

## Wind and Solar Curtailment May 01, 2025

This report is produced daily to provide a detailed accounting of the wind and solar renewable generation that was curtailed and the reasons why<sup>1</sup>. This report should be read in the context of the Renewables Watch report for a more complete understanding of both renewable curtailment and generation<sup>2</sup>.

Wind and solar curtailments are grouped into the following categories:

1. Economic - Local: Market dispatch of generators with economic bids to mitigate local congestion<sup>3</sup>.
2. Economic - System: Market dispatch of generators with economic bids to mitigate system-wide oversupply<sup>4</sup>.
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.

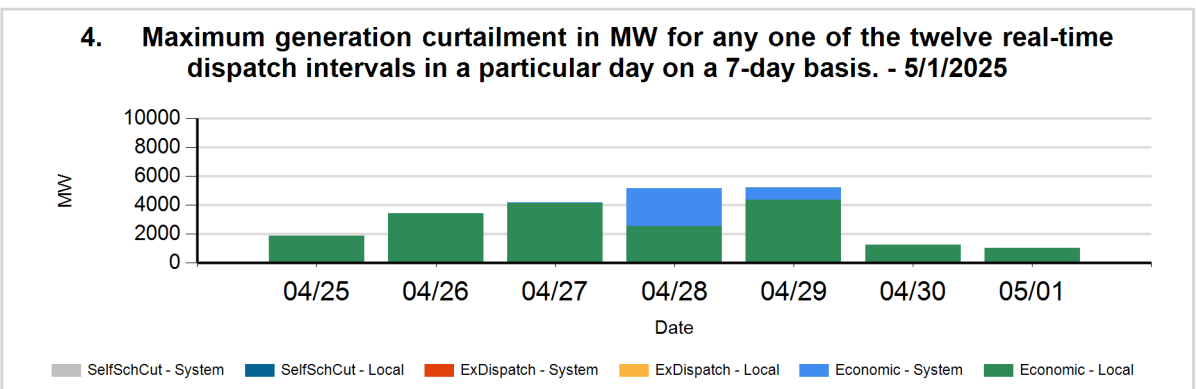
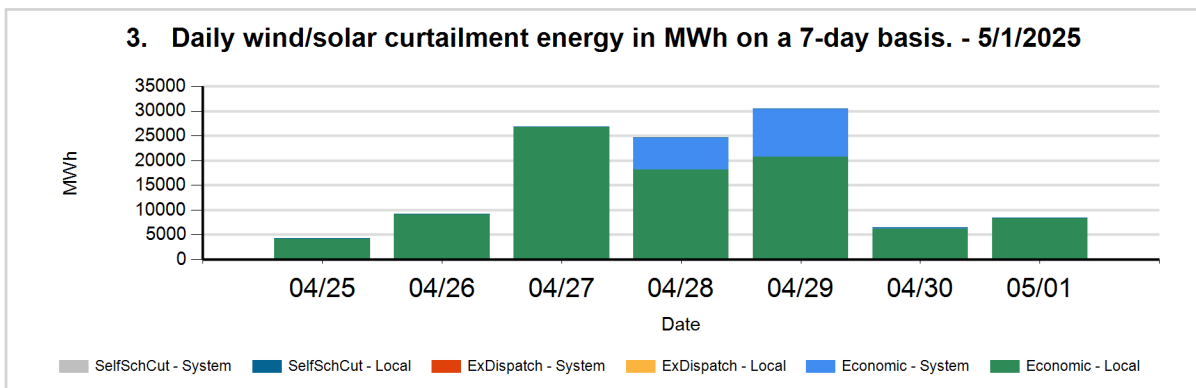
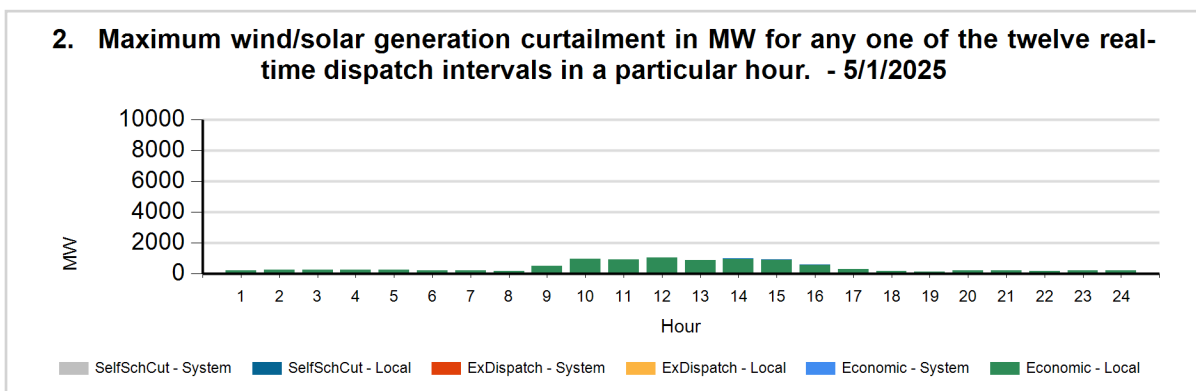
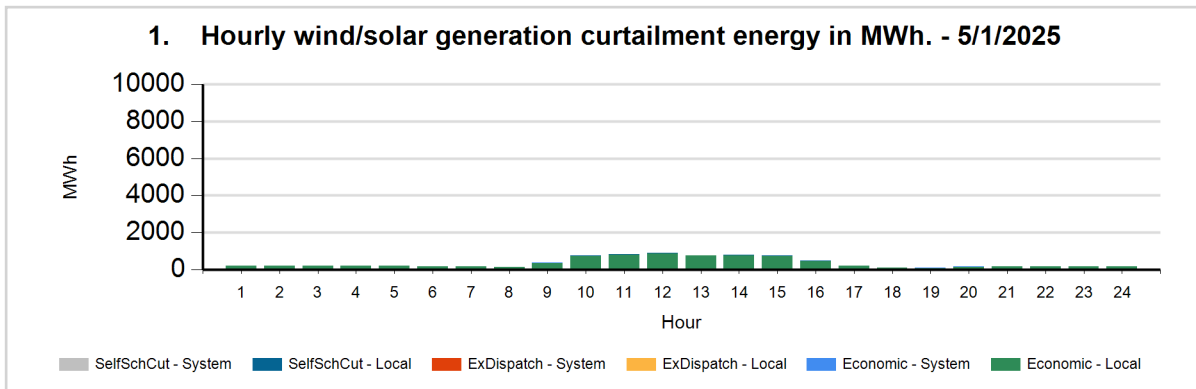
<sup>1</sup>Only wind and solar resources can be reported in this manner because these resources have a forecast. Curtailment is defined as the difference between actual production and the forecast when actual production is less than the forecast.

