

Wind and Solar Curtailment April 16, 2022

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 system-wide oversupply⁴.
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.

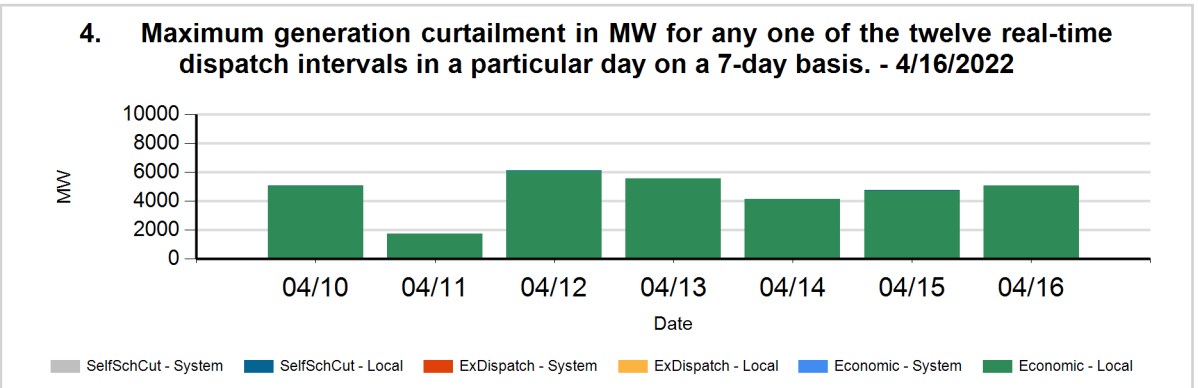
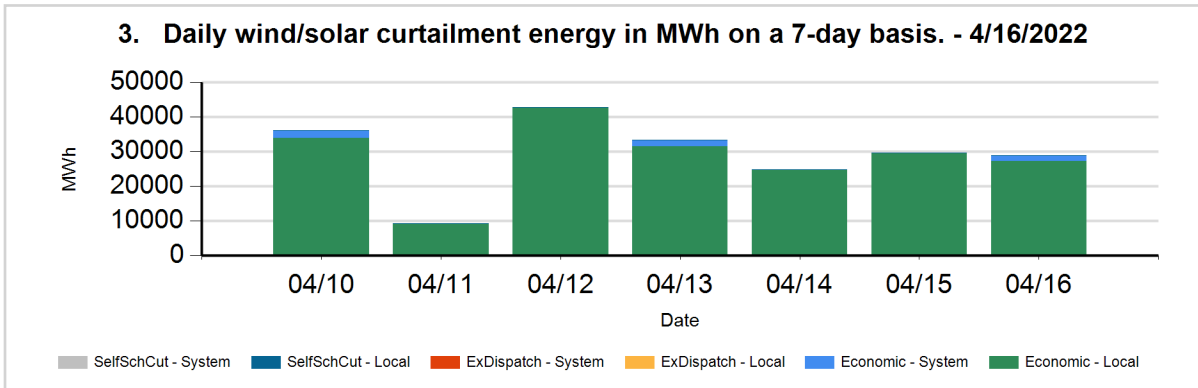
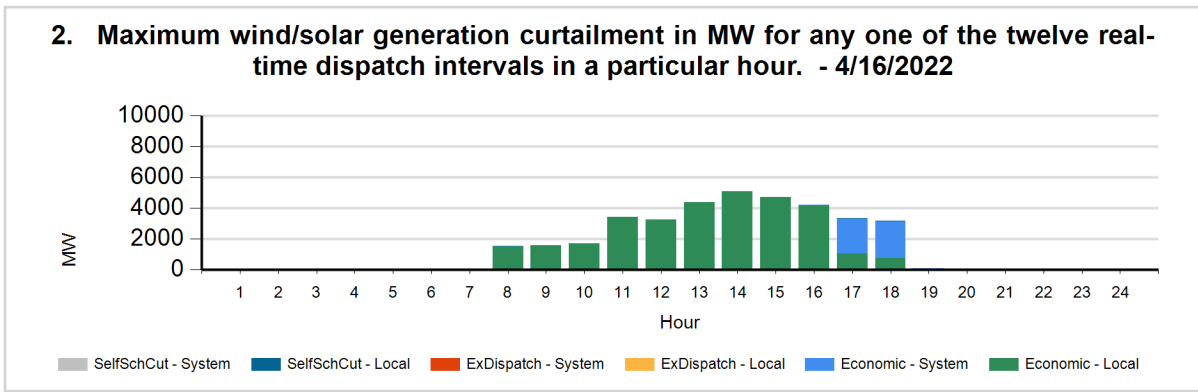
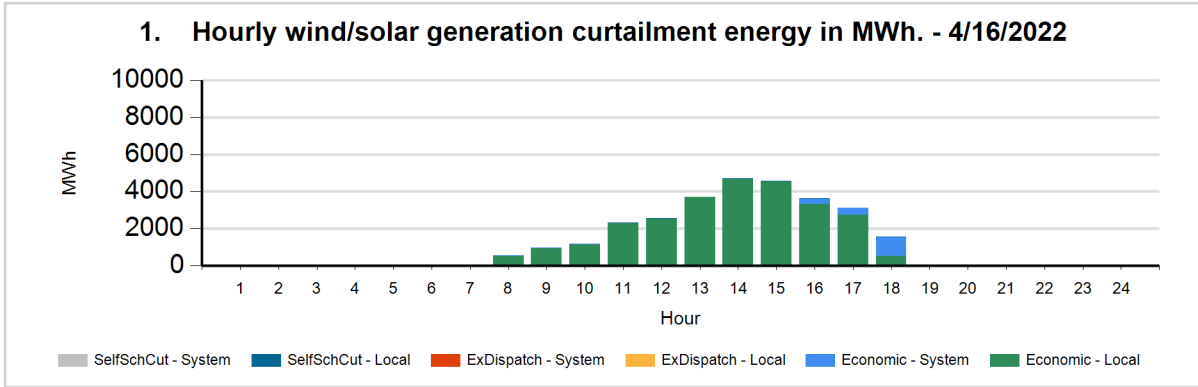
²The Renewables Watch report provides daily actual renewable production within the ISO grid. It is available at: <http://www.caiso.com/green/renewableswatch.html>.

