

Wind and Solar Curtailment April 29, 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.

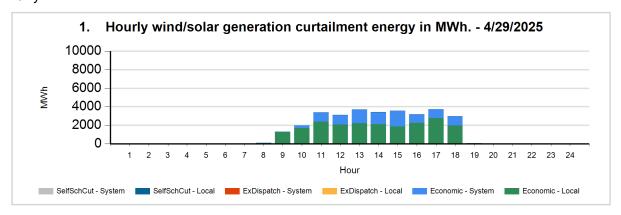
²The Renewables Watch report provides daily actual renewable production within the ISO grid. It is available at: http://www.caiso.com/green/renewableswatch.html.

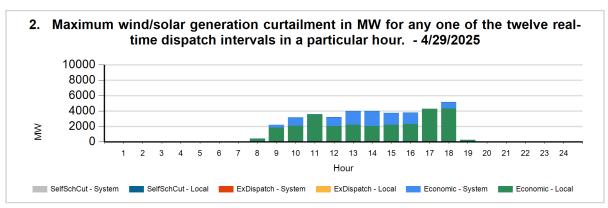
³Congestion occurs when available, least-cost energy cannot be delivered to some loads because transmission facilities do not have sufficient capacity to deliver the energy.

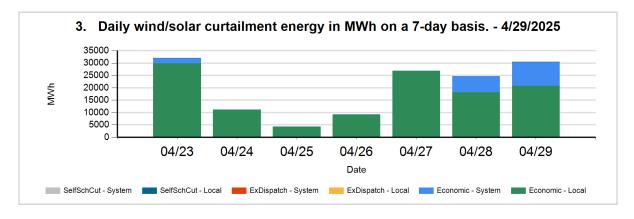
⁴For more information on oversupply conditions, please see: https://www.caiso.com/Documents/FlexibleResourcesHelpRenewables FastFacts.pdf

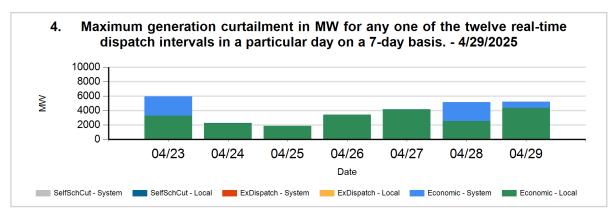


The following charts show the daily and 7-day wind and solar curtailment by category, if any.



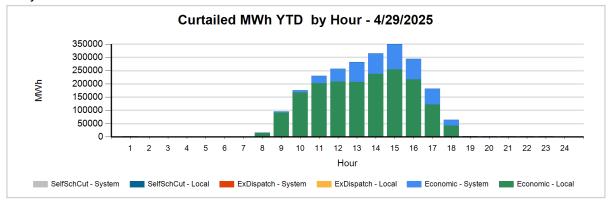




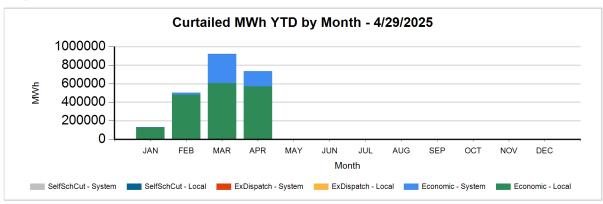




The following charts show hourly year to date wind and solar curtailment by category, if any.



The following charts show monthly year to date wind and solar curtailment by category, if any.



TYPE	YTD CURTAILED MWH - 4/29/2025
LocalEconomic	1,782,355
LocalSelfSchCut	601
SystemEconomic	500,601
TOTAL	2,283,557



