

## Wind and Solar Curtailment May 16, 2024

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.

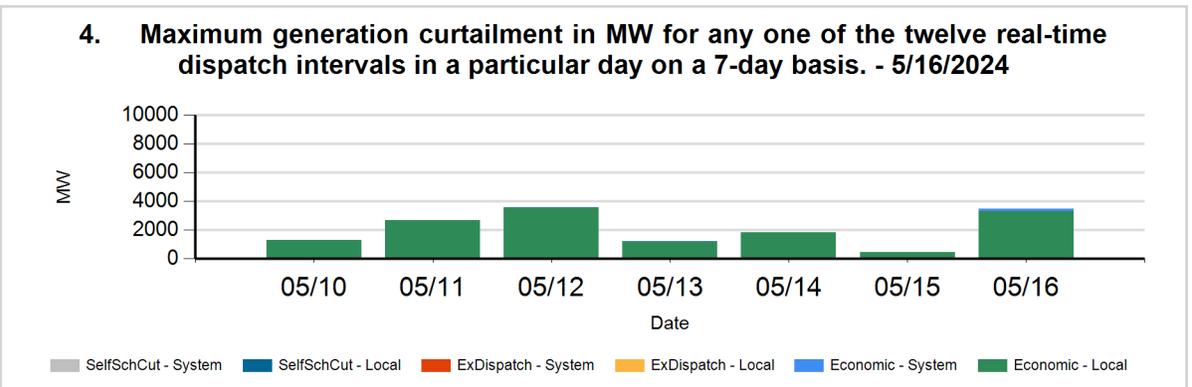
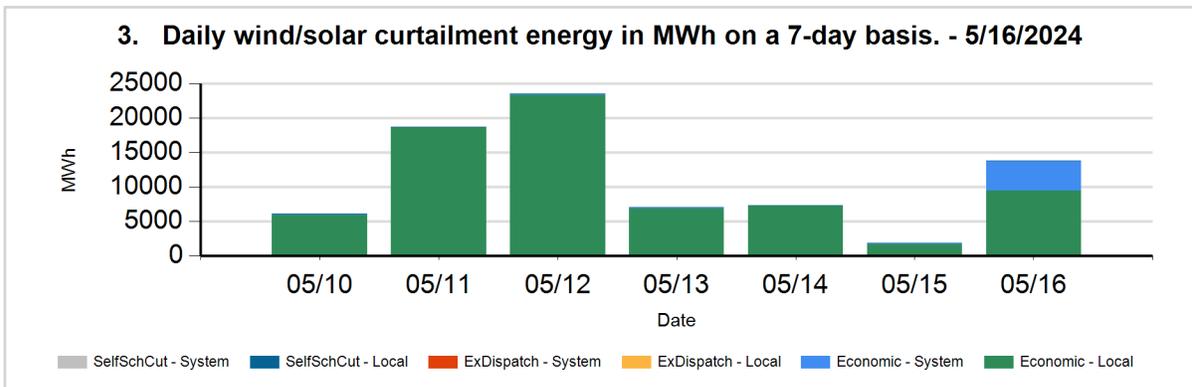
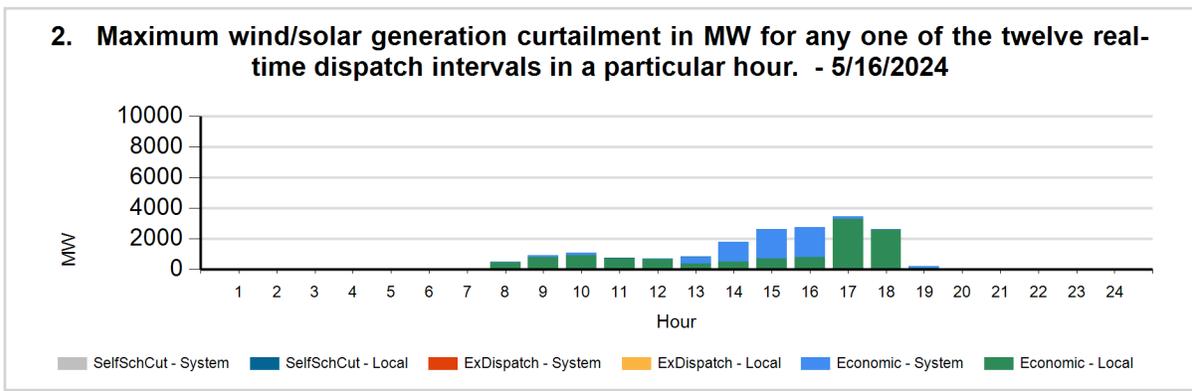
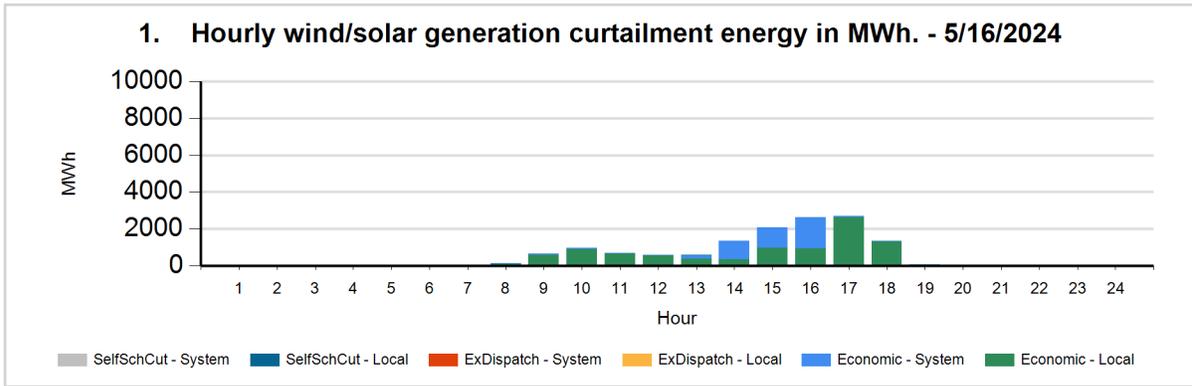
<sup>2</sup>The Renewables Watch report provides daily actual renewable production within the ISO grid. It is available at: <http://www.caiso.com/green/renewableswatch.html>.

