

Wind and Solar Curtailment April 06, 2024

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.

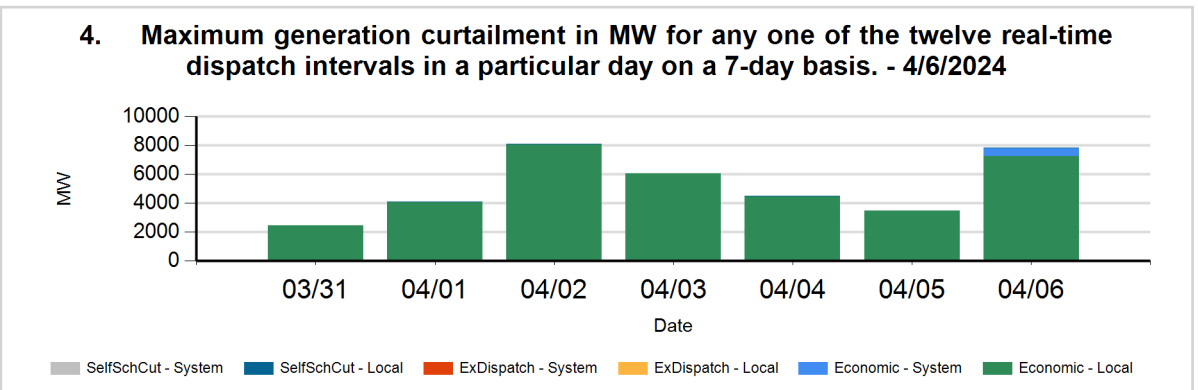
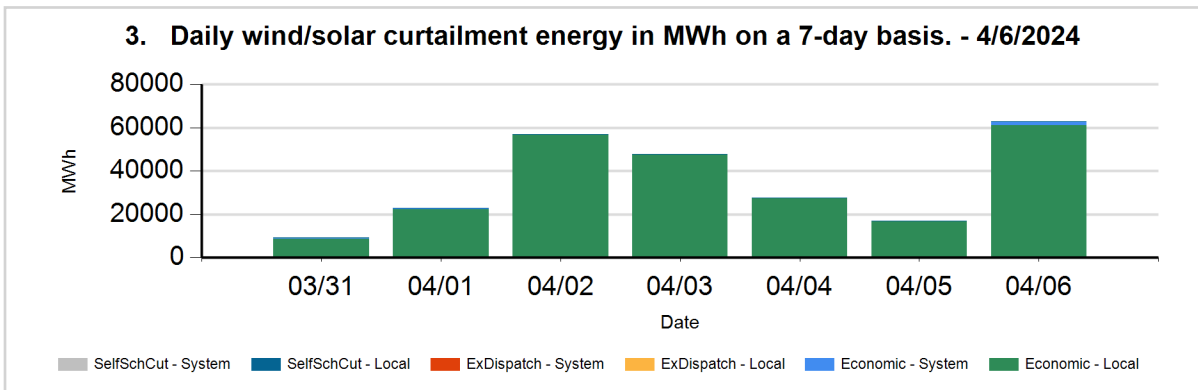
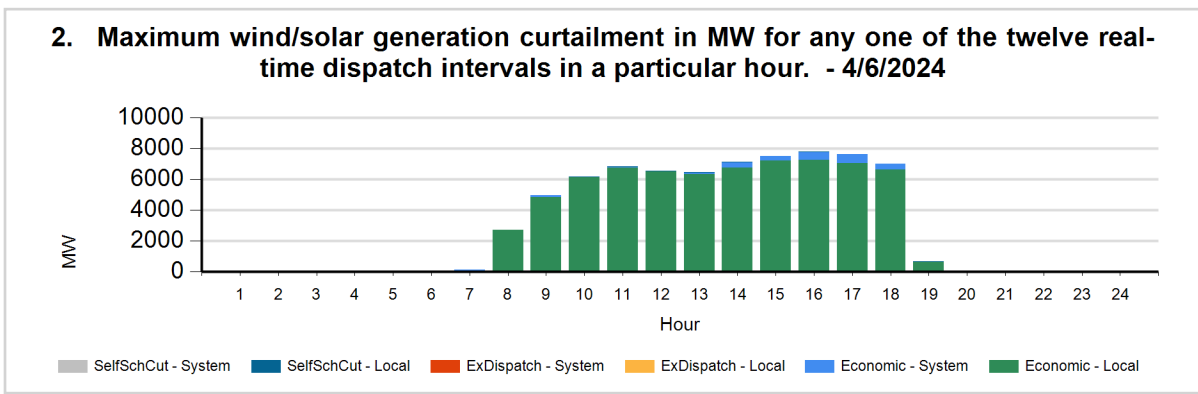
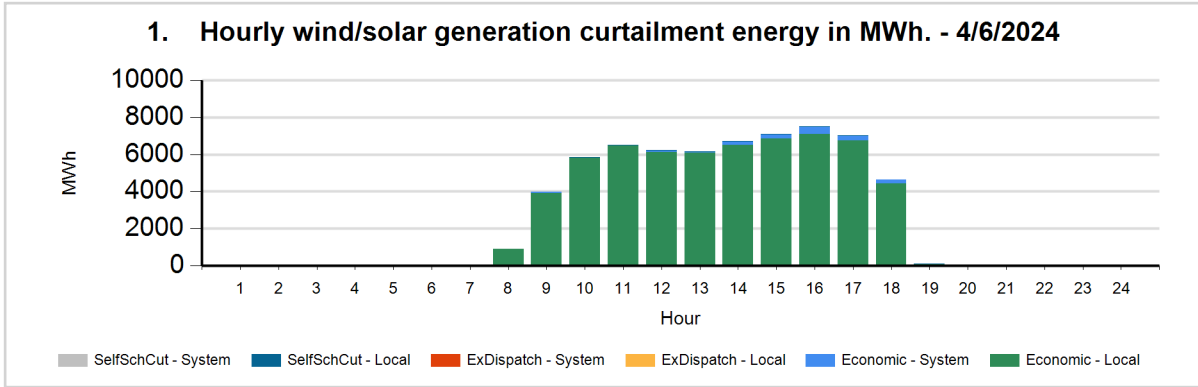
¹Only wind and solar resources can be reported in this manner because these resources have a forecast. Curtailment is defined as the difference between actual production and the forecast when actual production is less than the forecast.

