

Wind and Solar Curtailment April 29, 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.

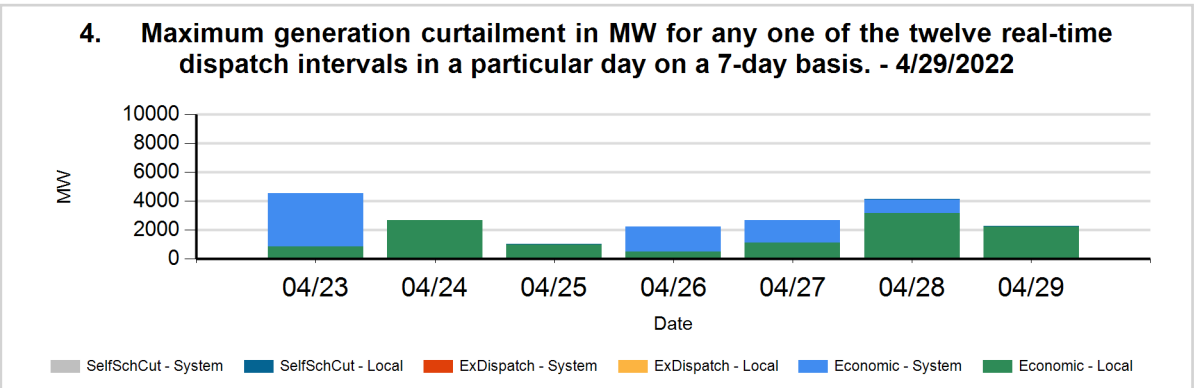
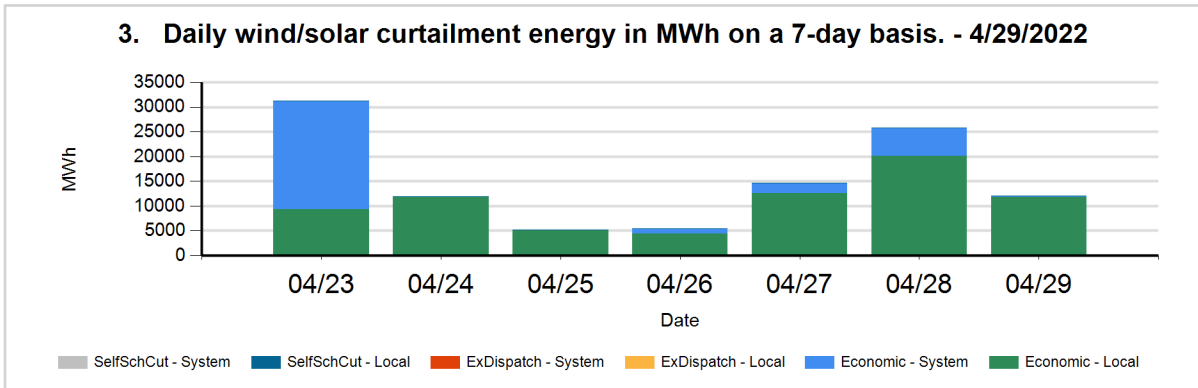
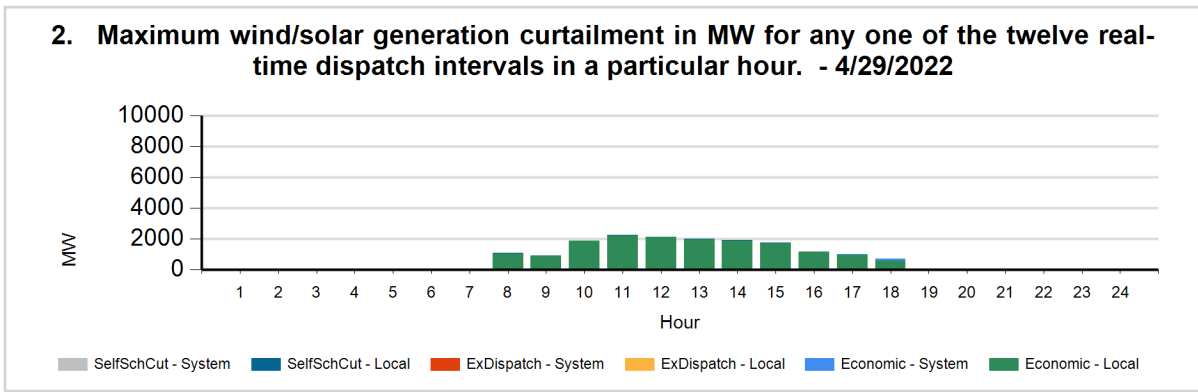
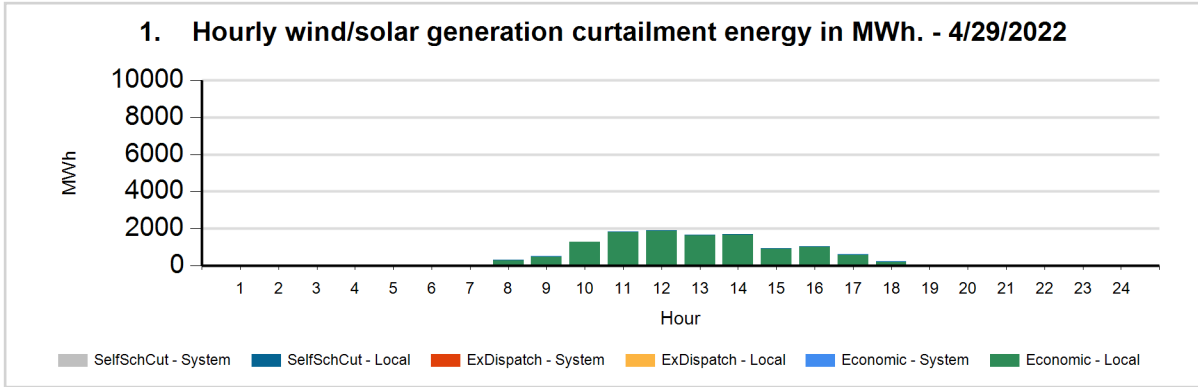
¹Only wind and solar resources can be reported in this manner because these resources have a forecast. Curtailment is defined as the difference between actual production and the forecast when actual production is less than the forecast.