<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.

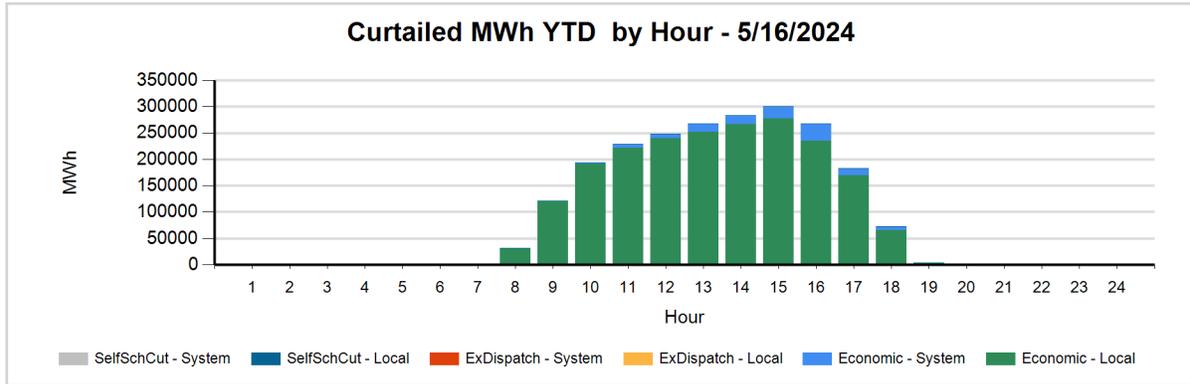
<sup>4</sup>For more information on oversupply conditions, please see:

[https://www.caiso.com/Documents/FlexibleResourcesHelpRenewables\\_FastFacts.pdf](https://www.caiso.com/Documents/FlexibleResourcesHelpRenewables_FastFacts.pdf)

