

Wind and Solar Curtailment April 11, 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.

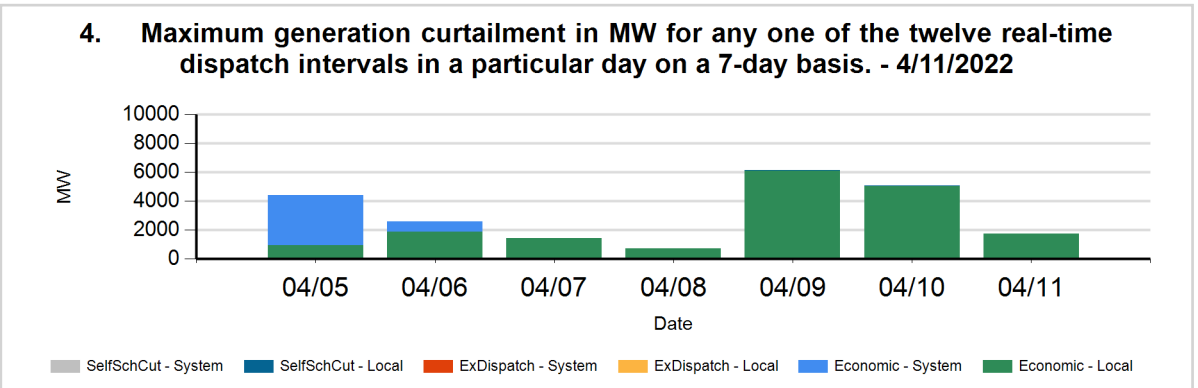
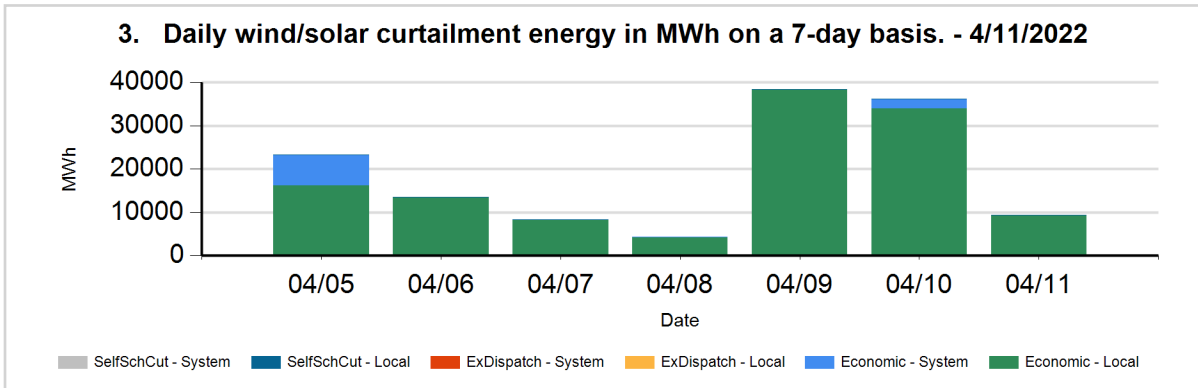
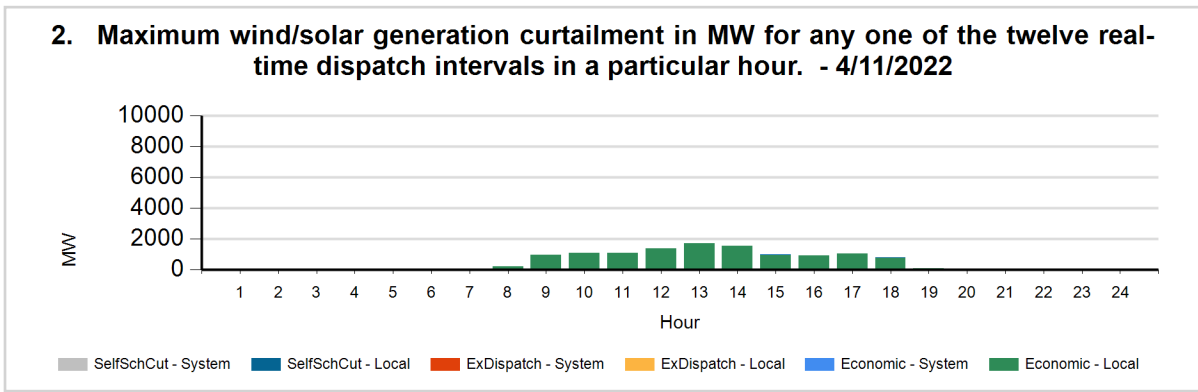
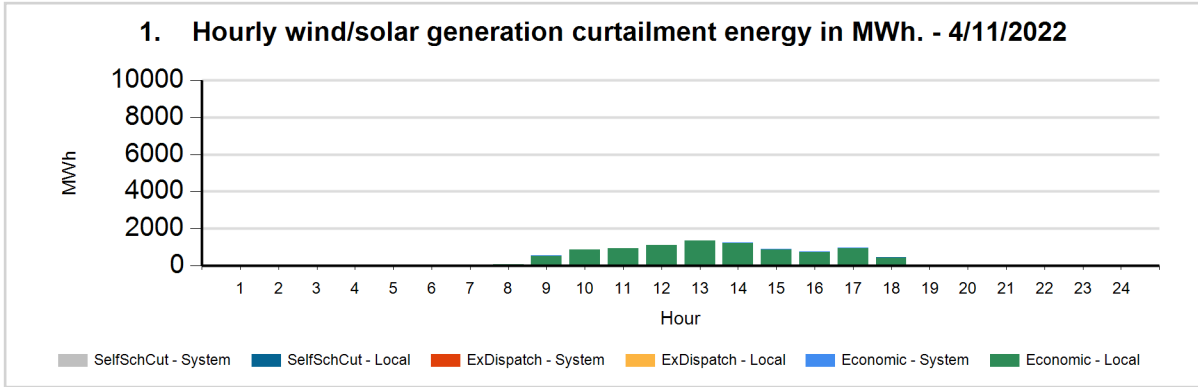
²The Renewables Watch report provides daily actual renewable production within the ISO grid. It is available at: <http://www.caiso.com/green/renewableswatch.html>.