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

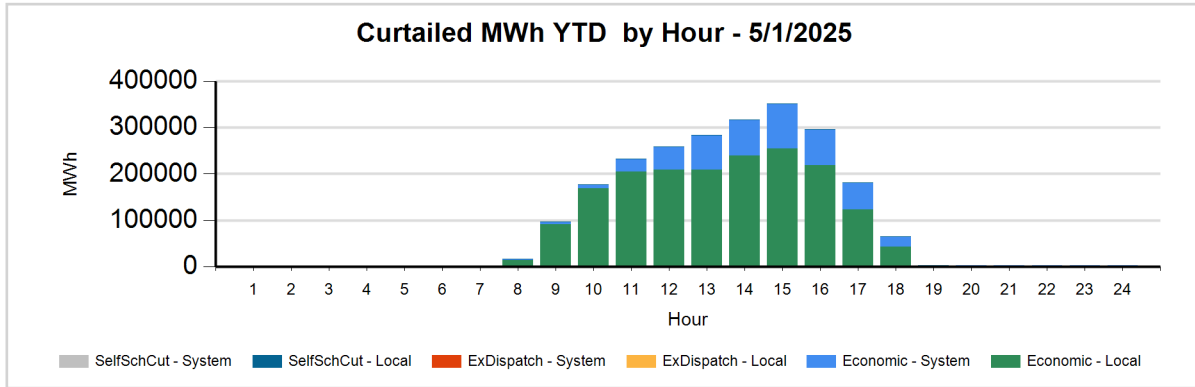
<sup>3</sup>Congestion occurs when available, least-cost energy cannot be delivered to some loads because transmission facilities do not have sufficient capacity to deliver the energy.

