

Wind and Solar Curtailment April 11, 2023

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.

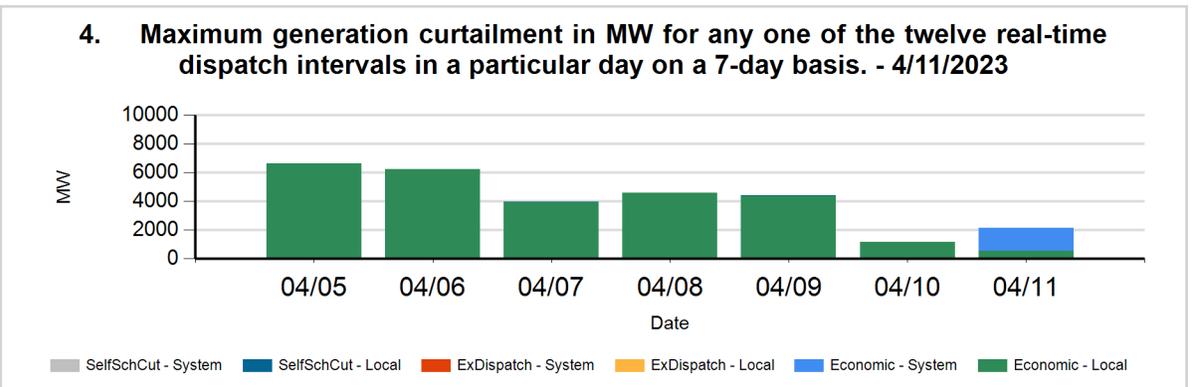
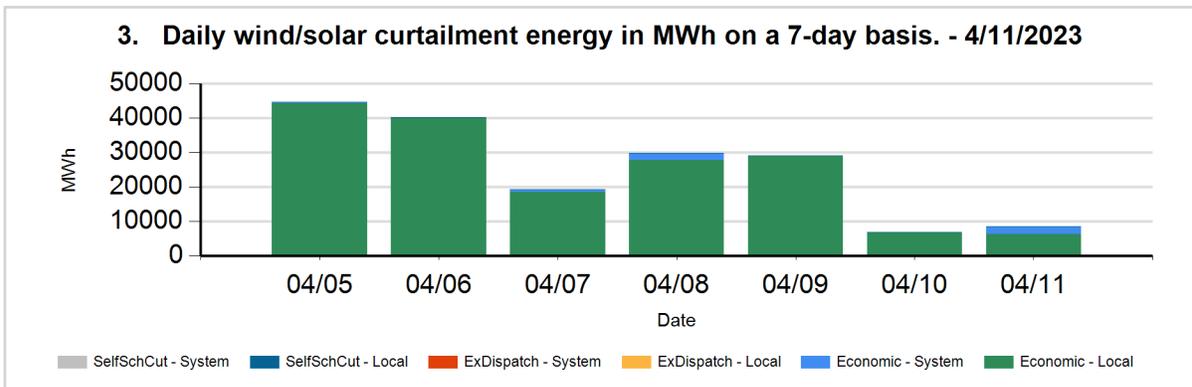
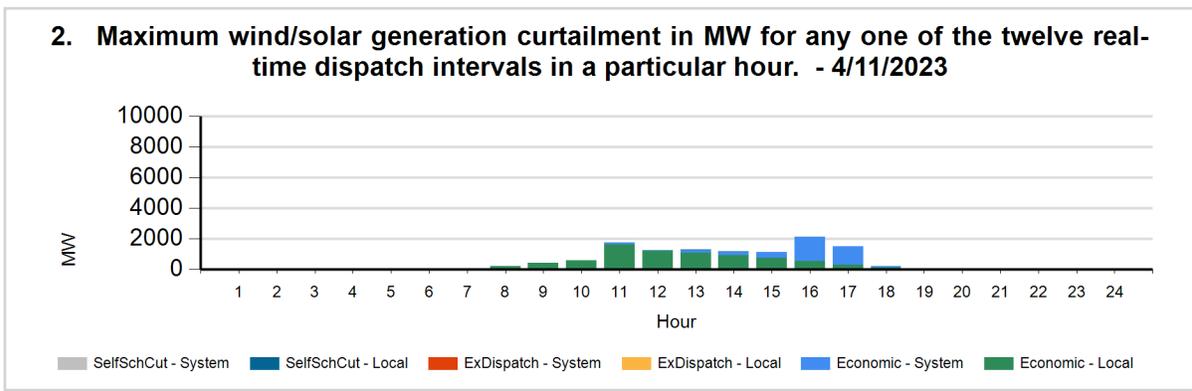
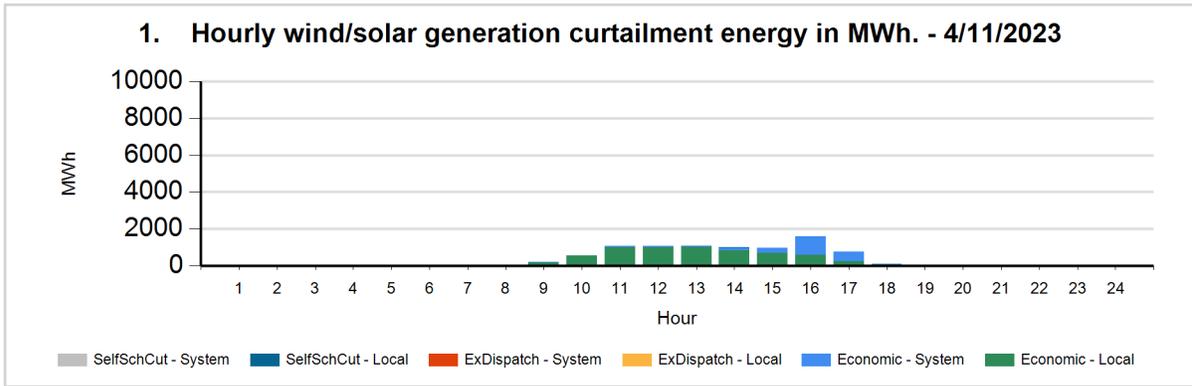
¹Only wind and solar resources can be reported in this manner because these resources have a forecast. Curtailment is defined as the difference between actual production and the forecast when actual production is less than the forecast.

