

Wind and Solar Curtailment April 17, 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.

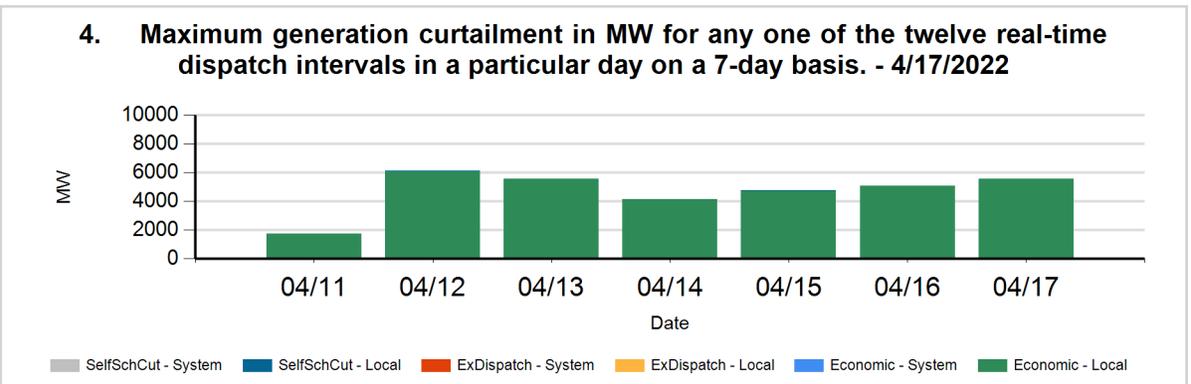
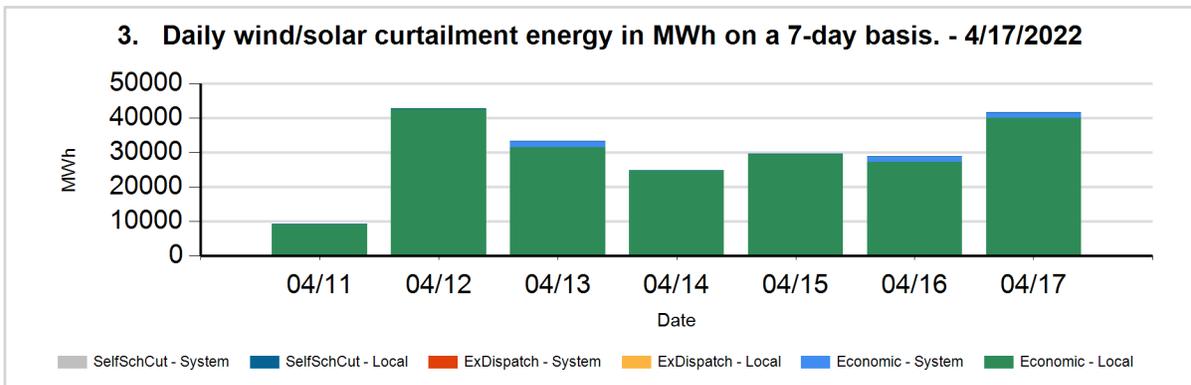
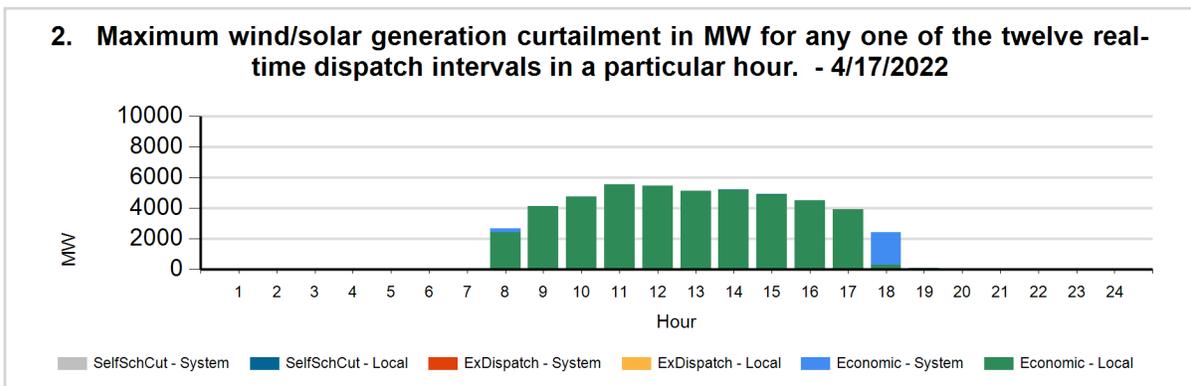
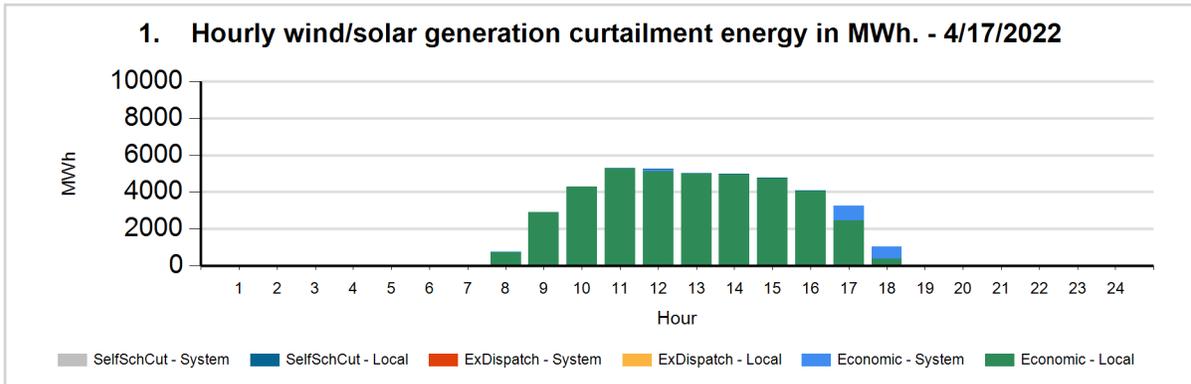
¹Only wind and solar resources can be reported in this manner because these resources have a forecast. Curtailment is defined as the difference between actual production and the forecast when actual production is less than the forecast.

