

Wind and Solar Curtailment May 22, 2023

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 oversupply.
- 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.

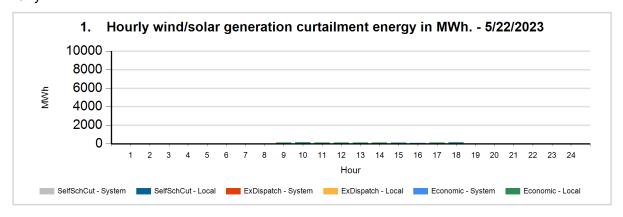
²The Renewables Watch report provides daily actual renewable production within the ISO grid. It is available at: http://www.caiso.com/green/renewableswatch.html.

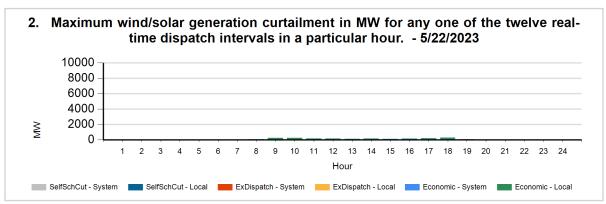
³Congestion occurs when available, least-cost energy cannot be delivered to some loads because transmission facilities do not have sufficient capacity to deliver the energy.

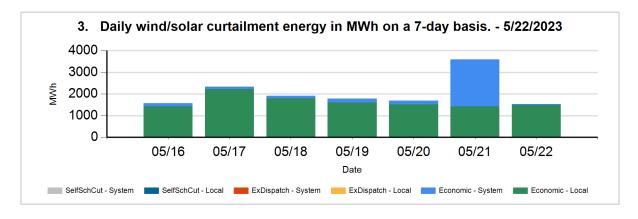
For more information on oversupply conditions, please see: https://www.caiso.com/Documents/FlexibleResourcesHelpRenewables FastFacts.pdf

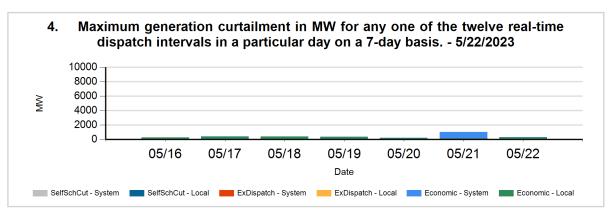


The following charts show the daily and 7-day wind and solar curtailment by category, if any.



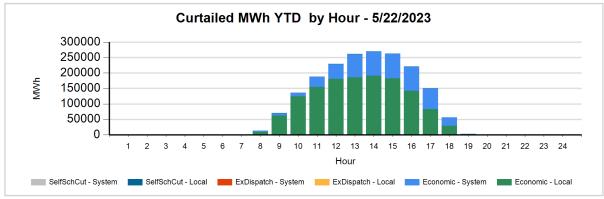




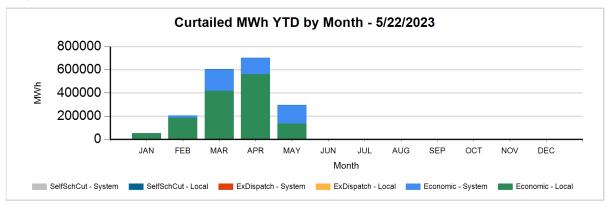




The following charts show hourly year to date wind and solar curtailment by category, if any.



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



TYPE	YTD CURTAILED MWH - 5/22/2023
LocalEconomic	1,348,322
LocalSelfSchCut	510
SystemEconomic	514,472
TOTAL	1,863,303



Data used to produce hourly chart

05/22 14 SelfSchCut Local SOLR 0 05/22 15 Economic Local SOLR 128 127 05/22 15 Economic System SOLR 2 9 05/22 16 Economic Local SOLR 108 105 05/22 16 Economic System SOLR 9 58 05/22 16 SelfSchCut Local SOLR 0 05/22 17 Economic Local SOLR 138 196 05/22 18 Economic Local SOLR 135 252 05/22 18 Economic Local WIND 9 05/22 18 Economic System SOLR 20 35 05/22 19 Economic Local WIND 15 16 05/22 19 Economic Local WIND 15 16 <t< th=""><th>DATE</th><th>HOU R</th><th>CURT TYPE</th><th>REASON</th><th>FUEL TYPE</th><th>CURTAILED MWH</th><th>CURTAILED MW</th></t<>	DATE	HOU R	CURT TYPE	REASON	FUEL TYPE	CURTAILED MWH	CURTAILED MW
05/22 3 Economic Local WIND 0 3 05/22 4 Economic Local WIND 1 5 05/22 5 Economic Local WIND 1 6 05/22 7 Economic Local SOLR 1 6 05/22 8 Economic Local SOLR 23 60 05/22 8 Economic System SOLR 4 3 05/22 9 Economic Local SOLR 138 231 05/22 9 Economic Local SOLR 0 0 05/22 10 Economic Local SOLR 155 252 05/22 11 Economic Local SOLR 139 150 05/22 11 Economic Local SOLR 139 150 05/22 12 Economic Local SOLR 131	05/22	1	Economic	Local	WIND	6	9
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05/22 5 Economic Local WIND 1 5 05/22 7 Economic Local SOLR 1 6 05/22 8 Economic Local SOLR 23 60 05/22 8 Economic System SOLR 4 3 05/22 9 Economic Local SOLR 0 0 05/22 10 Economic Local SOLR 0 0 05/22 10 Economic Local SOLR 0 0 05/22 10 Economic Local SOLR 4 0 05/22 11 Economic Local SOLR 139 150 05/22 11 Economic Local SOLR 139 150 05/22 11 Economic Local SOLR 137 140 05/22 13 Economic Local SOLR 136 <	05/22	3	Economic	Local	WIND	0	3
05/22 7 Economic Local SOLR 1 6 05/22 8 Economic Local SOLR 23 60 05/22 8 Economic System SOLR 4 3 05/22 9 Economic Local SOLR 0 0 05/22 10 Economic System SOLR 0 0 05/22 10 Economic Local SOLR 4 0 05/22 10 Economic Local SOLR 4 0 05/22 11 Economic Local SOLR 139 150 05/22 11 Economic Local SOLR 139 150 05/22 11 SelfSchCut Local SOLR 133 144 05/22 13 Economic Local SOLR 136 160 05/22 14 Economic Local SOLR 128	05/22	4	Economic	Local	WIND	1	5
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Description	05/22	8	Economic	Local	SOLR	23	60
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05/22	21	Economic	Local	WIND	12	13
05/22	22	Economic	Local	WIND	12	13
05/22	23	Economic	Local	WIND	13	13
05/22	24	Economic	Local	WIND	11	13

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