<sup>4</sup>For more information on oversupply conditions, please see: [http://www.caiso.com/Documents/FlexibleResourcesHelpRenewables\\_FastFacts.pdf](http://www.caiso.com/Documents/FlexibleResourcesHelpRenewables_FastFacts.pdf)

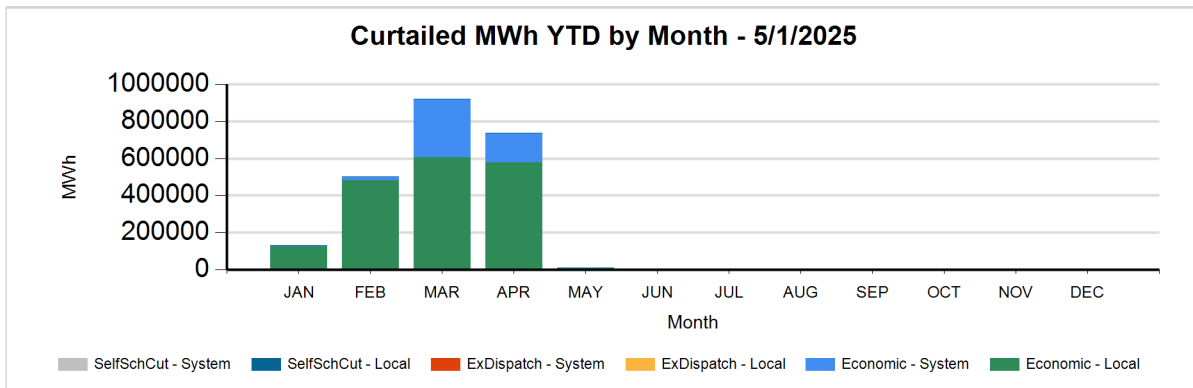
The following charts show the daily and 7-day wind and solar curtailment by category, if any.



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 - 5/1/2025
LocalEconomic	1,797,072
LocalSelfSchCut	632
SystemEconomic	500,658
TOTAL	2,298,361

### Data used to produce hourly chart

DATE	HOUR	CURT TYPE	REASON	FUEL TYPE	CURTAILED MWH	CURTAILED MW
05/01	1	Economic	Local	WIND	192	216
05/01	2	Economic	Local	WIND	221	242
05/01	3	Economic	Local	WIND	219	236
05/01	4	Economic	Local	WIND	218	244
05/01	5	Economic	Local	WIND	197	233
05/01	6	Economic	Local	WIND	178	217
05/01	7	Economic	Local	WIND	173	188
05/01	8	Economic	Local	SOLR	27	140
05/01	8	Economic	Local	WIND	102	23
05/01	9	Economic	Local	SOLR	375	489
05/01	9	Economic	Local	WIND	6	
05/01	9	Economic	System	SOLR	3	
05/01	10	Economic	Local	SOLR	768	967
05/01	10	SelfSchCut	Local	SOLR	1	
05/01	11	Economic	Local	SOLR	814	907
05/01	11	SelfSchCut	Local	SOLR	1	
05/01	12	Economic	Local	SOLR	879	1019
05/01	12	SelfSchCut	Local	SOLR	2	
05/01	13	Economic	Local	SOLR	774	874
05/01	14	Economic	Local	SOLR	772	954
05/01	14	Economic	System	SOLR	2	19
05/01	14	Economic	System	WIND	1	8
05/01	14	SelfSchCut	Local	SOLR	2	
05/01	15	Economic	Local	SOLR	742	906
05/01	15	SelfSchCut	Local	SOLR	3	10
05/01	16	Economic	Local	SOLR	475	585
05/01	16	SelfSchCut	Local	SOLR	1	9
05/01	17	Economic	Local	SOLR	192	278
05/01	18	Economic	Local	SOLR	107	158
05/01	18	Economic	Local	WIND	1	
05/01	19	Economic	Local	SOLR	27	

05/01	19	Economic	Local	WIND	60	137
05/01	19	Economic	System	SOLR	9	
05/01	19	SelfSchCut	Local	SOLR	0	
05/01	20	Economic	Local	WIND	160	191
05/01	20	Economic	System	SOLR	2	
05/01	21	Economic	Local	WIND	164	187
05/01	22	Economic	Local	WIND	170	180
05/01	23	Economic	Local	WIND	174	185
05/01	24	Economic	Local	WIND	163	190

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](mailto:ShortTermForecasting@caiso.com).