

## Wind and Solar Curtailment May 30, 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.

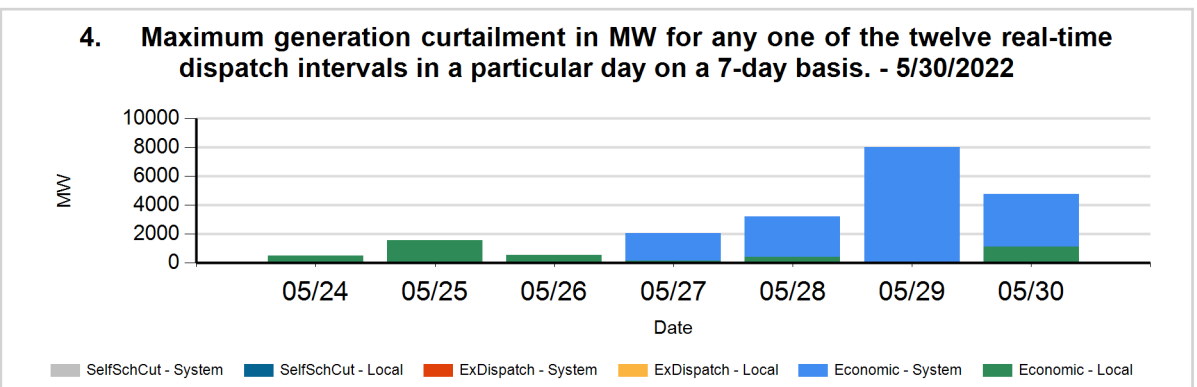
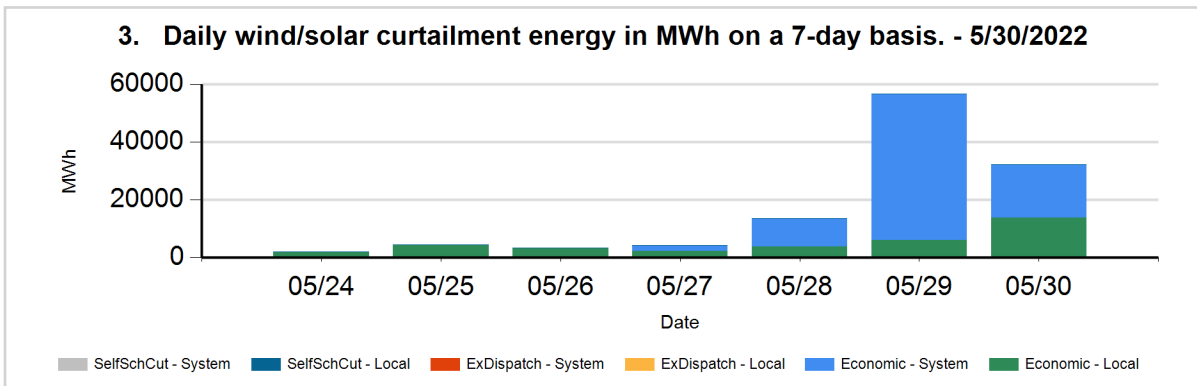
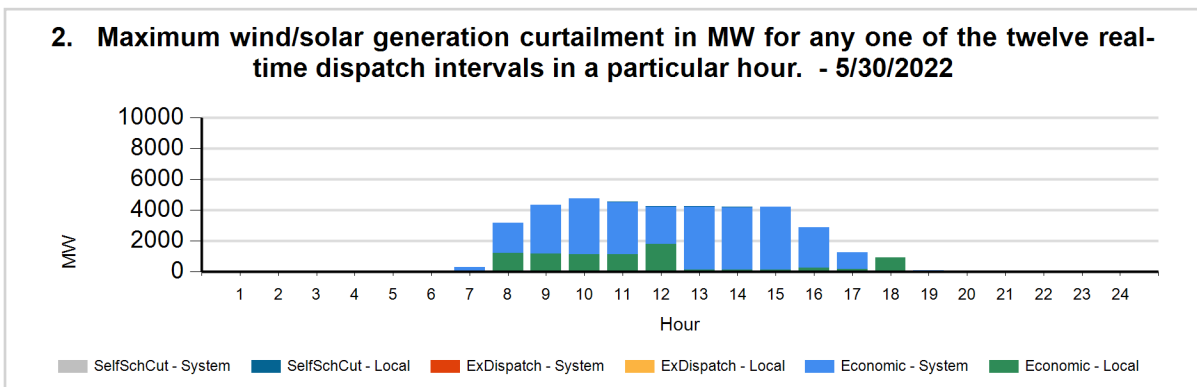
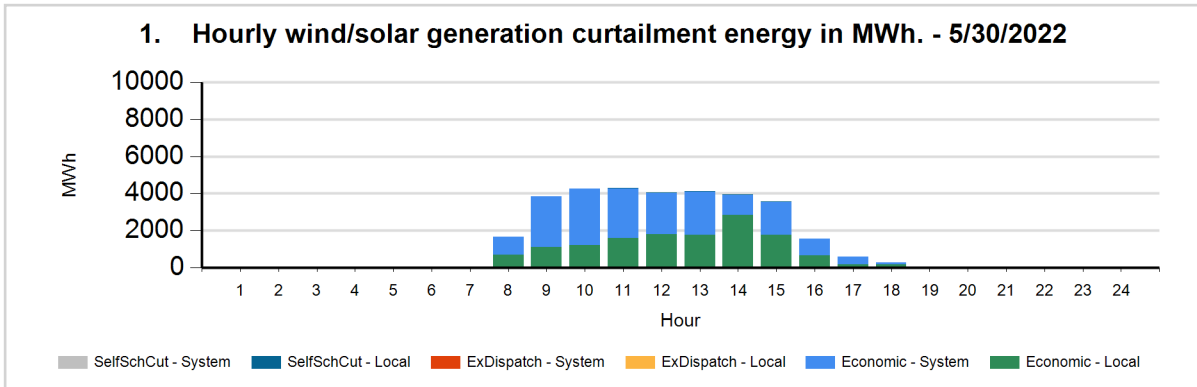
<sup>2</sup>The Renewables Watch report provides daily actual renewable production within the ISO grid. It is available at: <http://www.caiso.com/green/renewableswatch.html>.

