

Wind and Solar Curtailment April 03, 2023

This report is produced daily to provide a detailed accounting of the wind and solar renewable generation that was curtailed and the reasons why¹. This report should be read in the context of the Renewables Watch report for a more complete understanding of both renewable curtailment and generation².

Wind and solar curtailments are grouped into the following categories:

- 1. Economic Local: Market dispatch of generators with economic bids to mitigate local congestion³.
- 2. Economic System: Market dispatch of generators with economic bids to mitigate systemwide oversupply.
- 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.

¹Only 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.

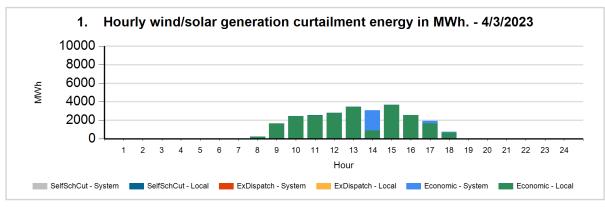
²The Renewables Watch report provides daily actual renewable production within the ISO grid. It is available at: <u>http://www.caiso.com/green/renewableswatch.html</u>.

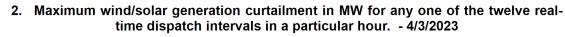
³Congestion occurs when available, least-cost energy cannot be delivered to some loads because transmission facilities do not have sufficient capacity to deliver the energy.

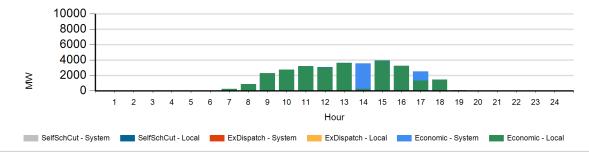
For more information on oversupply conditions, please see: <u>https://www.caiso.com/Documents/FlexibleResourcesHelpRenewables_FastFacts.pdf</u>

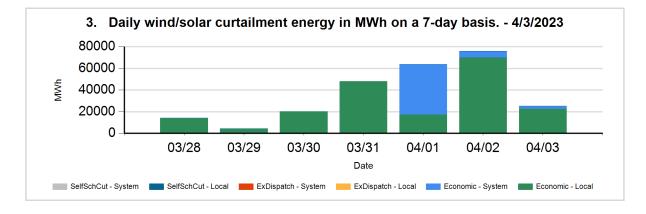


The following charts show the daily and 7-day wind and solar curtailment by category, if any.

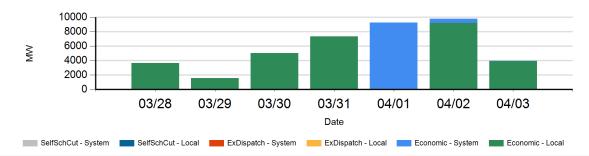






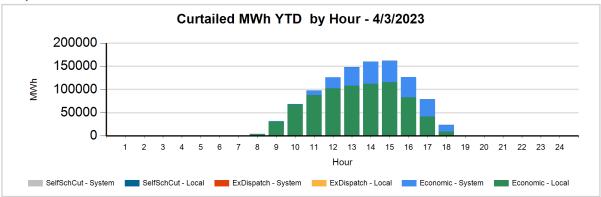


4. Maximum generation curtailment in MW for any one of the twelve real-time dispatch intervals in a particular day on a 7-day basis. - 4/3/2023

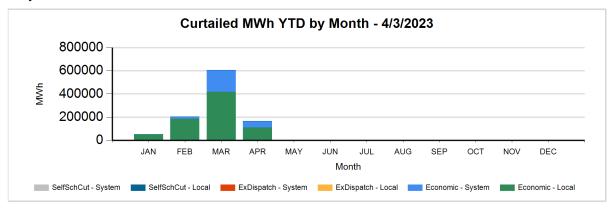




The following charts show hourly year to date wind and solar curtailment by category, if any.



The following charts show monthly year to date wind and solar curtailment by category, if any.



TYPE	YTD CURTAILED MWH - 4/3/2023	
LocalEconomic	761,916	
LocalSelfSchCut	42	
SystemEconomic	266,248	
TOTAL	1,028,205	



Data used to produce hourly chart

ILED MWH CURTAI	ILED MW
2	
11	14
4	14
11	
2	
3	14
1	
2	28
32	235
219	858
10	
0	
1206	1837
450	464
2112	2272
349	480
2459	3201
109	8
2	
2787	2988
17	32
7	60
1	
4	4
3420	3568
21	30
2	14
3	7
889	245
6	
2107	3118



198	66	WIND	System	14 Economic	14	04/03
1	0	SOLR	Local	14 SelfSchCut	14	04/03
3763	3593	SOLR	Local	15 Economic	15	04/03
177	60	WIND	Local	15 Economic	15	04/03
19	19	WIND	System	15 Economic	15	04/03
	2	SOLR	Local	15 SelfSchCut	15	04/03
3234	2525	SOLR	Local	16 Economic	16	04/03
26	17	WIND	Local	16 Economic	16	04/03
	0	SOLR	System	16 Economic	16	04/03
1337	1667	SOLR	Local	17 Economic	17	04/03
	5	WIND	Local	17 Economic	17	04/03
1129	247	SOLR	System	17 Economic	17	04/03
30	10	WIND	System	17 Economic	17	04/03
1	0	SOLR	Local	17 SelfSchCut	17	04/03
1445	665	SOLR	Local	18 Economic	18	04/03
	87	SOLR	System	18 Economic	18	04/03
	3	WIND	System	18 Economic	18	04/03
	0	SOLR	Local	18 SelfSchCut	18	04/03
62	12	SOLR	Local	19 Economic	19	04/03
	0	SOLR	System	19 Economic	19	04/03

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.