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

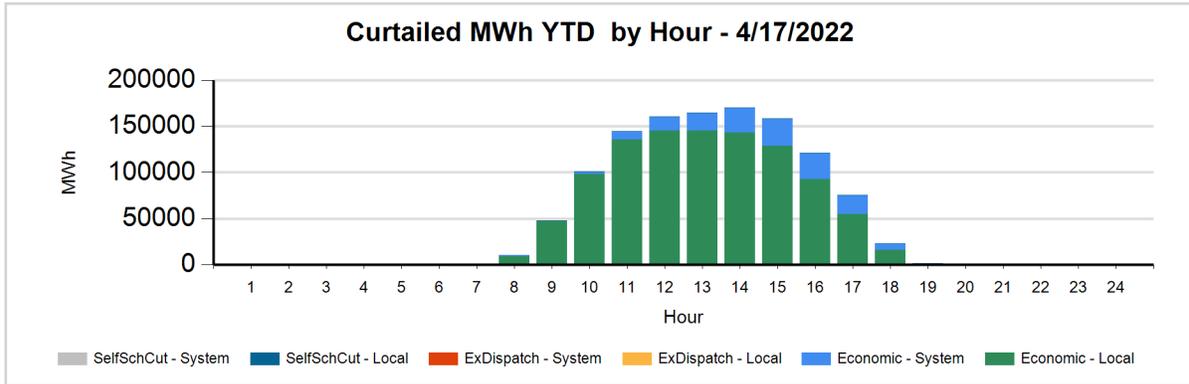
³Congestion occurs when available, least-cost energy cannot be delivered to some loads because transmission facilities do not have sufficient capacity to deliver the energy.