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

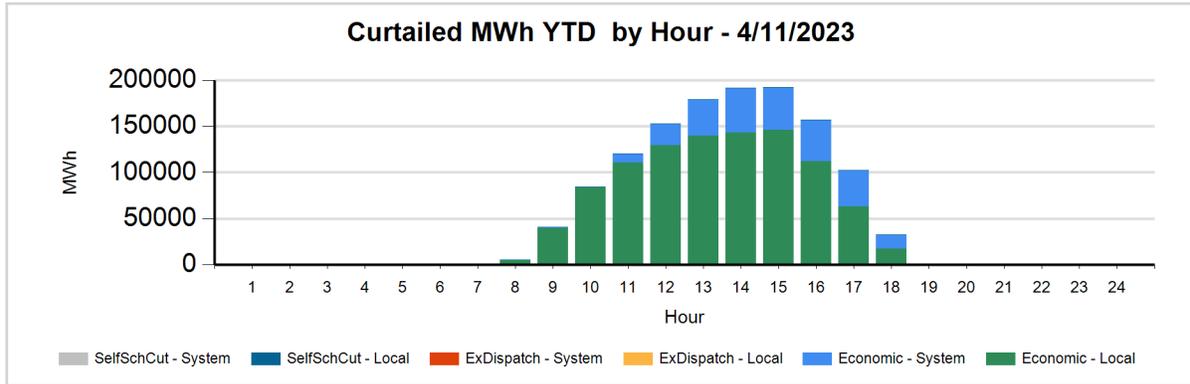
³Congestion occurs when available, least-cost energy cannot be delivered to some loads because transmission facilities do not have sufficient capacity to deliver the energy.