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

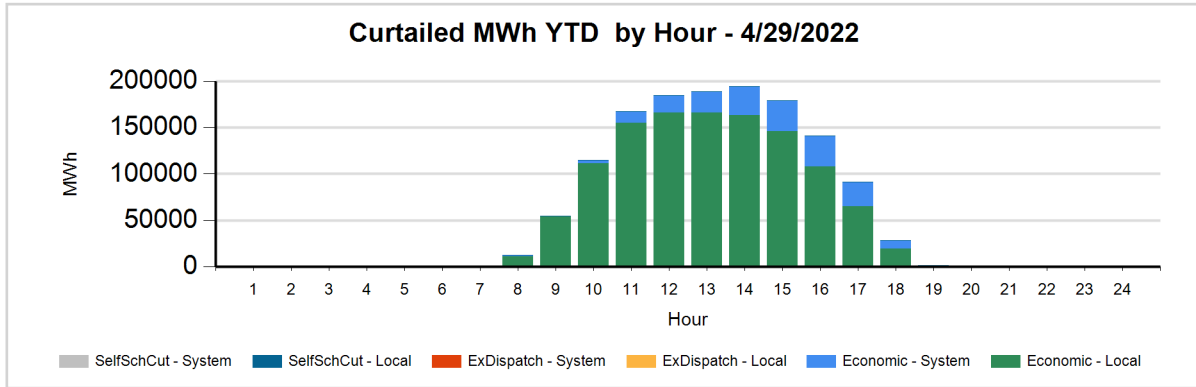
³Congestion occurs when available, least-cost energy cannot be delivered to some loads because transmission facilities do not have sufficient capacity to deliver the energy.

