

## Wind and Solar Curtailment May 31, 2022

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.

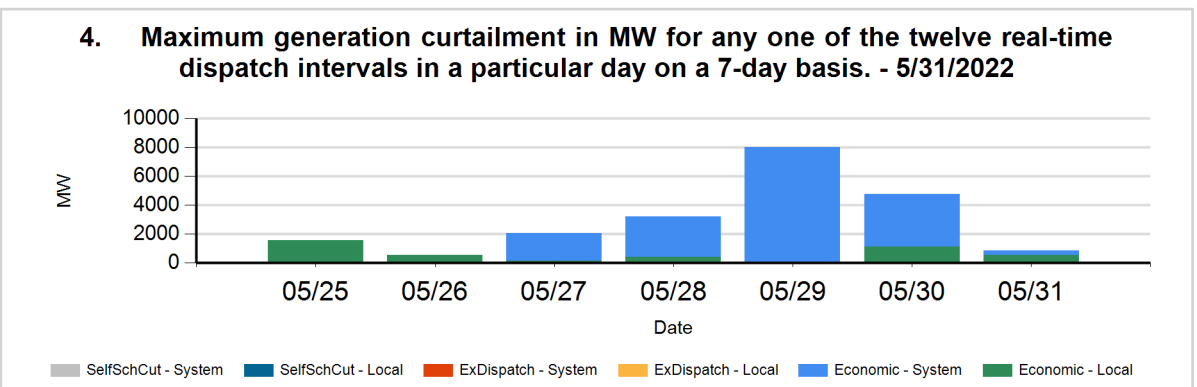
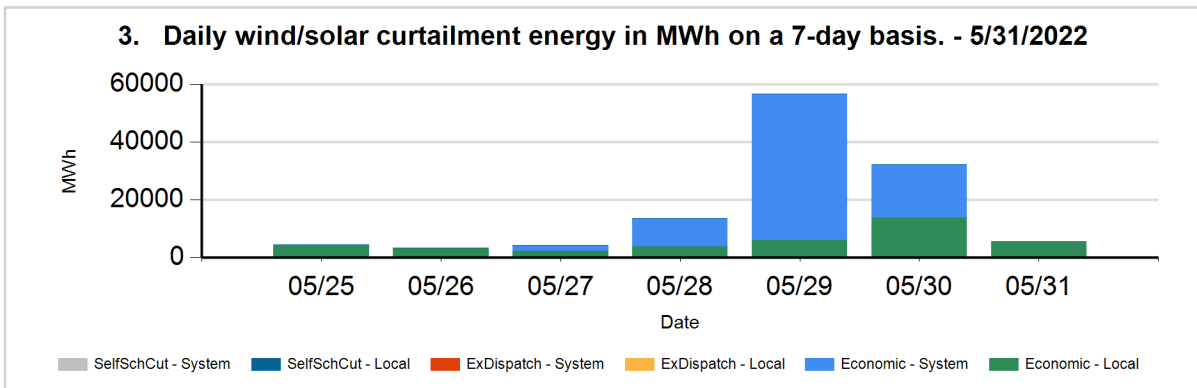
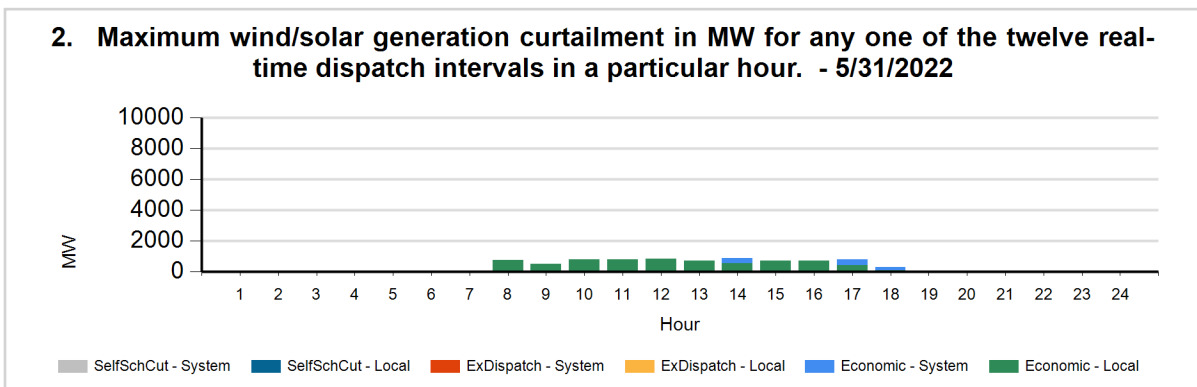
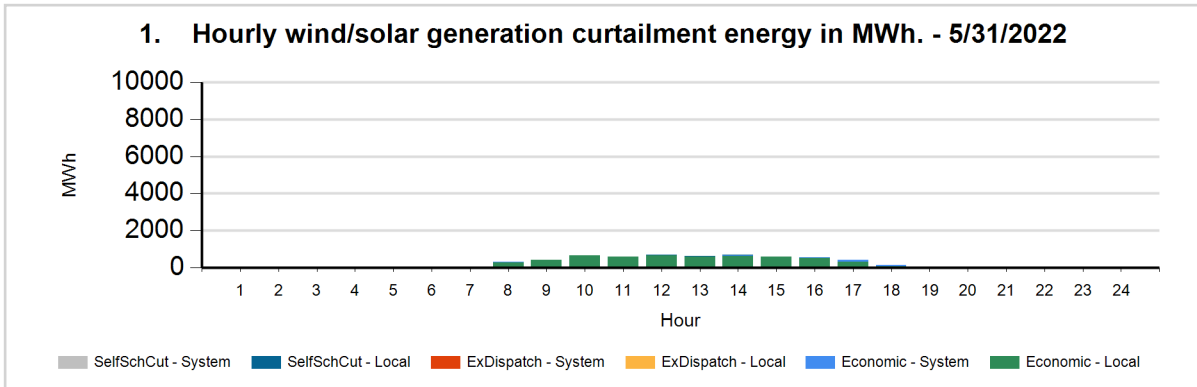
<sup>2</sup>The Renewables Watch report provides daily actual renewable production within the ISO grid. It is available at: <http://www.caiso.com/green/renewableswatch.html>.