<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.

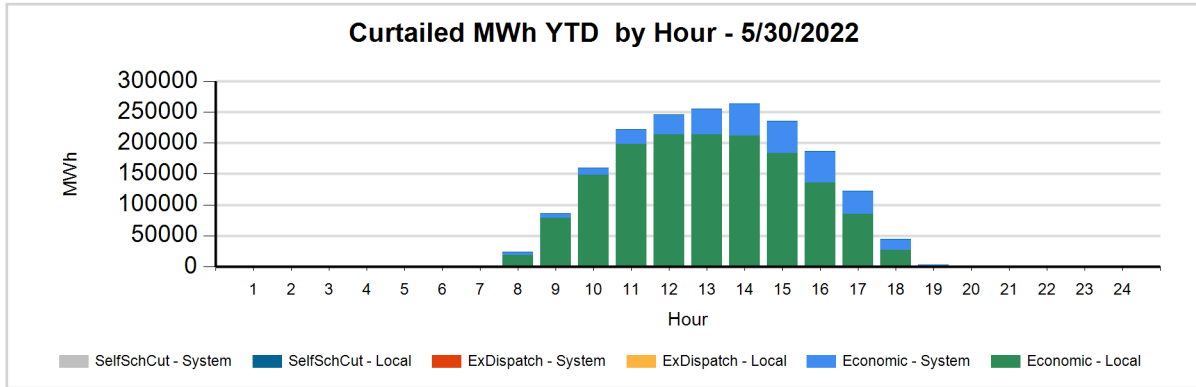
<sup>4</sup>For more information on oversupply conditions, please see:

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

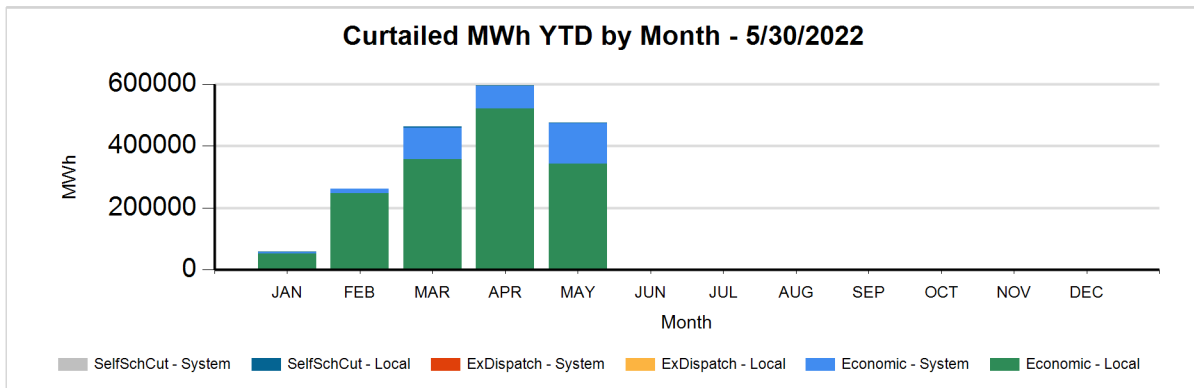
The following charts show the daily and 7-day wind and solar curtailment by category, if any.