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

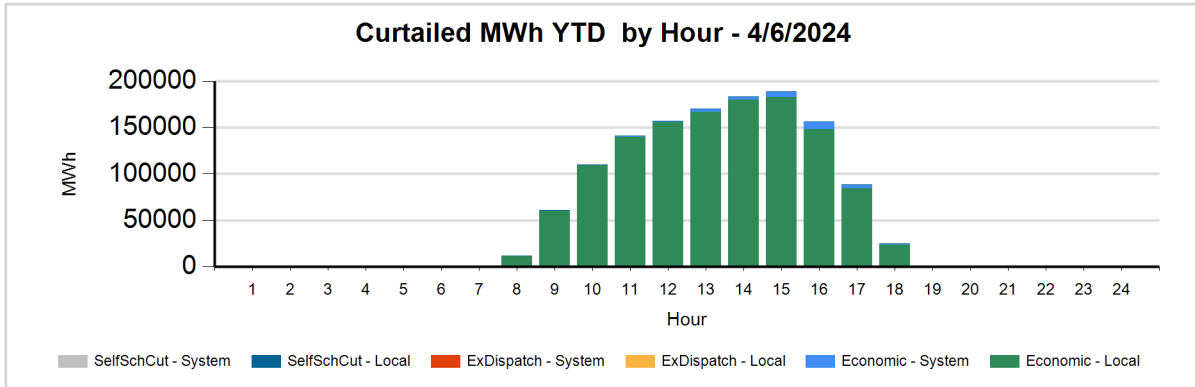
³Congestion occurs when available, least-cost energy cannot be delivered to some loads because transmission facilities do not have sufficient capacity to deliver the energy.