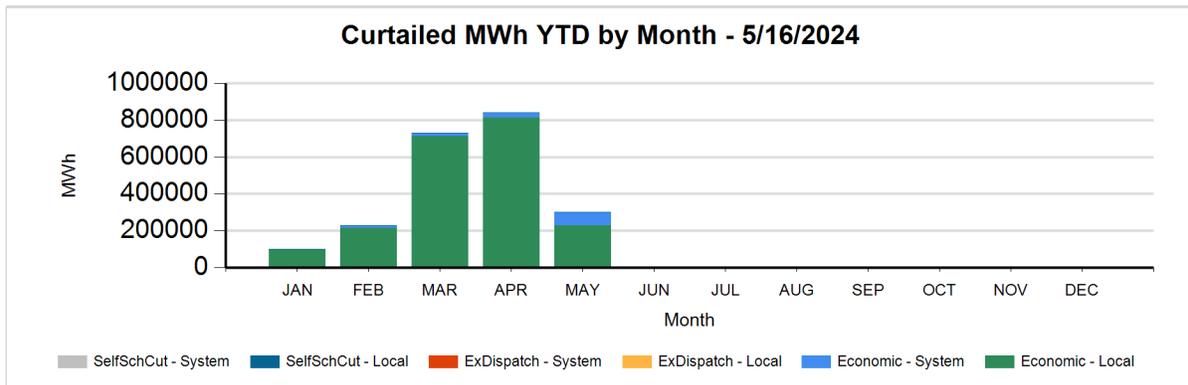
The following charts show the daily and 7-day wind and solar curtailment by category, if any.



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 - 5/16/2024
LocalEconomic	2,071,364
LocalSelfSchCut	1,455
SystemEconomic	128,523
<b>TOTAL</b>	<b>2,201,341</b>

**Data used to produce hourly chart**

DATE	HOUR	CURT TYPE	REASON	FUEL TYPE	CURTAILED MWH	CURTAILED MW
05/16	6	Economic	Local	WIND	3	7
05/16	7	Economic	System	SOLR	2	12
05/16	8	Economic	Local	SOLR	121	468
05/16	8	Economic	System	SOLR	8	8
05/16	8	Economic	System	WIND	3	20
05/16	9	Economic	Local	SOLR	592	786
05/16	9	Economic	System	SOLR	25	112
05/16	9	Economic	System	WIND	21	34
05/16	10	Economic	Local	SOLR	905	893
05/16	10	Economic	System	SOLR	41	151
05/16	10	Economic	System	WIND	24	30
05/16	11	Economic	Local	SOLR	691	725
05/16	11	Economic	System	SOLR	7	18
05/16	11	SelfSchCut	Local	SOLR	0	2
05/16	12	Economic	Local	SOLR	545	659
05/16	12	Economic	System	SOLR	33	28
05/16	12	Economic	System	WIND	2	
05/16	12	SelfSchCut	Local	SOLR	0	
05/16	13	Economic	Local	SOLR	372	390
05/16	13	Economic	System	SOLR	188	365
05/16	13	Economic	System	WIND	21	53
05/16	13	SelfSchCut	Local	SOLR	4	9
05/16	14	Economic	Local	SOLR	351	479
05/16	14	Economic	System	SOLR	879	1146
05/16	14	Economic	System	WIND	120	168
05/16	15	Economic	Local	SOLR	913	717
05/16	15	Economic	Local	WIND	40	
05/16	15	Economic	System	SOLR	939	1570
05/16	15	Economic	System	WIND	197	333
05/16	16	Economic	Local	SOLR	904	802
05/16	16	Economic	Local	WIND	22	

05/16	16	Economic	System	SOLR	1400	1597
05/16	16	Economic	System	WIND	289	366
05/16	17	Economic	Local	SOLR	2227	2713
05/16	17	Economic	Local	WIND	390	570
05/16	17	Economic	System	SOLR	79	159
05/16	17	Economic	System	WIND	8	29
05/16	18	Economic	Local	SOLR	1123	2272
05/16	18	Economic	Local	WIND	196	302
05/16	18	Economic	System	SOLR	26	58
05/16	18	Economic	System	WIND	5	
05/16	19	Economic	Local	SOLR	26	63
05/16	19	Economic	System	SOLR	26	131

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).