

## Wind and Solar Curtailment May 29, 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.

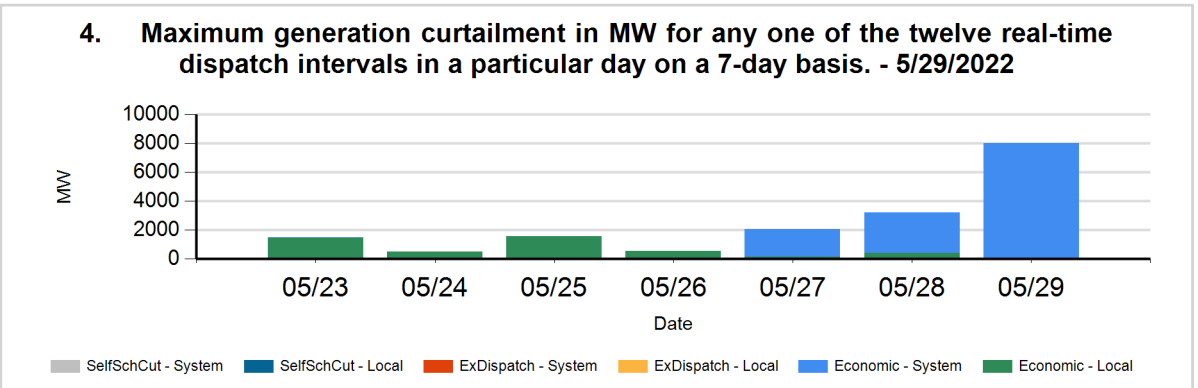
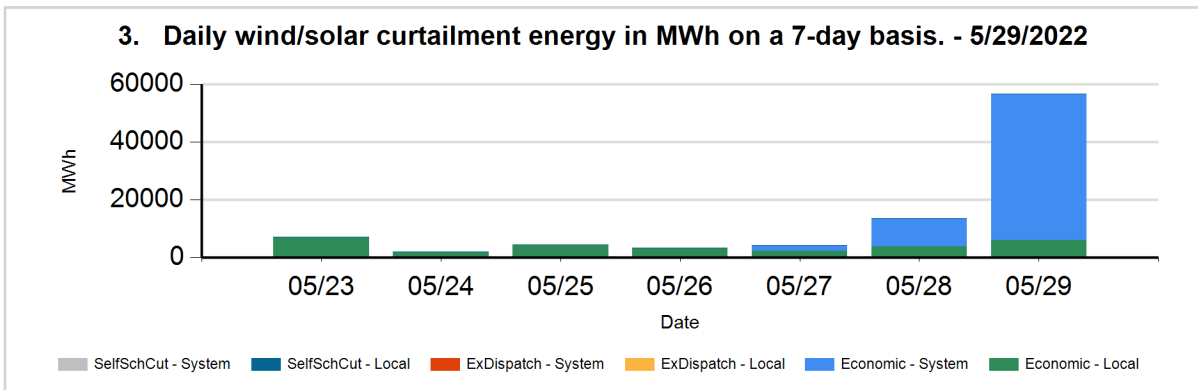
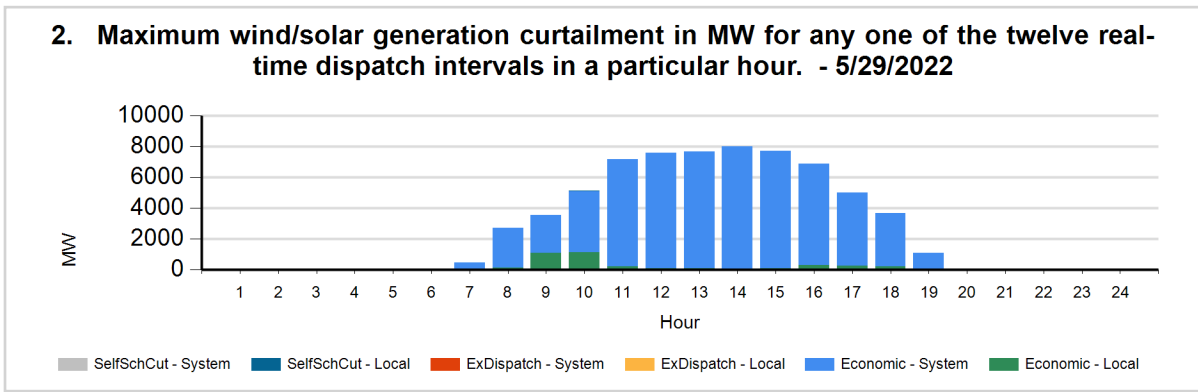
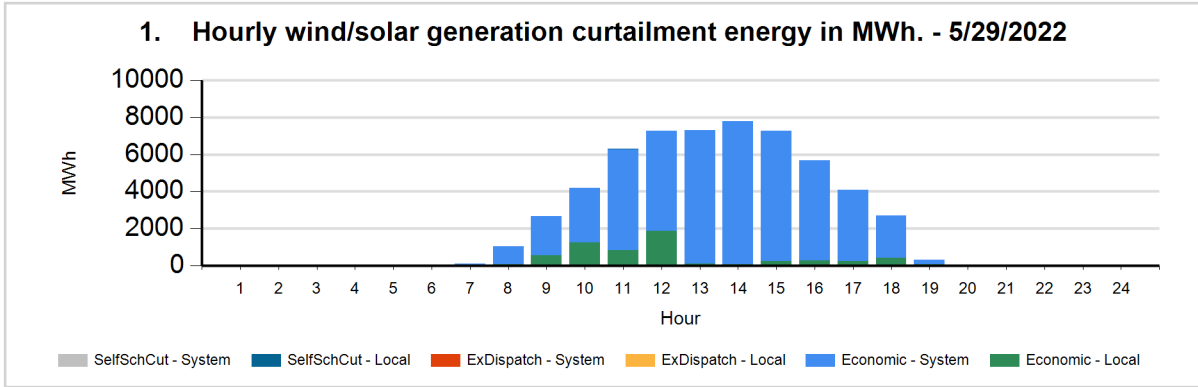
<sup>1</sup>Only wind and solar resources can be reported in this manner because these resources have a forecast. Curtailment is defined as the difference between actual production and the forecast when actual production is less than the forecast.