Data used to produce hourly chart

04/29 8 Economic System SOLR 3 1 04/29 8 SelfSchCut Local SOLR 1	DATE	HOU R	CURT TYPE	REASON	FUEL TYPE	CURTAILED MWH	CURTAILED MW
04/29 8 SelfSchCut Local SOLR 1 04/29 9 Economic Local SOLR 1278 185 04/29 9 Economic System SOLR 44 34 04/29 10 Economic System WIND 0 3 04/29 10 Economic System SOLR 274 105 04/29 10 Economic System WIND 0 3 04/29 10 Economic System WIND 0 3 04/29 11 Economic Local SOLR 2386 355 04/29 11 Economic Local WIND 0 3 04/29 11 Economic Local WIND 0 3 04/29 11 Economic System SOLR 967 2 04/29 11 SelfSchCut Local SOLR 27 2 04/29 12 Economic Local SOLR 1039 116 04/29 <td>04/29</td> <td>8</td> <td>Economic</td> <td>Local</td> <td>SOLR</td> <td>95</td> <td>392</td>	04/29	8	Economic	Local	SOLR	95	392
04/29 9 Economic Local SOLR 1278 185 04/29 9 Economic System SOLR 44 34 04/29 10 Economic System WIND 0 2 04/29 10 Economic System SOLR 274 105 04/29 10 Economic System WIND 0 0 04/29 10 Economic System WIND 0 3 04/29 11 Economic Local SOLR 20 3 04/29 11 Economic Local WIND 0 3 04/29 11 Economic System SOLR 967 2 04/29 11 Economic System WIND 1 1 04/29 11 SelfSchCut Local SOLR 277 2 04/29 12 Economic Local WIND 0 <td>04/29</td> <td>8</td> <td>Economic</td> <td>System</td> <td>SOLR</td> <td>3</td> <td>18</td>	04/29	8	Economic	System	SOLR	3	18
04/29 9 Economic System SOLR 44 34 04/29 9 Economic System WIND 0 3 04/29 10 Economic Local SOLR 1684 209 04/29 10 Economic System SOLR 274 105 04/29 10 Economic System WIND 0 0 04/29 11 Economic Local SOLR 20 3 04/29 11 Economic Local SOLR 2386 355 04/29 11 Economic Local WIND 0 3 04/29 11 Economic System SOLR 967 2 04/29 11 Economic System WIND 1 4 04/29 12 Economic Local SOLR 2075 205 04/29 12 Economic System SOLR <td< td=""><td>04/29</td><td>8</td><td>SelfSchCut</td><td>Local</td><td>SOLR</td><td>1</td><td>4</td></td<>	04/29	8	SelfSchCut	Local	SOLR	1	4
04/29 9 Economic System WIND 0	04/29	9	Economic	Local	SOLR	1278	1852
04/29 10 Economic Local SOLR 1684 209 04/29 10 Economic System SOLR 274 105 04/29 10 Economic System WIND 0 04/29 10 SelfSchCut Local SOLR 20 3 04/29 11 Economic Local SOLR 2386 355 04/29 11 Economic Local WIND 0 3 04/29 11 Economic System SOLR 967 2 04/29 11 Economic System WIND 1 1 04/29 11 Economic System WIND 1 1 04/29 12 Economic Local SOLR 2075 205 04/29 12 Economic System SOLR 1039 116 04/29 12 Economic System WIND 0	04/29	9	Economic	System	SOLR	44	346
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04/29 11 Economic System SOLR 967 2 04/29 11 Economic System WIND 1 04/29 11 SelfSchCut Local SOLR 27 2 04/29 12 Economic Local SOLR 2075 205 04/29 12 Economic Local WIND 0 0 04/29 12 Economic System SOLR 1039 116 04/29 12 Economic System WIND 0 0 04/29 12 SelfSchCut Local SOLR 4 1 04/29 13 Economic Local SOLR 2227 219 04/29 13 Economic System SOLR 1430 176 04/29 13 Economic System WIND 5 1 04/29 14 Economic Local SOLR 2100	04/29	11	Economic	Local	SOLR	2386	3551
04/29 11 Economic System WIND 1 04/29 11 SelfSchCut Local SOLR 27 2 04/29 12 Economic Local SOLR 2075 205 04/29 12 Economic Local WIND 0 0 04/29 12 Economic System SOLR 1039 116 04/29 12 Economic System WIND 0 0 04/29 12 SelfSchCut Local SOLR 4 1 04/29 13 Economic Local SOLR 2227 219 04/29 13 Economic System WIND 5 5 04/29 13 Economic System WIND 5 6 04/29 14 Economic Local SOLR 2100 204 04/29 14 Economic System WIND 14	04/29	11	Economic	Local	WIND	0	2
04/29 11 SelfSchCut Local SOLR 27 2 04/29 12 Economic Local SOLR 2075 205 04/29 12 Economic Local WIND 0 0 04/29 12 Economic System SOLR 1039 116 04/29 12 Economic System WIND 0 04/29 12 SelfSchCut Local SOLR 4 1 04/29 13 Economic Local SOLR 2227 219 04/29 13 Economic System SOLR 1430 176 04/29 13 SelfSchCut Local SOLR 27 2 04/29 13 SelfSchCut Local SOLR 2100 204 04/29 14 Economic Local WIND 3 204 04/29 14 Economic System SOLR 1295 </td <td>04/29</td> <td>11</td> <td>Economic</td> <td>System</td> <td>SOLR</td> <td>967</td> <td>22</td>	04/29	11	Economic	System	SOLR	967	22