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

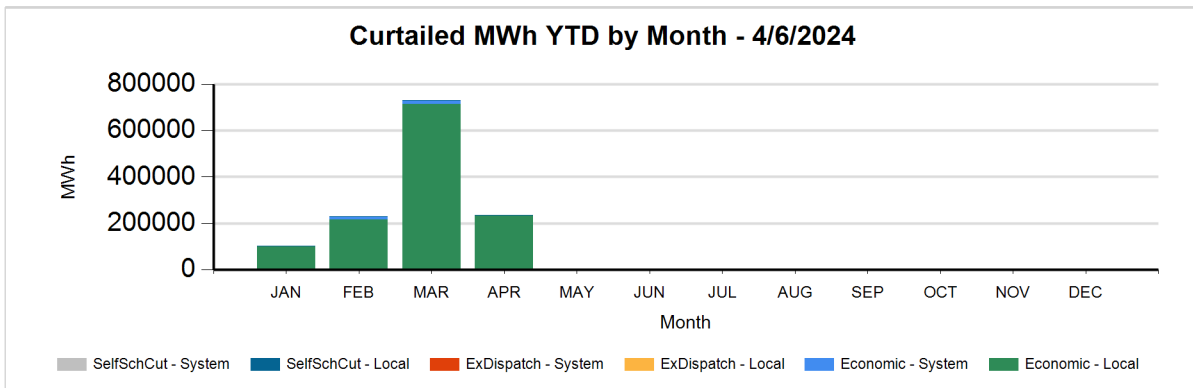
The following charts show the daily and 7-day wind and solar curtailment by category, if any.



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 - 4/6/2024
LocalEconomic	1,262,504
LocalSelfSchCut	621
SystemEconomic	31,428
TOTAL	1,294,553

Data used to produce hourly chart

DATE	HOUR	CURT TYPE	REASON	FUEL TYPE	CURTAILED MWH	CURTAILED MW
04/06	7	Economic	System	SOLR	9	107
04/06	7	Economic	System	WIND	1	10
04/06	8	Economic	Local	SOLR	805	2355
04/06	8	Economic	Local	WIND	101	334
04/06	9	Economic	Local	SOLR	3591	4567
04/06	9	Economic	Local	WIND	304	263
04/06	9	Economic	System	SOLR	67	130
04/06	10	Economic	Local	SOLR	5629	5976
04/06	10	Economic	Local	WIND	208	173
04/06	10	Economic	System	SOLR	15	10
04/06	10	SelfSchCut	Local	SOLR	1	5
04/06	11	Economic	Local	SOLR	6300	6580
04/06	11	Economic	Local	WIND	162	165
04/06	11	Economic	System	SOLR	46	107
04/06	11	Economic	System	WIND	1	
04/06	11	SelfSchCut	Local	SOLR	6	3
04/06	12	Economic	Local	SOLR	6025	6432
04/06	12	Economic	Local	WIND	113	75
04/06	12	Economic	System	SOLR	62	28
04/06	12	SelfSchCut	Local	SOLR	10	4
04/06	13	Economic	Local	SOLR	5984	6242
04/06	13	Economic	Local	WIND	95	83
04/06	13	Economic	System	SOLR	79	111
04/06	13	Economic	System	WIND	6	16
04/06	13	SelfSchCut	Local	SOLR	10	7
04/06	14	Economic	Local	SOLR	6390	6681
04/06	14	Economic	Local	WIND	111	95
04/06	14	Economic	System	SOLR	185	323
04/06	14	Economic	System	WIND	2	7
04/06	14	SelfSchCut	Local	SOLR	8	6
04/06	15	Economic	Local	SOLR	6720	7041

04/06	15	Economic	Local	WIND	135	161
04/06	15	Economic	System	SOLR	213	296
04/06	15	Economic	System	WIND	6	6
04/06	15	SelfSchCut	Local	SOLR	3	
04/06	16	Economic	Local	SOLR	6877	7035
04/06	16	Economic	Local	WIND	203	215
04/06	16	Economic	System	SOLR	423	535
04/06	16	Economic	System	WIND	15	8
04/06	16	SelfSchCut	Local	SOLR	2	3
04/06	17	Economic	Local	SOLR	6452	6800
04/06	17	Economic	Local	WIND	282	232
04/06	17	Economic	System	SOLR	292	570
04/06	17	Economic	System	WIND	9	50
04/06	17	SelfSchCut	Local	SOLR	1	
04/06	18	Economic	Local	SOLR	4052	6328
04/06	18	Economic	Local	WIND	388	319
04/06	18	Economic	System	SOLR	192	355
04/06	18	Economic	System	WIND	2	
04/06	19	Economic	Local	SOLR	98	621
04/06	19	Economic	Local	WIND	3	32
04/06	19	SelfSchCut	Local	SOLR	1	3

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.