

## Wind and Solar Curtailment May 07, 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.

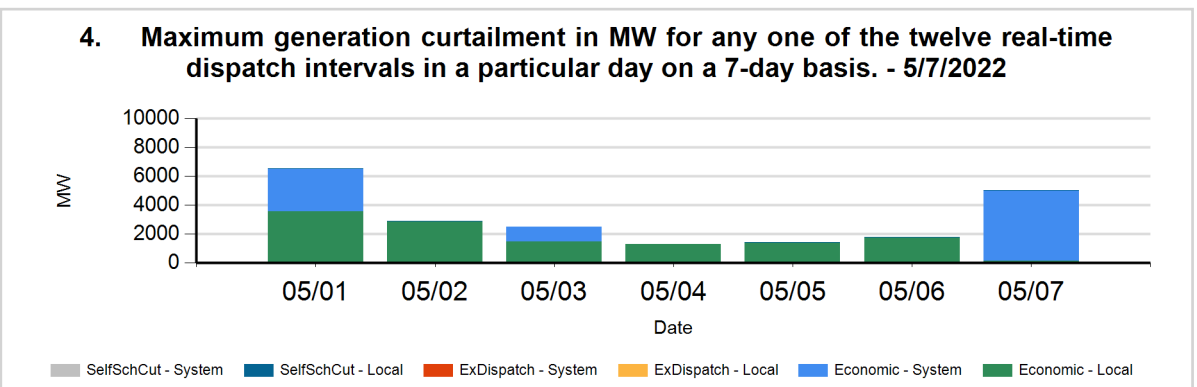
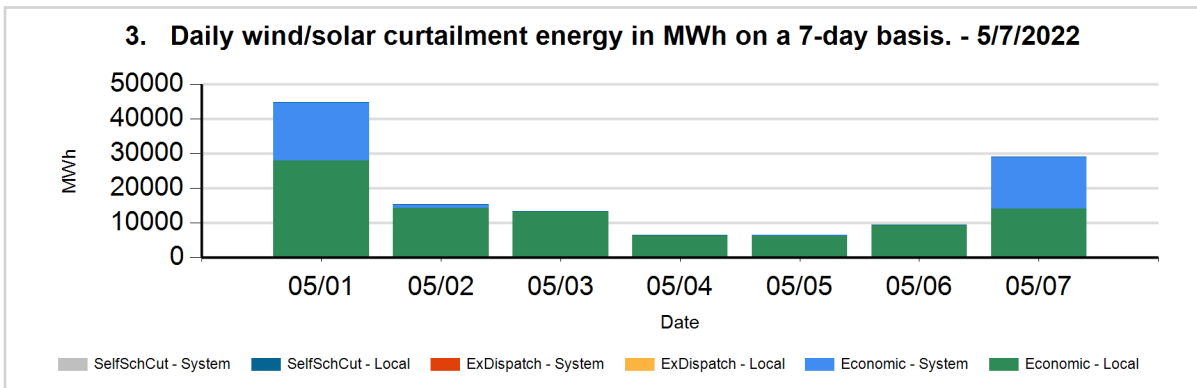
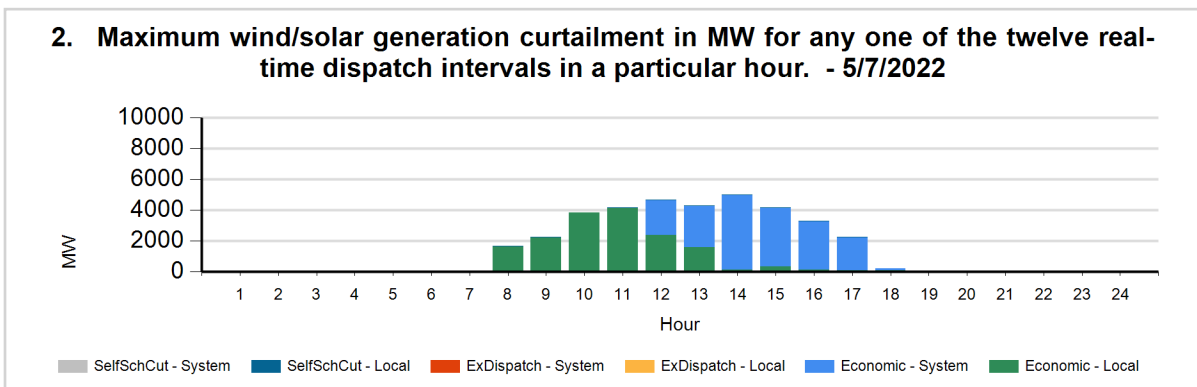
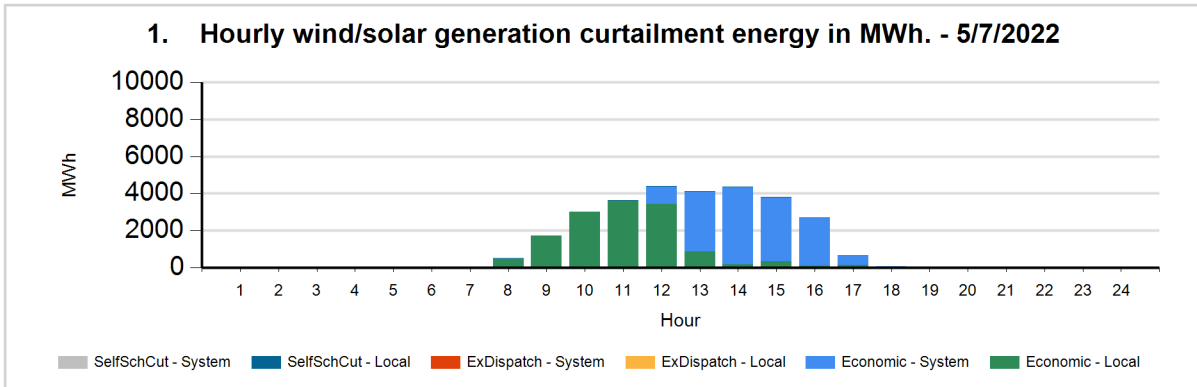
<sup>2</sup>The Renewables Watch report provides daily actual renewable production within the ISO grid. It is available at: <http://www.caiso.com/green/renewableswatch.html>.

