

## Wind and Solar Curtailment May 27, 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.

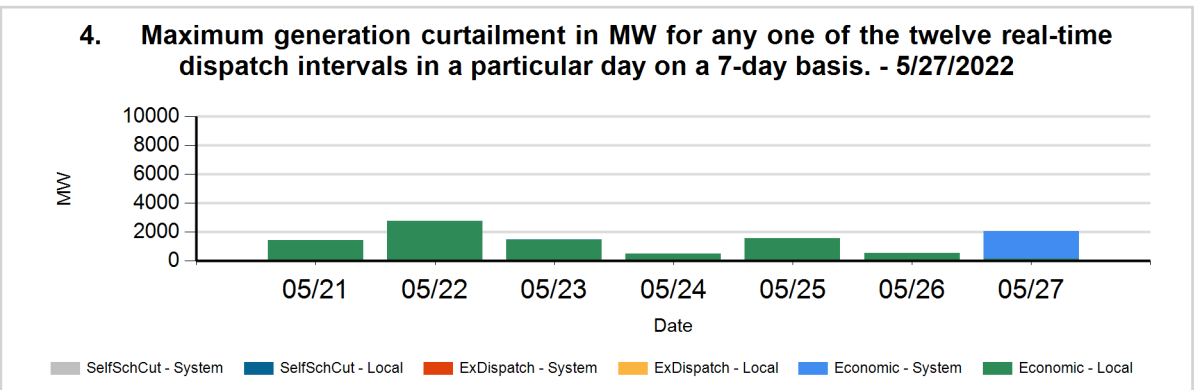
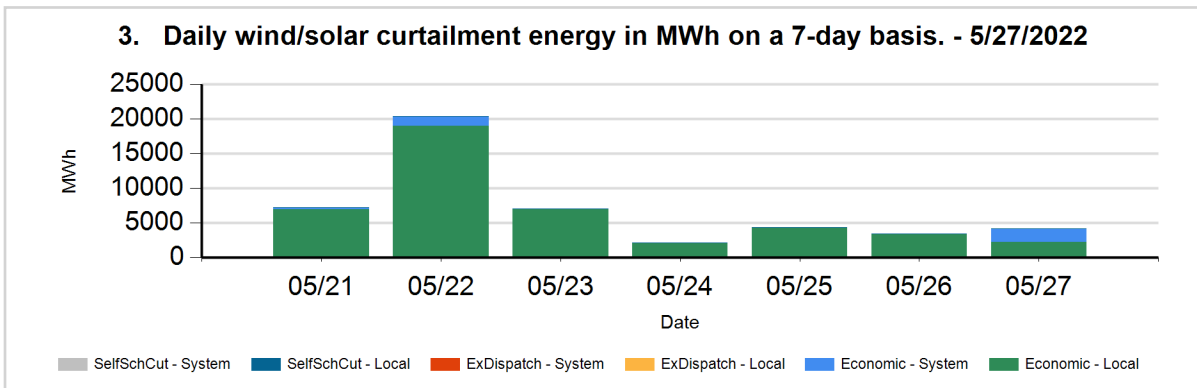
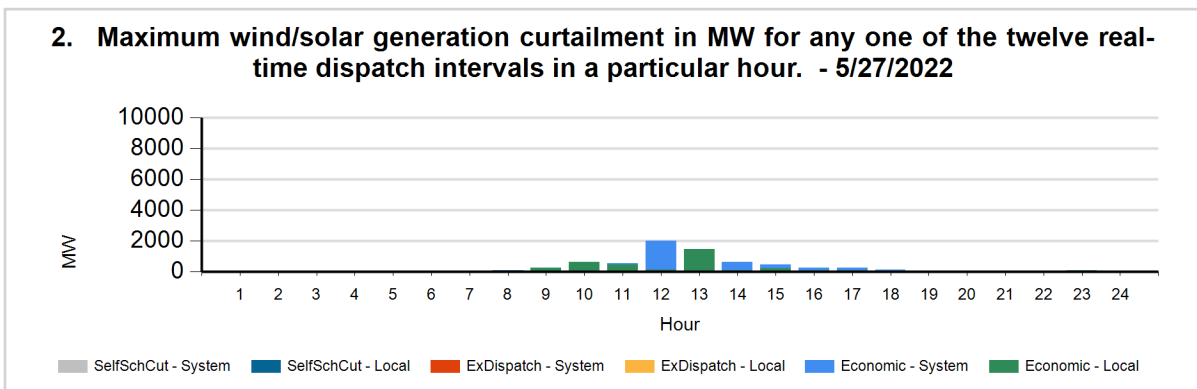
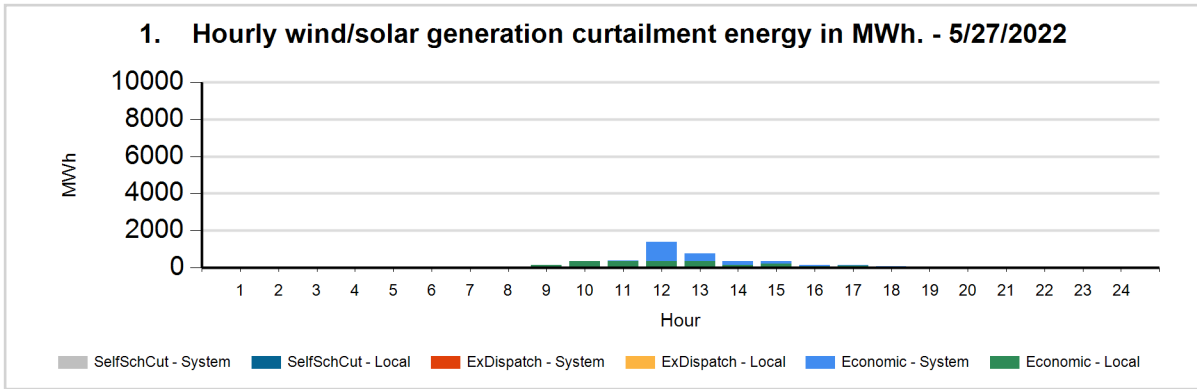
<sup>2</sup>The Renewables Watch report provides daily actual renewable production within the ISO grid. It is available at: <http://www.caiso.com/green/renewableswatch.html>.