04/29 12 Economic Local SOLR 2075 205 04/29 12 Economic Local WIND 0 04/29 12 Economic System SOLR 1039 116 04/29 12 Economic System WIND 0 04/29 12 SelfSchCut Local SOLR 4 1 04/29 13 Economic Local SOLR 2227 219 04/29 13 Economic System SOLR 1430 176 04/29 13 Economic System WIND 5 5 04/29 13 SelfSchCut Local SOLR 27 2 04/29 14 Economic Local SOLR 2100 204 04/29 14 Economic Local WIND 3 04/29 14 Economic System SOLR 1295 188 04/29 14 Economic System WIND 14 4 04/29 14 SelfSchCut Local SOLR 5 04/29 15 Economic Loc	04/29	11	Economic	System	WIND	1	
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04/29 12 Economic System SOLR 1039 116 04/29 12 Economic System WIND 0 04/29 12 SelfSchCut Local SOLR 4 1: 04/29 13 Economic Local SOLR 2227 219 04/29 13 Economic System SOLR 1430 176 04/29 13 Economic System WIND 5 5 04/29 13 SelfSchCut Local SOLR 27 2 04/29 14 Economic Local SOLR 2100 204 04/29 14 Economic Local WIND 3 04/29 14 Economic System SOLR 1295 188 04/29 14 Economic System WIND 14 4 04/29 14 SelfSchCut Local SOLR 5 04/29 15 Economic Local SOLR 1858 220	04/29	12	Economic	Local	SOLR	2075	2052
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04/29 13 Economic Local SOLR 2227 219 04/29 13 Economic System SOLR 1430 176 04/29 13 Economic System WIND 5 6 04/29 13 SelfSchCut Local SOLR 27 22 04/29 14 Economic Local SOLR 2100 204 04/29 14 Economic Local WIND 3 04/29 14 Economic System SOLR 1295 188 04/29 14 Economic System WIND 14 4 04/29 14 SelfSchCut Local SOLR 5 04/29 15 Economic Local SOLR 1858 220	04/29	12	Economic	System	WIND	0	
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04/29 13 Economic System WIND 5 04/29 13 SelfSchCut Local SOLR 27 22 04/29 14 Economic Local SOLR 2100 204 04/29 14 Economic Local WIND 3 04/29 14 Economic System SOLR 1295 188 04/29 14 Economic System WIND 14 4 04/29 14 SelfSchCut Local SOLR 5 04/29 15 Economic Local SOLR 1858 220	04/29	13	Economic	Local	SOLR	2227	2198
04/29 13 SelfSchCut Local SOLR 27 2 04/29 14 Economic Local SOLR 2100 204 04/29 14 Economic Local WIND 3 04/29 14 Economic System SOLR 1295 188 04/29 14 Economic System WIND 14 4 04/29 14 SelfSchCut Local SOLR 5 04/29 15 Economic Local SOLR 1858 220	04/29	13	Economic	System	SOLR	1430	1769
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04/29 14 Economic System SOLR 1295 188 04/29 14 Economic System WIND 14 4 04/29 14 SelfSchCut Local SOLR 5 6 04/29 15 Economic Local SOLR 1858 220	04/29	14	Economic	Local	SOLR	2100	2044
04/29 14 Economic System WIND 14 4 04/29 14 SelfSchCut Local SOLR 5 6 04/29 15 Economic Local SOLR 1858 220	04/29	14	Economic	Local	WIND	3	
04/29 14 SelfSchCut Local SOLR 5 04/29 15 Economic Local SOLR 1858 220	04/29	14	Economic	System	SOLR	1295	1884
04/29 15 Economic Local SOLR 1858 220	04/29	14	Economic	System	WIND	14	47
	04/29	14	SelfSchCut	Local	SOLR	5	6
04/29 15 Economic System SOLR 1620 148	04/29	15	Economic	Local	SOLR	1858	2205
	04/29	15	Economic	System	SOLR	1620	1482



42	64	WIND	System	Economic	15	04/29
18	20	SOLR	Local	SelfSchCut	15	04/29
2276	2239	SOLR	Local	6 Economic	16	04/29
	22	WIND	Local	6 Economic	16	04/29
1450	862	SOLR	System	Economic	16	04/29
48	49	WIND	System	Economic	16	04/29
26	25	SOLR	Local	SelfSchCut	16	04/29
4125	2678	SOLR	Local	7 Economic	17	04/29
163	75	WIND	Local	7 Economic	17	04/29
	904	SOLR	System	7 Economic	17	04/29
	78	WIND	System	7 Economic	17	04/29
3968	1799	SOLR	Local	B Economic	18	04/29
362	165	WIND	Local	B Economic	18	04/29
808	906	SOLR	System	B Economic	18	04/29
15	85	WIND	System	B Economic	18	04/29
25	16	SOLR	Local	3 SelfSchCut	18	04/29
260	48	SOLR	Local	Economic	19	04/29
	6	SOLR	System	Economic	19	04/29
5	1	SOLR	Local	SelfSchCut	19	04/29
14	2	SOLR	Local	Economic	20	04/29

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.