<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.

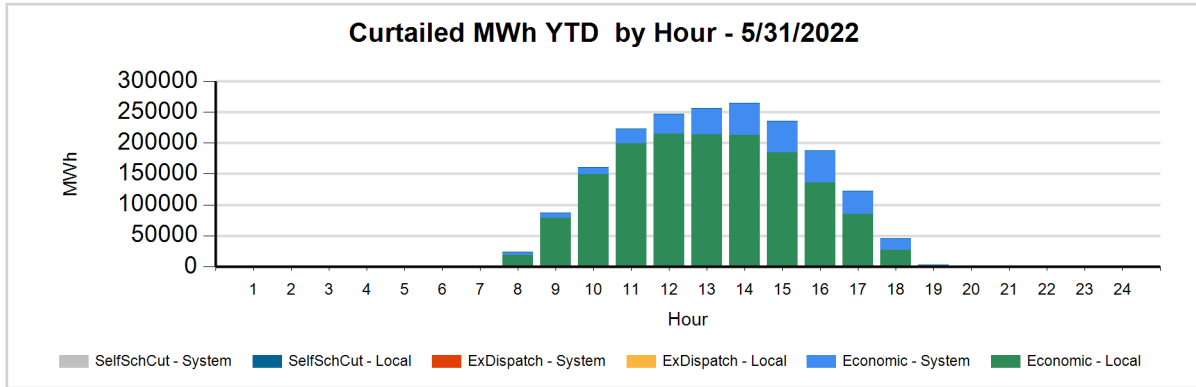
<sup>4</sup>For more information on oversupply conditions, please see:

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

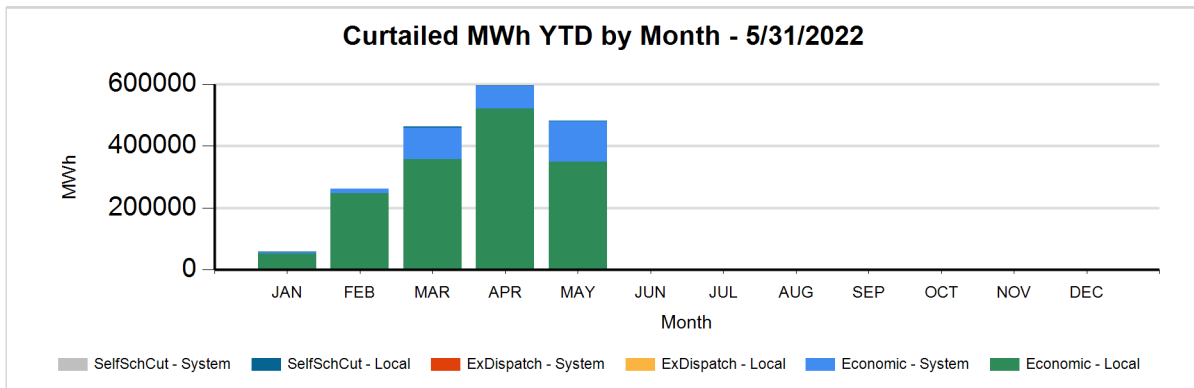
The following charts show the daily and 7-day wind and solar curtailment by category, if any.



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 - 5/31/2022
LocalEconomic	1,523,165
LocalSelfSchCut	4,904
SystemEconomic	332,661
TOTAL	1,860,730

**Data used to produce hourly chart**

DATE	HOUR	CURT TYPE	REASON	FUEL TYPE	CURTAILED MWH	CURTAILED MW
05/31	7	Economic	Local	SOLR	1	
05/31	7	Economic	System	SOLR	5	23
05/31	8	Economic	Local	SOLR	274	746
05/31	8	Economic	Local	WIND	16	8
05/31	8	Economic	System	SOLR	1	
05/31	9	Economic	Local	SOLR	416	444
05/31	9	Economic	Local	WIND	10	53
05/31	10	Economic	Local	SOLR	607	719
05/31	10	Economic	Local	WIND	51	57
05/31	11	Economic	Local	SOLR	514	725
05/31	11	Economic	Local	WIND	77	68
05/31	11	SelfSchCut	Local	SOLR	0	
05/31	12	Economic	Local	SOLR	615	716
05/31	12	Economic	Local	WIND	75	100
05/31	12	SelfSchCut	Local	SOLR	2	
05/31	13	Economic	Local	SOLR	554	623
05/31	13	Economic	Local	WIND	58	66
05/31	13	SelfSchCut	Local	SOLR	3	
05/31	14	Economic	Local	SOLR	584	488
05/31	14	Economic	Local	WIND	44	55
05/31	14	Economic	System	SOLR	71	310
05/31	14	SelfSchCut	Local	SOLR	2	
05/31	15	Economic	Local	SOLR	531	633
05/31	15	Economic	Local	WIND	38	62
05/31	15	SelfSchCut	Local	SOLR	0	
05/31	16	Economic	Local	SOLR	485	663
05/31	16	Economic	Local	WIND	39	39
05/31	16	Economic	System	SOLR	20	
05/31	17	Economic	Local	SOLR	275	368
05/31	17	Economic	Local	WIND	19	39
05/31	17	Economic	System	SOLR	119	361

05/31	18	Economic	Local	SOLR	55	71
05/31	18	Economic	System	SOLR	79	202
05/31	19	Economic	Local	SOLR	10	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](mailto:ShortTermForecasting@caiso.com).