<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.

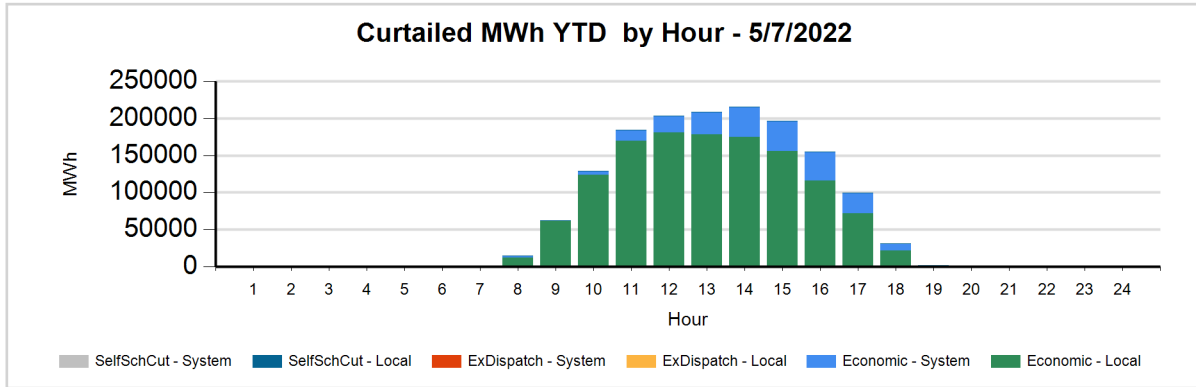
<sup>4</sup>For more information on oversupply conditions, please see:

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

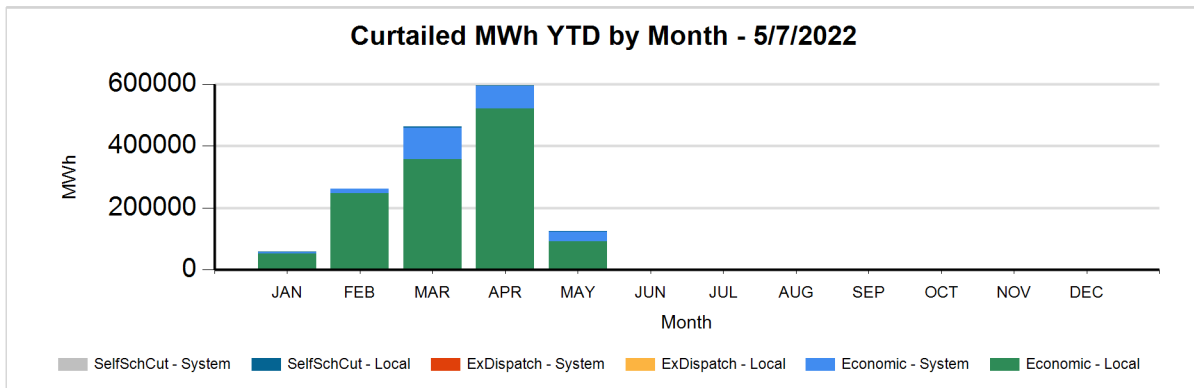
The following charts show the daily and 7-day wind and solar curtailment by category, if any.



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 - 5/7/2022
LocalEconomic	1,266,849
LocalSelfSchCut	4,479
SystemEconomic	232,604
TOTAL	1,503,931

**Data used to produce hourly chart**

DATE	HOUR	CURT TYPE	REASON	FUEL TYPE	CURTAILED MWH	CURTAILED MW
05/07	8	Economic	Local	SOLR	509	1649
05/07	8	Economic	Local	WIND	8	32
05/07	8	Economic	System	SOLR	2	
05/07	8	SelfSchCut	Local	SOLR	0	1
05/07	9	Economic	Local	SOLR	1630	2196
05/07	9	Economic	Local	WIND	56	37
05/07	9	Economic	System	SOLR	43	
05/07	9	Economic	System	WIND	6	27
05/07	9	SelfSchCut	Local	SOLR	0	1
05/07	10	Economic	Local	SOLR	2809	3572
05/07	10	Economic	Local	WIND	205	273
05/07	11	Economic	Local	SOLR	3421	3771
05/07	11	Economic	Local	WIND	209	390
05/07	11	SelfSchCut	Local	SOLR	2	1
05/07	12	Economic	Local	SOLR	3178	2238
05/07	12	Economic	Local	WIND	243	145
05/07	12	Economic	System	SOLR	871	2015
05/07	12	Economic	System	WIND	107	253
05/07	12	SelfSchCut	Local	SOLR	3	1
05/07	13	Economic	Local	SOLR	842	1449
05/07	13	Economic	Local	WIND	36	126
05/07	13	Economic	System	SOLR	2930	2395
05/07	13	Economic	System	WIND	314	328
05/07	13	SelfSchCut	Local	SOLR	2	1
05/07	14	Economic	Local	SOLR	182	130
05/07	14	Economic	System	SOLR	3776	4378
05/07	14	Economic	System	WIND	391	495
05/07	14	SelfSchCut	Local	SOLR	1	1
05/07	15	Economic	Local	SOLR	352	321
05/07	15	Economic	Local	WIND	0	
05/07	15	Economic	System	SOLR	3207	3433

05/07	15	Economic	System	WIND	236	413
05/07	15	SelfSchCut	Local	SOLR	2	5
05/07	16	Economic	Local	SOLR	106	120
05/07	16	Economic	Local	WIND	3	
05/07	16	Economic	System	SOLR	2522	3111
05/07	16	Economic	System	WIND	55	55
05/07	16	SelfSchCut	Local	SOLR	1	1
05/07	17	Economic	Local	SOLR	121	84
05/07	17	Economic	Local	WIND	6	
05/07	17	Economic	System	SOLR	498	2098
05/07	17	Economic	System	WIND	31	65
05/07	17	SelfSchCut	Local	SOLR	1	1
05/07	18	Economic	Local	SOLR	60	68
05/07	18	Economic	Local	WIND	2	
05/07	18	Economic	System	SOLR	13	86
05/07	18	Economic	System	WIND	6	37
05/07	18	SelfSchCut	Local	SOLR	0	
05/07	19	Economic	Local	SOLR	2	15
05/07	19	Economic	Local	WIND	4	4
05/07	19	Economic	System	SOLR	0	1
05/07	20	Economic	Local	WIND	9	29
05/07	21	Economic	Local	WIND	14	39
05/07	22	Economic	Local	WIND	3	3
05/07	23	Economic	Local	WIND	2	3
05/07	24	Economic	Local	WIND	4	5

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