⁴For more information on oversupply conditions, please see: https://www.caiso.com/Documents/FlexibleResourcesHelpRenewables_FastFacts.pdf

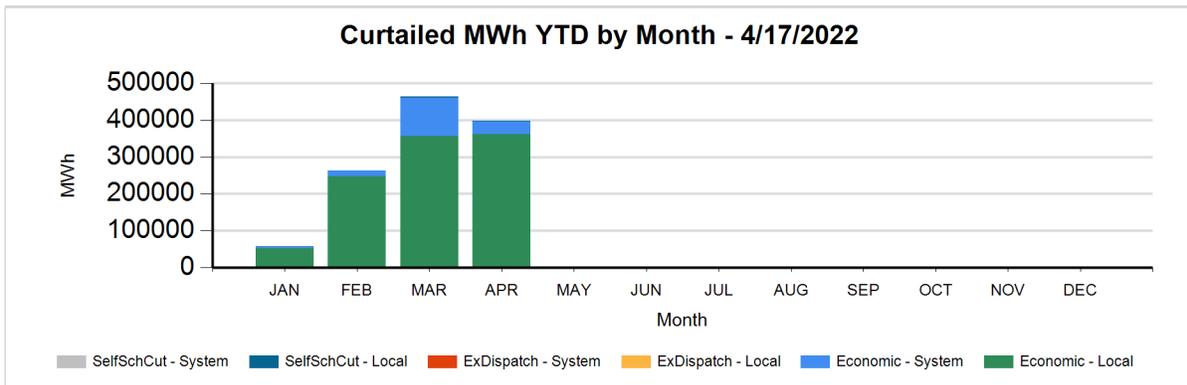
The following charts show the daily and 7-day wind and solar curtailment by category, if any.



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 - 4/17/2022
LocalEconomic	1,016,126
LocalSelfSchCut	4,040
SystemEconomic	160,491
TOTAL	1,180,656

Data used to produce hourly chart

DATE	HOUR	CURT TYPE	REASON	FUEL TYPE	CURTAILED MWH	CURTAILED MW
04/17	8	Economic	Local	SOLR	714	2385
04/17	8	Economic	Local	WIND	7	21
04/17	8	Economic	System	SOLR	19	227
04/17	8	Economic	System	WIND	2	25
04/17	9	Economic	Local	SOLR	2825	4044
04/17	9	Economic	Local	WIND	87	77
04/17	10	Economic	Local	SOLR	4197	4702
04/17	10	Economic	Local	WIND	76	69
04/17	11	Economic	Local	SOLR	5144	5394
04/17	11	Economic	Local	WIND	97	166
04/17	11	Economic	System	SOLR	61	
04/17	11	Economic	System	WIND	1	
04/17	11	SelfSchCut	Local	SOLR	4	
04/17	12	Economic	Local	SOLR	5038	5312
04/17	12	Economic	Local	WIND	94	149
04/17	12	Economic	System	SOLR	108	
04/17	12	Economic	System	WIND	3	
04/17	12	SelfSchCut	Local	SOLR	7	
04/17	13	Economic	Local	SOLR	4914	5019
04/17	13	Economic	Local	WIND	85	119
04/17	13	SelfSchCut	Local	SOLR	7	
04/17	14	Economic	Local	SOLR	4887	5022
04/17	14	Economic	Local	WIND	96	165
04/17	14	SelfSchCut	Local	SOLR	6	18
04/17	15	Economic	Local	SOLR	4679	4765
04/17	15	Economic	Local	WIND	101	144
04/17	15	SelfSchCut	Local	SOLR	4	17
04/17	16	Economic	Local	SOLR	3973	4403
04/17	16	Economic	Local	WIND	91	81
04/17	16	SelfSchCut	Local	SOLR	2	
04/17	17	Economic	Local	SOLR	2402	3801

04/17	17	Economic	Local	WIND	43	115
04/17	17	Economic	System	SOLR	813	
04/17	17	Economic	System	WIND	8	
04/17	17	SelfSchCut	Local	SOLR	0	
04/17	18	Economic	Local	SOLR	361	303
04/17	18	Economic	System	SOLR	643	2080
04/17	18	Economic	System	WIND	14	27
04/17	19	Economic	Local	SOLR	22	91
04/17	19	Economic	System	SOLR	6	

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.