<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.

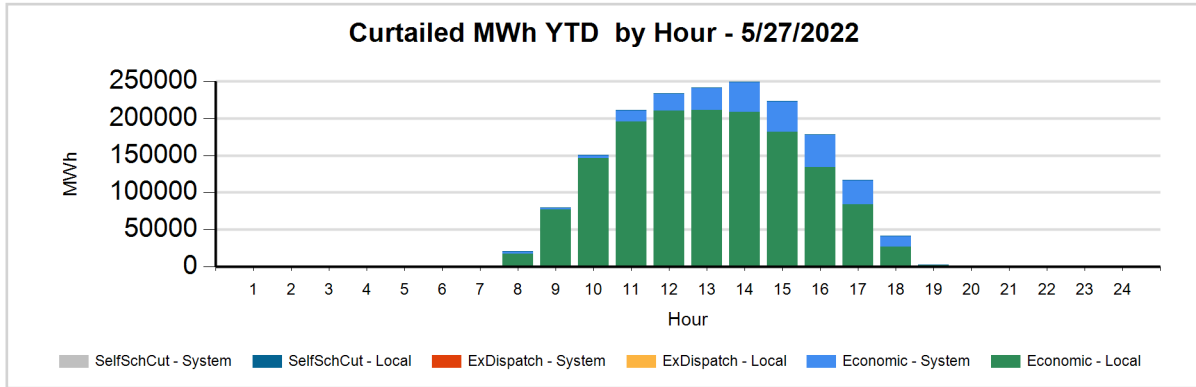
<sup>4</sup>For more information on oversupply conditions, please see:

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

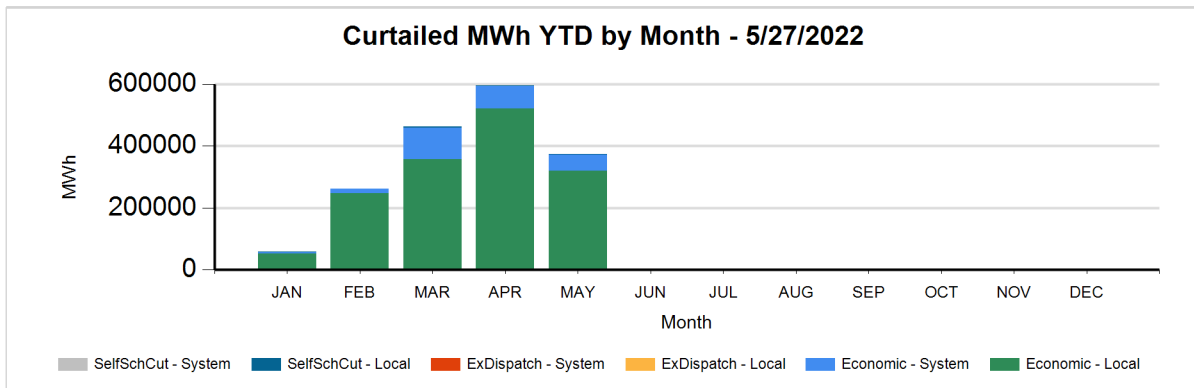
The following charts show the daily and 7-day wind and solar curtailment by category, if any.



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 - 5/27/2022
LocalEconomic	1,494,245
LocalSelfSchCut	4,877
SystemEconomic	253,616
TOTAL	1,752,738

**Data used to produce hourly chart**

DATE	HOUR	CURT TYPE	REASON	FUEL TYPE	CURTAILED MWH	CURTAILED MW
05/27	7	Economic	Local	SOLR	1	4
05/27	7	Economic	System	SOLR	0	
05/27	8	Economic	Local	SOLR	24	55
05/27	8	Economic	System	SOLR	0	
05/27	8	SelfSchCut	Local	SOLR	2	5
05/27	9	Economic	Local	SOLR	121	220
05/27	9	Economic	Local	WIND	2	20
05/27	9	Economic	System	SOLR	0	
05/27	9	SelfSchCut	Local	SOLR	0	
05/27	10	Economic	Local	SOLR	342	616
05/27	10	Economic	Local	WIND	7	
05/27	10	SelfSchCut	Local	SOLR	0	
05/27	11	Economic	Local	SOLR	332	470
05/27	11	Economic	System	SOLR	51	68
05/27	11	SelfSchCut	Local	SOLR	0	
05/27	12	Economic	Local	SOLR	346	119
05/27	12	Economic	Local	WIND	9	
05/27	12	Economic	System	SOLR	982	1829
05/27	12	Economic	System	WIND	38	67
05/27	13	Economic	Local	SOLR	337	1405
05/27	13	Economic	Local	WIND	9	52
05/27	13	Economic	System	SOLR	381	
05/27	13	Economic	System	WIND	24	
05/27	14	Economic	Local	SOLR	133	82
05/27	14	Economic	System	SOLR	199	500
05/27	14	Economic	System	WIND	18	39
05/27	15	Economic	Local	SOLR	199	197
05/27	15	Economic	System	SOLR	130	242
05/27	16	Economic	Local	SOLR	79	61
05/27	16	Economic	System	SOLR	50	171
05/27	17	Economic	Local	SOLR	101	96

05/27	17	Economic	System	SOLR	24	129
05/27	18	Economic	Local	SOLR	41	53
05/27	18	Economic	System	SOLR	28	50
05/27	19	Economic	Local	SOLR	2	
05/27	19	Economic	Local	WIND	30	47
05/27	19	Economic	System	SOLR	5	7
05/27	20	Economic	Local	WIND	33	35
05/27	21	Economic	Local	WIND	30	34
05/27	22	Economic	Local	WIND	15	45
05/27	23	Economic	Local	WIND	34	83

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).