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.

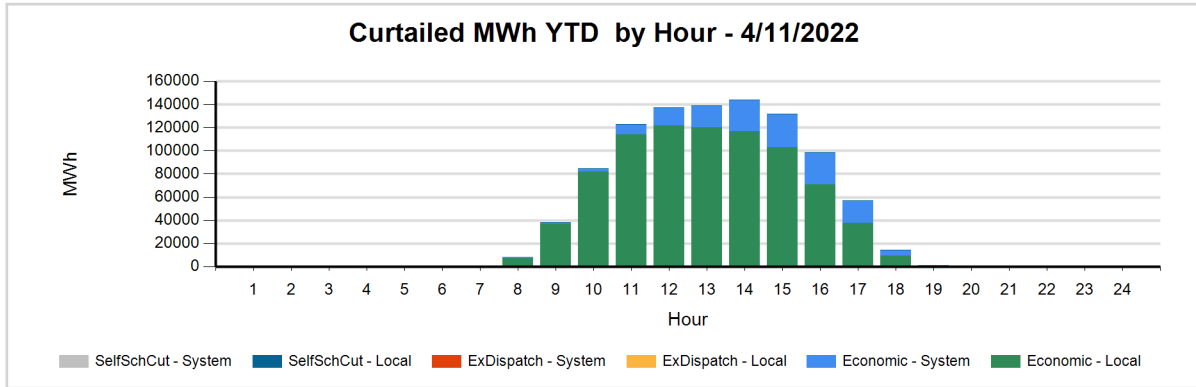
⁴For more information on oversupply conditions, please see:

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

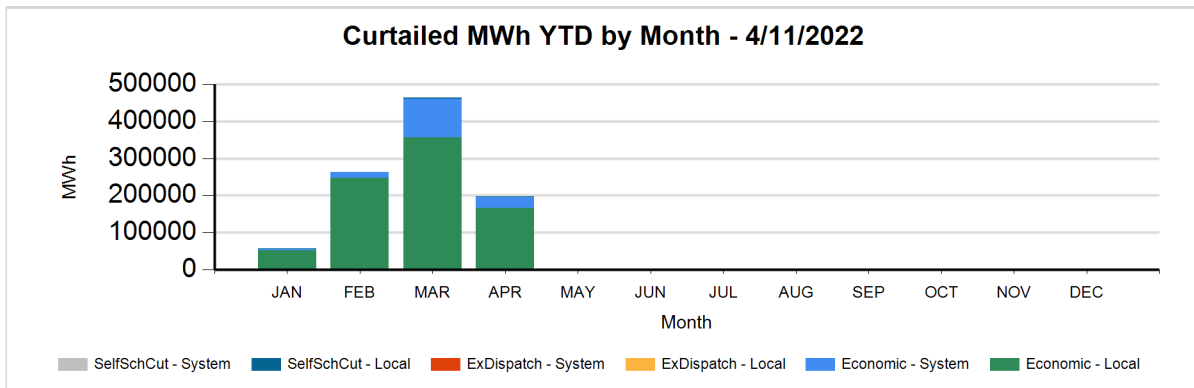
The following charts show the daily and 7-day wind and solar curtailment by category, if any.



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 - 4/11/2022
LocalEconomic	820,503
LocalSelfSchCut	3,951
SystemEconomic	155,115
TOTAL	979,569

Data used to produce hourly chart

DATE	HOUR	CURT TYPE	REASON	FUEL TYPE	CURTAILED MWH	CURTAILED MW
04/11	1	Economic	Local	WIND	10	19
04/11	2	Economic	Local	WIND	9	9
04/11	3	Economic	Local	WIND	9	9
04/11	4	Economic	Local	WIND	6	11
04/11	5	Economic	Local	WIND	11	13
04/11	5	Economic	System	WIND	1	
04/11	6	Economic	Local	WIND	11	13
04/11	7	Economic	Local	WIND	13	13
04/11	8	Economic	Local	SOLR	29	146
04/11	8	Economic	Local	WIND	36	59
04/11	9	Economic	Local	SOLR	502	934
04/11	9	Economic	Local	WIND	53	12
04/11	9	Economic	System	WIND	1	
04/11	10	Economic	Local	SOLR	562	778
04/11	10	Economic	Local	WIND	292	307
04/11	11	Economic	Local	SOLR	639	781
04/11	11	Economic	Local	WIND	305	307
04/11	12	Economic	Local	SOLR	938	1273
04/11	12	Economic	Local	WIND	179	116
04/11	13	Economic	Local	SOLR	1201	1540
04/11	13	Economic	Local	WIND	158	170
04/11	13	SelfSchCut	Local	SOLR	0	
04/11	14	Economic	Local	SOLR	1095	1337
04/11	14	Economic	Local	WIND	147	206
04/11	14	Economic	System	SOLR	3	
04/11	15	Economic	Local	SOLR	820	908
04/11	15	Economic	Local	WIND	61	61
04/11	15	Economic	System	SOLR	2	25
04/11	16	Economic	Local	SOLR	716	837
04/11	16	Economic	Local	WIND	48	61
04/11	16	Economic	System	SOLR	2	

04/11	17	Economic	Local	SOLR	792	840
04/11	17	Economic	Local	WIND	156	206
04/11	17	Economic	System	SOLR	16	
04/11	18	Economic	Local	SOLR	232	675
04/11	18	Economic	Local	WIND	196	94
04/11	18	Economic	System	SOLR	12	
04/11	18	SelfSchCut	Local	SOLR	8	16
04/11	19	Economic	Local	SOLR	19	83
04/11	19	Economic	Local	WIND	9	9
04/11	19	Economic	System	SOLR	5	
04/11	20	Economic	Local	WIND	5	9
04/11	21	Economic	Local	WIND	1	9

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.