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 - 5/30/2022
LocalEconomic	1,517,818
LocalSelfSchCut	4,897
SystemEconomic	332,366
<b>TOTAL</b>	<b>1,855,081</b>

**Data used to produce hourly chart**

DATE	HOUR	CURT TYPE	REASON	FUEL TYPE	CURTAILED MWH	CURTAILED MW
05/30	1	Economic	Local	WIND	2	3
05/30	2	Economic	Local	WIND	3	4
05/30	3	Economic	Local	WIND	2	4
05/30	4	Economic	Local	WIND	1	3
05/30	7	Economic	Local	SOLR	4	4
05/30	7	Economic	Local	WIND	0	2
05/30	7	Economic	System	SOLR	24	255
05/30	7	Economic	System	WIND	3	14
05/30	8	Economic	Local	SOLR	670	1185
05/30	8	Economic	Local	WIND	9	19
05/30	8	Economic	System	SOLR	967	1916
05/30	8	Economic	System	WIND	16	65
05/30	9	Economic	Local	SOLR	1075	1116
05/30	9	Economic	Local	WIND	44	44
05/30	9	Economic	System	SOLR	2556	2990
05/30	9	Economic	System	WIND	163	174
05/30	10	Economic	Local	SOLR	1171	1069
05/30	10	Economic	Local	WIND	50	43
05/30	10	Economic	System	SOLR	2827	3418
05/30	10	Economic	System	WIND	189	222
05/30	11	Economic	Local	SOLR	1529	1064
05/30	11	Economic	Local	WIND	71	43
05/30	11	Economic	System	SOLR	2524	3290
05/30	11	Economic	System	WIND	160	165
05/30	11	SelfSchCut	Local	SOLR	3	3
05/30	12	Economic	Local	SOLR	1750	1739
05/30	12	Economic	Local	WIND	50	42
05/30	12	Economic	System	SOLR	2060	2181
05/30	12	Economic	System	WIND	165	283
05/30	12	SelfSchCut	Local	SOLR	6	8
05/30	13	Economic	Local	SOLR	1672	119

05/30	13	Economic	Local	WIND	79	
05/30	13	Economic	System	SOLR	2201	3828
05/30	13	Economic	System	WIND	146	289
05/30	13	SelfSchCut	Local	SOLR	2	11
05/30	14	Economic	Local	SOLR	2714	121
05/30	14	Economic	Local	WIND	108	
05/30	14	Economic	System	SOLR	1054	3829
05/30	14	Economic	System	WIND	64	251
05/30	14	SelfSchCut	Local	SOLR	3	11
05/30	15	Economic	Local	SOLR	1737	119
05/30	15	Economic	Local	WIND	27	
05/30	15	Economic	System	SOLR	1745	3857
05/30	15	Economic	System	WIND	62	239
05/30	15	SelfSchCut	Local	SOLR	2	
05/30	16	Economic	Local	SOLR	657	260
05/30	16	Economic	Local	WIND	5	
05/30	16	Economic	System	SOLR	874	2593
05/30	16	Economic	System	WIND	20	34
05/30	16	SelfSchCut	Local	SOLR	0	
05/30	17	Economic	Local	SOLR	177	171
05/30	17	Economic	System	SOLR	381	1055
05/30	17	Economic	System	WIND	13	25
05/30	17	SelfSchCut	Local	SOLR	0	
05/30	18	Economic	Local	SOLR	157	868
05/30	18	Economic	Local	WIND	5	32
05/30	18	Economic	System	SOLR	93	
05/30	18	Economic	System	WIND	8	
05/30	19	Economic	Local	SOLR	21	43
05/30	19	Economic	System	SOLR	4	18
05/30	22	Economic	Local	WIND	0	1

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