

Wind and Solar Curtailment April 02, 2024

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:

- 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.

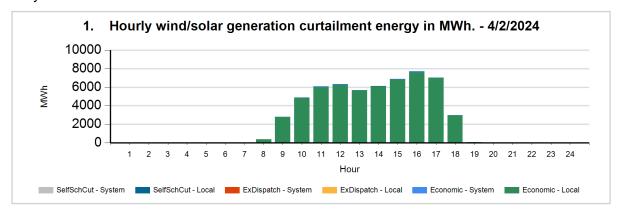
²The Renewables Watch report provides daily actual renewable production within the ISO grid. It is available at: http://www.caiso.com/green/renewableswatch.html.

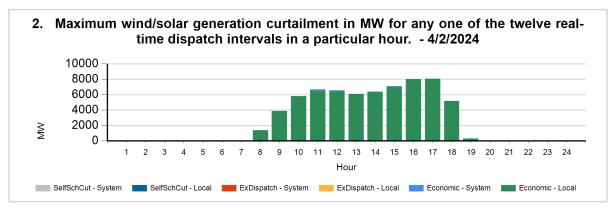
³Congestion occurs when available, least-cost energy cannot be delivered to some loads because transmission facilities do not have sufficient capacity to deliver the energy.

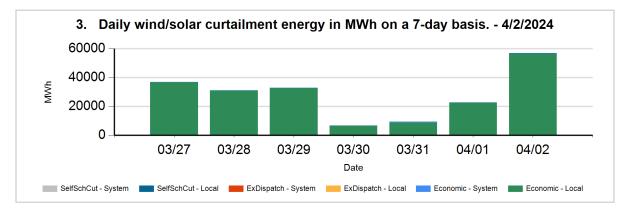
For more information on oversupply conditions, please see: https://www.caiso.com/Documents/FlexibleResourcesHelpRenewables FastFacts.pdf

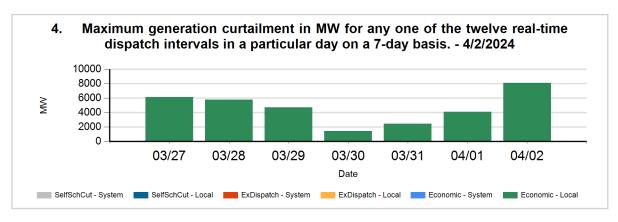


The following charts show the daily and 7-day wind and solar curtailment by category, if any.



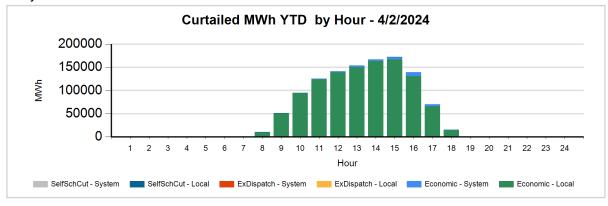




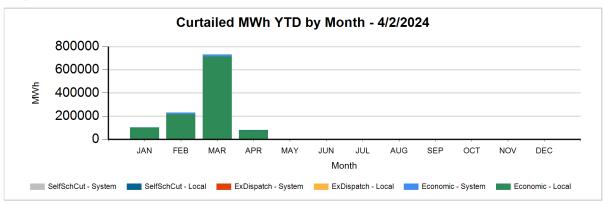




The following charts show hourly year to date wind and solar curtailment by category, if any.



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



TYPE	YTD CURTAILED MWH - 4/2/2024
LocalEconomic	1,109,562
LocalSelfSchCut	511
SystemEconomic	29,736
TOTAL	1,139,810



Data used to produce hourly chart

DATE	HOU R	CURT TYPE	REASON	FUEL TYPE	CURTAILED MWH	CURTAILED MW
04/02	7	Economic	Local	SOLR	3	24
04/02	8	Economic	Local	SOLR	351	1278
04/02	8	Economic	Local	WIND	42	107
04/02	9	Economic	Local	SOLR	2740	3821
04/02	9	Economic	Local	WIND	48	67
04/02	10	Economic	Local	SOLR	4758	5663
04/02	10	Economic	Local	WIND	125	137
04/02	10	SelfSchCut	Local	SOLR	1	2
04/02	11	Economic	Local	SOLR	5817	6267
04/02	11	Economic	Local	WIND	175	211
04/02	11	Economic	System	SOLR	93	171
04/02	11	SelfSchCut	Local	SOLR	7	8
04/02	12	Economic	Local	SOLR	5984	6169
04/02	12	Economic	Local	WIND	229	244
04/02	12	Economic	System	SOLR	93	100
04/02	12	SelfSchCut	Local	SOLR	12	15
04/02	13	Economic	Local	SOLR	5443	5881
04/02	13	Economic	Local	WIND	225	210
04/02	13	Economic	System	SOLR	4	
04/02	13	SelfSchCut	Local	SOLR	9	4
04/02	14	Economic	Local	SOLR	5926	6189
04/02	14	Economic	Local	WIND	170	190
04/02	14	Economic	System	SOLR	33	
04/02	14	SelfSchCut	Local	SOLR	5	6
04/02	15	Economic	Local	SOLR	6625	6752
04/02	15	Economic	Local	WIND	175	199
04/02	15	Economic	System	SOLR	64	118
04/02	15	SelfSchCut	Local	SOLR	4	2
04/02	16	Economic	Local	SOLR	7458	7784
04/02	16	Economic	Local	WIND	165	175
04/02	16	Economic	System	SOLR	75	54



04/02	16	SelfSchCut	Local	SOLR	10	11
04/02	17	Economic	Local	SOLR	6869	7951
04/02	17	Economic	Local	WIND	117	101
04/02	17	Economic	System	SOLR	31	
04/02	17	Economic	System	WIND	1	
04/02	17	SelfSchCut	Local	SOLR	7	11
04/02	18	Economic	Local	SOLR	2868	5043
04/02	18	Economic	Local	WIND	85	135
04/02	18	Economic	System	SOLR	9	
04/02	18	SelfSchCut	Local	SOLR	2	9
04/02	19	Economic	Local	SOLR	67	242
04/02	19	Economic	Local	WIND	4	42
04/02	19	SelfSchCut	Local	SOLR	1	5
04/02	21	Economic	System	WIND	1	16

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.