

Wind and Solar Curtailment April 09, 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.

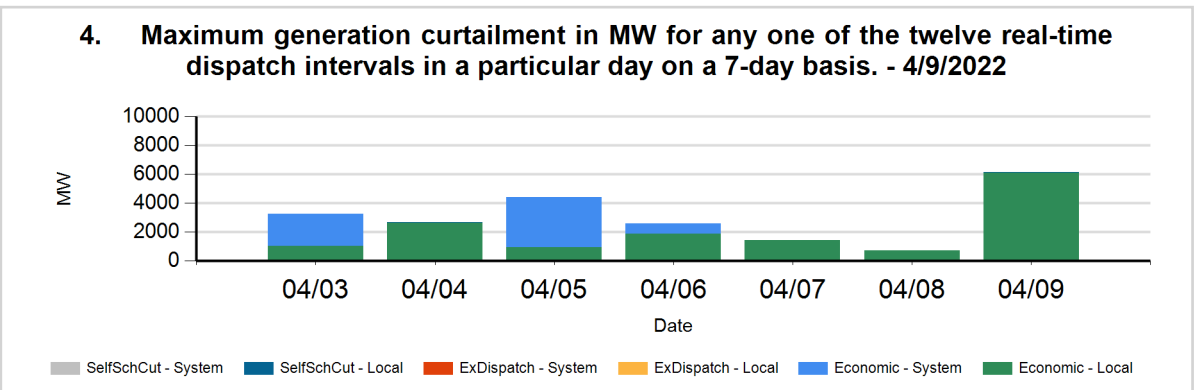
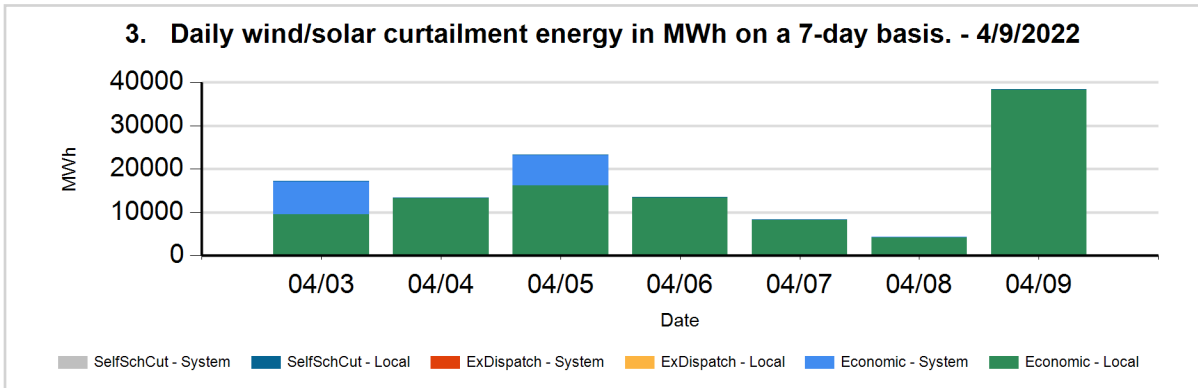
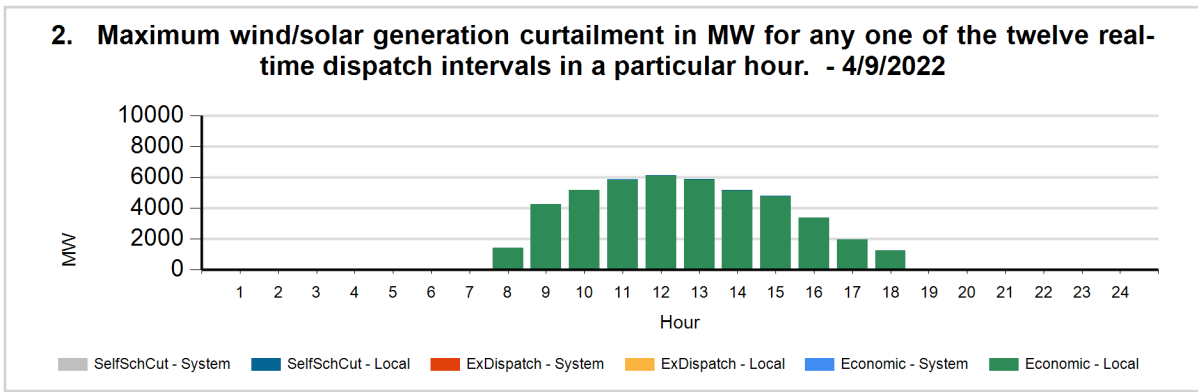
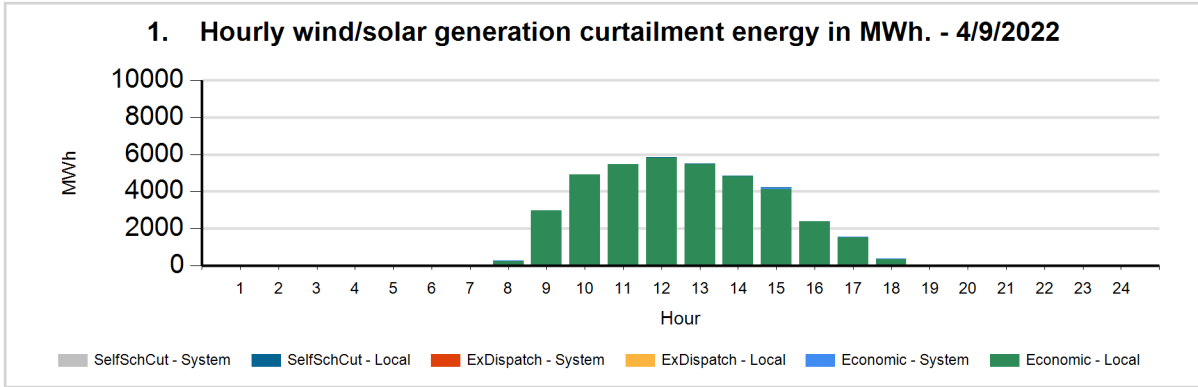
²The Renewables Watch report provides daily actual renewable production within the ISO grid. It is available at: <http://www.caiso.com/green/renewableswatch.html>.