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.

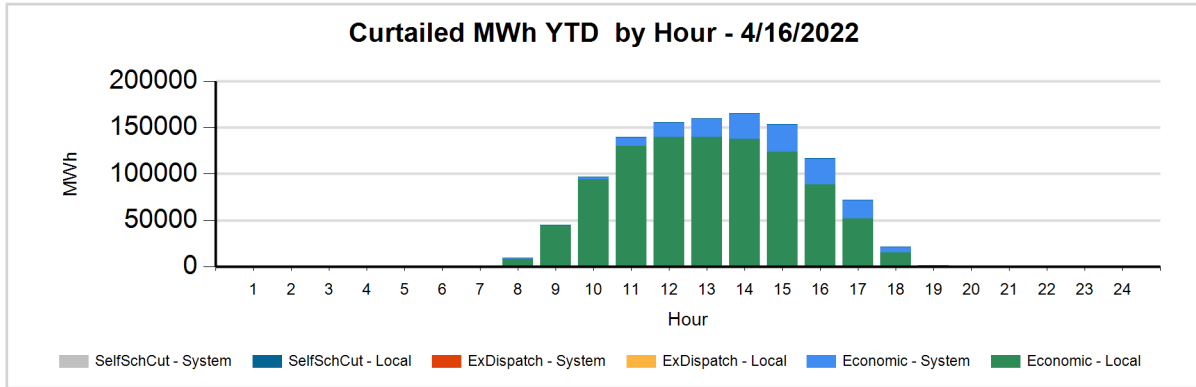
⁴For more information on oversupply conditions, please see:

https://www.caiso.com/Documents/FlexibleResourcesHelpRenewables_FastFacts.pdf

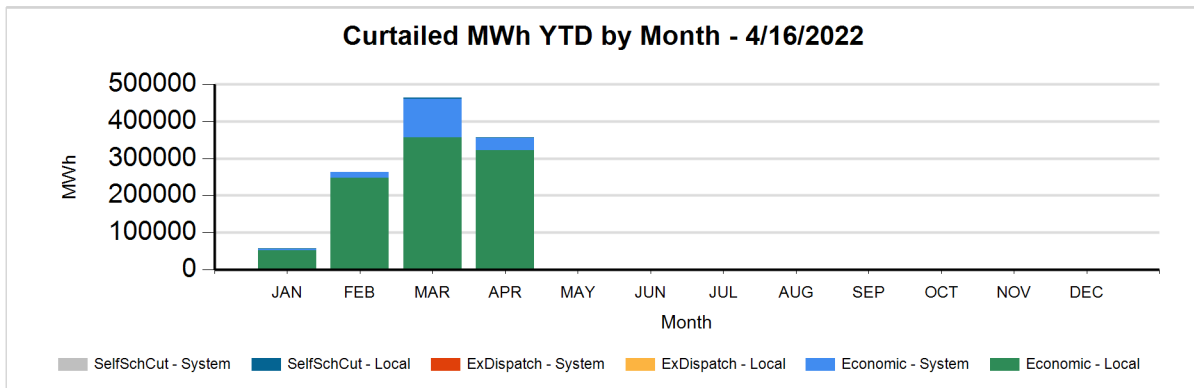
The following charts show the daily and 7-day wind and solar curtailment by category, if any.



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 - 4/16/2022
LocalEconomic	976,194
LocalSelfSchCut	4,009
SystemEconomic	158,813
TOTAL	1,139,015

Data used to produce hourly chart

DATE	HOUR	CURT TYPE	REASON	FUEL TYPE	CURTAILED MWH	CURTAILED MW
04/16	8	Economic	Local	SOLR	515	1466
04/16	8	Economic	Local	WIND	36	70
04/16	8	Economic	System	SOLR	2	18
04/16	9	Economic	Local	SOLR	917	1429
04/16	9	Economic	Local	WIND	52	102
04/16	9	Economic	System	SOLR	11	30
04/16	10	Economic	Local	SOLR	1160	1709
04/16	10	Economic	Local	WIND	22	14
04/16	10	Economic	System	SOLR	6	2
04/16	11	Economic	Local	SOLR	2074	3127
04/16	11	Economic	Local	WIND	251	297
04/16	11	SelfSchCut	Local	SOLR	1	
04/16	12	Economic	Local	SOLR	2320	2924
04/16	12	Economic	Local	WIND	238	312
04/16	12	Economic	System	WIND	1	
04/16	12	SelfSchCut	Local	SOLR	1	
04/16	13	Economic	Local	SOLR	3359	3809
04/16	13	Economic	Local	WIND	356	572
04/16	13	SelfSchCut	Local	SOLR	0	
04/16	14	Economic	Local	SOLR	4083	4350
04/16	14	Economic	Local	WIND	615	728
04/16	14	Economic	System	WIND	4	
04/16	14	SelfSchCut	Local	SOLR	3	
04/16	15	Economic	Local	SOLR	4170	4223
04/16	15	Economic	Local	WIND	394	469
04/16	15	Economic	System	WIND	2	
04/16	15	SelfSchCut	Local	SOLR	1	
04/16	16	Economic	Local	SOLR	3174	3940
04/16	16	Economic	Local	WIND	158	250
04/16	16	Economic	System	SOLR	287	
04/16	16	Economic	System	WIND	19	31

04/16	16	SelfSchCut	Local	SOLR	1	
04/16	17	Economic	Local	SOLR	2623	1025
04/16	17	Economic	Local	WIND	121	
04/16	17	Economic	System	SOLR	364	2254
04/16	17	Economic	System	WIND	10	59
04/16	17	SelfSchCut	Local	SOLR	0	1
04/16	18	Economic	Local	SOLR	510	748
04/16	18	Economic	System	SOLR	983	2349
04/16	18	Economic	System	WIND	48	88
04/16	18	SelfSchCut	Local	SOLR	1	1
04/16	19	Economic	Local	SOLR	7	9
04/16	19	Economic	System	SOLR	15	76

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.