTAILED MW
04/19	8	Economic	Local	SOLR	66	35
04/19	8	Economic	Local	WIND	2	
04/19	8	Economic	System	SOLR	758	2752
04/19	8	Economic	System	WIND	25	91
04/19	9	Economic	Local	SOLR	1984	2560
04/19	9	Economic	Local	WIND	1	
04/19	9	Economic	System	SOLR	961	1684
04/19	9	Economic	System	WIND	68	81
04/19	10	Economic	Local	SOLR	2917	3162
04/19	10	Economic	Local	WIND	15	56
04/19	10	Economic	System	SOLR	899	1764
04/19	10	Economic	System	WIND	47	55
04/19	11	Economic	Local	SOLR	3939	5282
04/19	11	Economic	Local	WIND	64	87
04/19	11	Economic	System	SOLR	1427	702
04/19	11	Economic	System	WIND	94	74
04/19	11	SelfSchCut	Local	SOLR	1	
04/19	12	Economic	Local	SOLR	590	132
04/19	12	Economic	Local	WIND	10	
04/19	12	Economic	System	SOLR	5816	6873
04/19	12	Economic	System	WIND	128	102
04/19	13	Economic	Local	SOLR	1273	150
04/19	13	Economic	Local	WIND	21	
04/19	13	Economic	System	SOLR	5600	7379
04/19	13	Economic	System	WIND	102	107
04/19	13	SelfSchCut	Local	SOLR	1	
04/19	14	Economic	Local	SOLR	149	147
04/19	14	Economic	System	SOLR	7074	7786
04/19	14	Economic	System	WIND	122	167
04/19	15	Economic	Local	SOLR	152	154
04/19	15	Economic	System	SOLR	7869	7976

04/19	15	Economic	System	WIND	187	237
04/19	16	Economic	Local	SOLR	135	154
04/19	16	Economic	System	SOLR	6719	7647
04/19	16	Economic	System	WIND	288	279
04/19	17	Economic	Local	SOLR	1247	366
04/19	17	Economic	Local	WIND	63	
04/19	17	Economic	System	SOLR	3661	5977
04/19	17	Economic	System	WIND	293	369
04/19	18	Economic	Local	SOLR	1306	88
04/19	18	Economic	Local	WIND	109	
04/19	18	Economic	System	SOLR	1813	5439
04/19	18	Economic	System	WIND	115	370
04/19	19	Economic	Local	SOLR	16	83
04/19	19	Economic	System	SOLR	7	78
04/19	19	Economic	System	WIND	0	5
04/19	20	Economic	Local	WIND	36	70
04/19	21	Economic	Local	WIND	79	105
04/19	22	Economic	Local	WIND	118	146
04/19	23	Economic	Local	WIND	135	168
04/19	24	Economic	Local	WIND	153	187

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.