<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>.

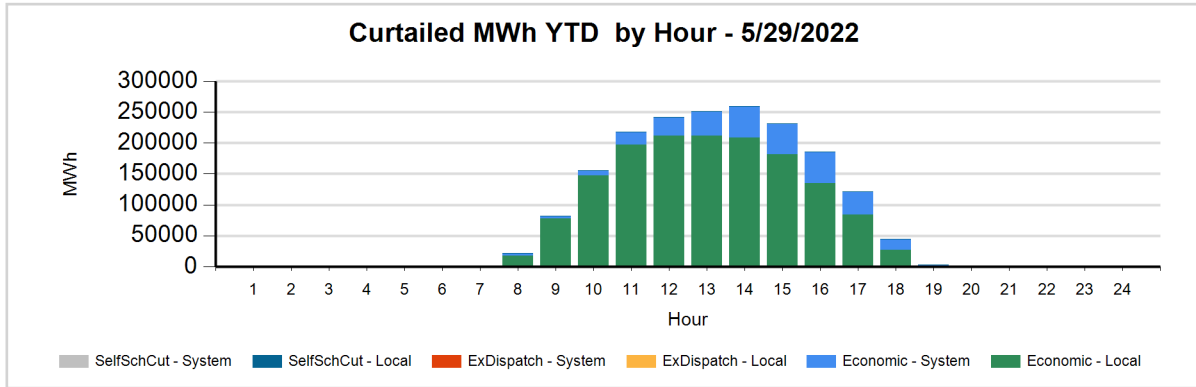
<sup>3</sup>Congestion occurs when available, least-cost energy cannot be delivered to some loads because transmission facilities do not have sufficient capacity to deliver the energy.

<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)