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

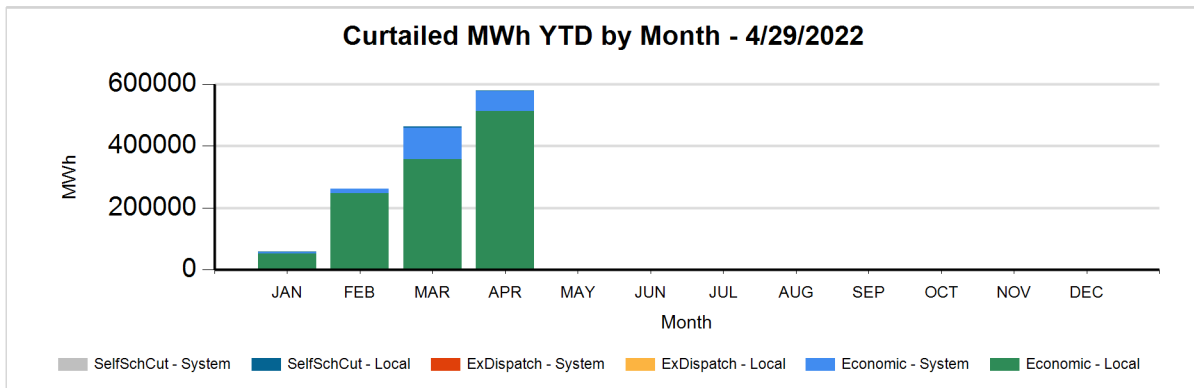
The following charts show the daily and 7-day wind and solar curtailment by category, if any.



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 - 4/29/2022
LocalEconomic	1,166,812
LocalSelfSchCut	4,345
SystemEconomic	191,533
TOTAL	1,362,691

Data used to produce hourly chart

DATE	HOUR	CURT TYPE	REASON	FUEL TYPE	CURTAILED MWH	CURTAILED MW
04/29	7	Economic	System	SOLR	2	25
04/29	7	Economic	System	WIND	0	
04/29	8	Economic	Local	SOLR	292	1065
04/29	8	Economic	Local	WIND	4	14
04/29	8	Economic	System	WIND	1	
04/29	8	SelfSchCut	Local	SOLR	5	14
04/29	9	Economic	Local	SOLR	501	881
04/29	9	Economic	Local	WIND	11	15
04/29	9	Economic	System	WIND	2	
04/29	10	Economic	Local	SOLR	1243	1845
04/29	10	Economic	Local	WIND	20	19
04/29	11	Economic	Local	SOLR	1802	2191
04/29	11	Economic	Local	WIND	25	39
04/29	11	SelfSchCut	Local	SOLR	5	9
04/29	12	Economic	Local	SOLR	1855	2139
04/29	12	Economic	Local	WIND	40	
04/29	12	SelfSchCut	Local	SOLR	2	
04/29	13	Economic	Local	SOLR	1662	1976
04/29	13	SelfSchCut	Local	SOLR	4	6
04/29	14	Economic	Local	SOLR	1669	1912
04/29	14	SelfSchCut	Local	SOLR	7	10
04/29	15	Economic	Local	SOLR	943	1737
04/29	15	Economic	Local	WIND	0	
04/29	15	SelfSchCut	Local	SOLR	2	10
04/29	16	Economic	Local	SOLR	1044	1143
04/29	16	SelfSchCut	Local	SOLR	1	
04/29	17	Economic	Local	SOLR	594	968
04/29	17	Economic	Local	WIND	4	2
04/29	17	Economic	System	SOLR	14	18
04/29	17	Economic	System	WIND	10	
04/29	18	Economic	Local	SOLR	199	535

04/29	18	Economic	Local	WIND	10	40
04/29	18	Economic	System	SOLR	29	115
04/29	18	Economic	System	WIND	3	4
04/29	19	Economic	Local	SOLR	12	38
04/29	19	Economic	System	SOLR	1	
04/29	19	SelfSchCut	Local	SOLR	5	15

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.