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

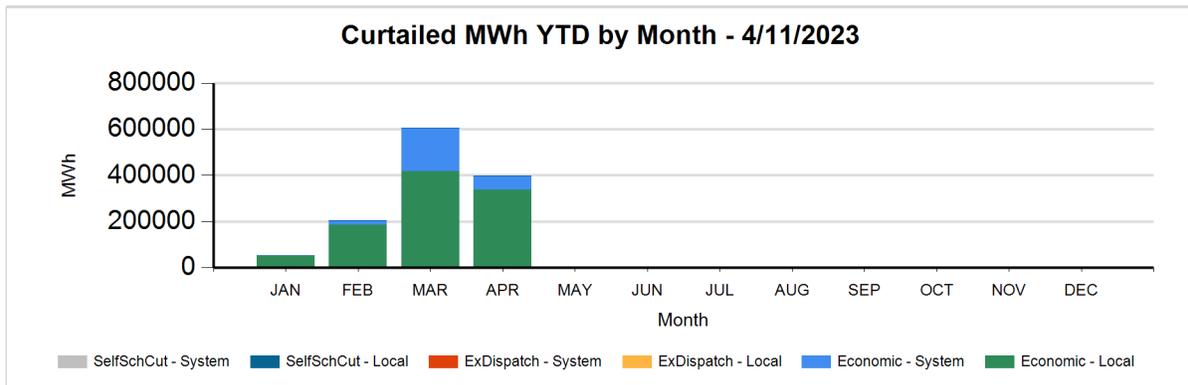
The following charts show the daily and 7-day wind and solar curtailment by category, if any.



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 - 4/11/2023
LocalEconomic	989,980
LocalSelfSchCut	143
SystemEconomic	271,905
TOTAL	1,262,027

Data used to produce hourly chart

DATE	HOUR	CURT TYPE	REASON	FUEL TYPE	CURTAILED MWH	CURTAILED MW
04/11	1	Economic	Local	WIND	3	
04/11	1	Economic	System	WIND	6	9
04/11	2	Economic	Local	WIND	4	9
04/11	2	Economic	System	WIND	4	
04/11	3	Economic	Local	WIND	1	7
04/11	3	Economic	System	WIND	1	
04/11	8	Economic	Local	SOLR	27	205
04/11	8	Economic	System	SOLR	1	
04/11	9	Economic	Local	SOLR	187	395
04/11	9	Economic	Local	WIND	3	6
04/11	9	Economic	System	SOLR	1	
04/11	10	Economic	Local	SOLR	524	555
04/11	10	Economic	Local	WIND	9	11
04/11	11	Economic	Local	SOLR	992	1592
04/11	11	Economic	Local	WIND	15	14
04/11	11	Economic	System	SOLR	61	140
04/11	11	Economic	System	WIND	2	
04/11	12	Economic	Local	SOLR	943	1205
04/11	12	Economic	Local	WIND	56	
04/11	12	Economic	System	SOLR	49	52
04/11	12	Economic	System	WIND	16	
04/11	12	SelfSchCut	Local	SOLR	0	
04/11	13	Economic	Local	SOLR	956	1071
04/11	13	Economic	Local	WIND	38	8
04/11	13	Economic	System	SOLR	37	89
04/11	13	Economic	System	WIND	23	116
04/11	13	SelfSchCut	Local	SOLR	5	5
04/11	14	Economic	Local	SOLR	825	917
04/11	14	Economic	Local	WIND	19	12
04/11	14	Economic	System	SOLR	74	88
04/11	14	Economic	System	WIND	95	149

04/11	14	SelfSchCut	Local	SOLR	2	7
04/11	15	Economic	Local	SOLR	623	718
04/11	15	Economic	Local	WIND	57	13
04/11	15	Economic	System	SOLR	135	161
04/11	15	Economic	System	WIND	152	248
04/11	16	Economic	Local	SOLR	561	519
04/11	16	Economic	Local	WIND	14	14
04/11	16	Economic	System	SOLR	678	1215
04/11	16	Economic	System	WIND	336	379
04/11	17	Economic	Local	SOLR	193	291
04/11	17	Economic	Local	WIND	57	14
04/11	17	Economic	System	SOLR	215	792
04/11	17	Economic	System	WIND	299	405
04/11	18	Economic	Local	SOLR	77	123
04/11	18	Economic	Local	WIND	14	13
04/11	18	Economic	System	WIND	6	69
04/11	19	Economic	Local	SOLR	5	29
04/11	19	Economic	Local	WIND	11	13
04/11	19	Economic	System	SOLR	2	
04/11	20	Economic	Local	WIND	9	10
04/11	21	Economic	Local	WIND	9	9
04/11	22	Economic	Local	WIND	7	9
04/11	23	Economic	Local	WIND	6	9
04/11	24	Economic	Local	WIND	8	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.



California ISO