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.

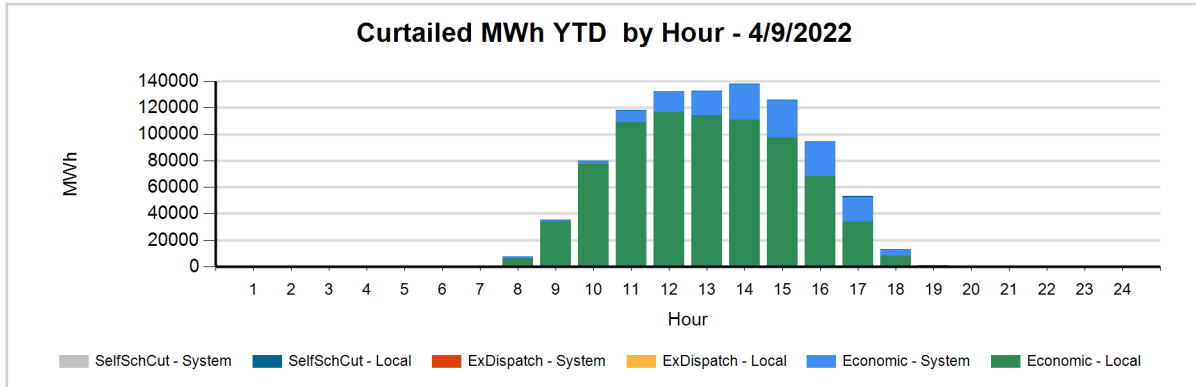
⁴For more information on oversupply conditions, please see:

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

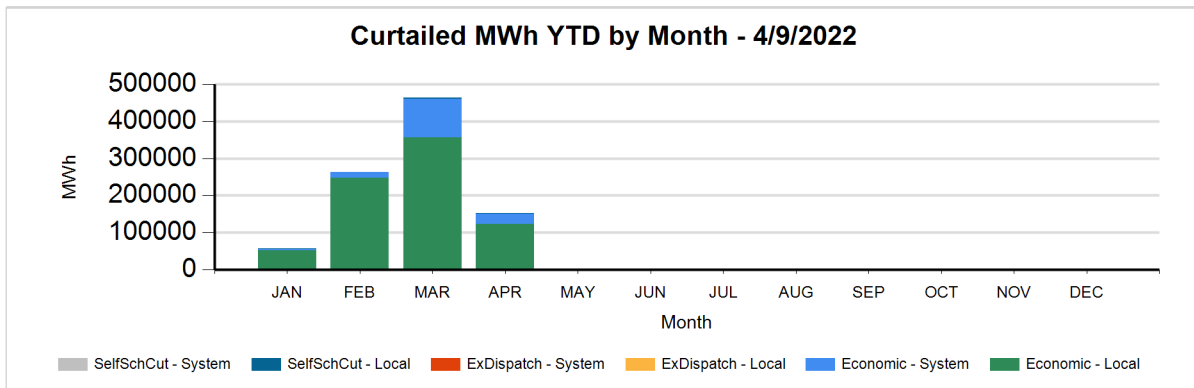
The following charts show the daily and 7-day wind and solar curtailment by category, if any.



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 - 4/9/2022
LocalEconomic	777,371
LocalSelfSchCut	3,931
SystemEconomic	152,885
TOTAL	934,186

Data used to produce hourly chart

DATE	HOUR	CURT TYPE	REASON	FUEL TYPE	CURTAILED MWH	CURTAILED MW
04/09	1	Economic	Local	WIND	1	3
04/09	8	Economic	Local	SOLR	277	1415
04/09	8	Economic	Local	WIND	2	12
04/09	8	Economic	System	SOLR	2	
04/09	9	Economic	Local	SOLR	2917	4077
04/09	9	Economic	Local	WIND	40	176
04/09	10	Economic	Local	SOLR	4692	4951
04/09	10	Economic	Local	WIND	210	240
04/09	11	Economic	Local	SOLR	5167	5535
04/09	11	Economic	Local	WIND	286	360
04/09	11	Economic	System	WIND	0	3
04/09	11	SelfSchCut	Local	SOLR	0	
04/09	12	Economic	Local	SOLR	5518	5781
04/09	12	Economic	Local	WIND	316	351
04/09	12	SelfSchCut	Local	SOLR	1	
04/09	12	SelfSchCut	Local	WIND	1	2
04/09	13	Economic	Local	SOLR	5230	5641
04/09	13	Economic	Local	WIND	265	252
04/09	13	SelfSchCut	Local	SOLR	2	5
04/09	14	Economic	Local	SOLR	4581	4827
04/09	14	Economic	Local	WIND	251	323
04/09	14	SelfSchCut	Local	SOLR	4	8
04/09	14	SelfSchCut	Local	WIND	0	
04/09	15	Economic	Local	SOLR	3960	4510
04/09	15	Economic	Local	WIND	170	277
04/09	15	Economic	System	SOLR	62	
04/09	15	Economic	System	WIND	25	
04/09	15	SelfSchCut	Local	SOLR	2	8
04/09	16	Economic	Local	SOLR	2386	3367
04/09	16	Economic	Local	WIND	8	14
04/09	16	SelfSchCut	Local	SOLR	0	

04/09	17	Economic	Local	SOLR	1538	1927
04/09	17	Economic	Local	WIND	5	18
04/09	17	Economic	System	SOLR	1	
04/09	18	Economic	Local	SOLR	380	1228
04/09	18	Economic	System	SOLR	2	
04/09	19	Economic	Local	SOLR	11	44
04/09	23	Economic	Local	WIND	0	
04/09	23	Economic	System	WIND	0	4
04/09	24	Economic	Local	WIND	1	7

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.