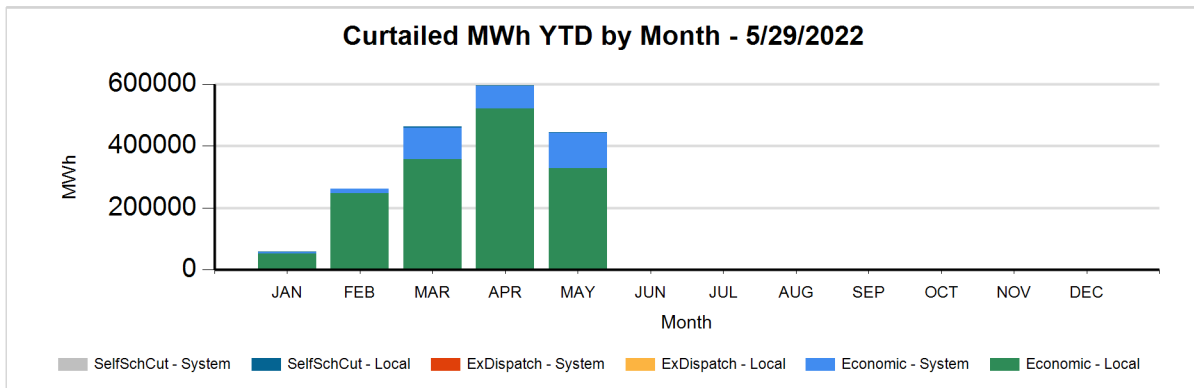
The following charts show the daily and 7-day wind and solar curtailment by category, if any.



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 - 5/29/2022
LocalEconomic	1,504,028
LocalSelfSchCut	4,880
SystemEconomic	314,049
TOTAL	1,822,957

**Data used to produce hourly chart**

DATE	HOUR	CURT TYPE	REASON	FUEL TYPE	CURTAILED MWH	CURTAILED MW
05/29	1	Economic	Local	WIND	4	5
05/29	2	Economic	Local	WIND	3	4
05/29	3	Economic	Local	WIND	2	4
05/29	4	Economic	Local	WIND	3	4
05/29	5	Economic	Local	WIND	1	3
05/29	6	Economic	System	SOLR	1	7
05/29	6	Economic	System	WIND	1	12
05/29	7	Economic	System	SOLR	78	454
05/29	7	Economic	System	WIND	6	20
05/29	8	Economic	Local	SOLR	64	141
05/29	8	Economic	System	SOLR	955	2543
05/29	8	Economic	System	WIND	17	29
05/29	9	Economic	Local	SOLR	537	1041
05/29	9	Economic	Local	WIND	14	42
05/29	9	Economic	System	SOLR	1994	2153
05/29	9	Economic	System	WIND	116	308
05/29	10	Economic	Local	SOLR	1187	1073
05/29	10	Economic	Local	WIND	43	40
05/29	10	Economic	System	SOLR	2542	3576
05/29	10	Economic	System	WIND	406	431
05/29	10	SelfSchCut	Local	SOLR	0	2
05/29	11	Economic	Local	SOLR	791	217
05/29	11	Economic	Local	WIND	29	
05/29	11	Economic	System	SOLR	4899	6288
05/29	11	Economic	System	WIND	568	655
05/29	11	SelfSchCut	Local	SOLR	1	
05/29	12	Economic	Local	SOLR	1697	85
05/29	12	Economic	Local	WIND	163	
05/29	12	Economic	System	SOLR	4936	6855
05/29	12	Economic	System	WIND	476	639
05/29	13	Economic	Local	SOLR	92	85

05/29	13	Economic	System	SOLR	6566	6897
05/29	13	Economic	System	WIND	644	677
05/29	14	Economic	Local	SOLR	67	15
05/29	14	Economic	System	SOLR	6980	7198
05/29	14	Economic	System	WIND	735	797
05/29	15	Economic	Local	SOLR	230	99
05/29	15	Economic	System	SOLR	6316	6836
05/29	15	Economic	System	WIND	705	765
05/29	15	SelfSchCut	Local	SOLR	0	
05/29	16	Economic	Local	SOLR	285	267
05/29	16	Economic	System	SOLR	4774	5951
05/29	16	Economic	System	WIND	626	679
05/29	17	Economic	Local	SOLR	244	263
05/29	17	Economic	System	SOLR	3478	4100
05/29	17	Economic	System	WIND	374	658
05/29	18	Economic	Local	SOLR	380	185
05/29	18	Economic	Local	WIND	25	
05/29	18	Economic	System	SOLR	2152	3186
05/29	18	Economic	System	WIND	131	300
05/29	19	Economic	Local	SOLR	43	36
05/29	19	Economic	Local	WIND	5	
05/29	19	Economic	System	SOLR	247	982
05/29	19	Economic	System	WIND	12	59
05/29	20	Economic	Local	WIND	6	9
05/29	21	Economic	Local	WIND	10	19
05/29	22	Economic	Local	WIND	2	4
05/29	23	Economic	Local	WIND	3	2
05/29	23	Economic	System	WIND	2	15
05/29	24	Economic	Local	WIND	1	4

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).



California ISO