

Wind and Solar Curtailment May 02, 2021

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.

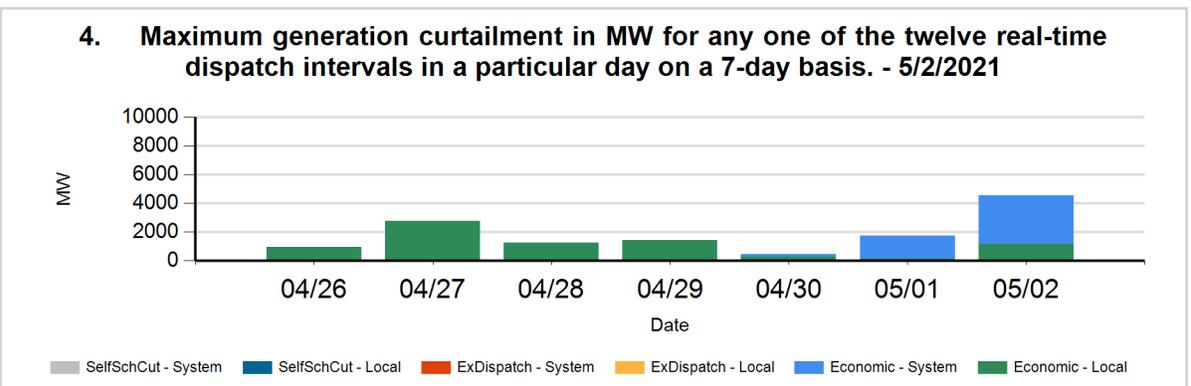
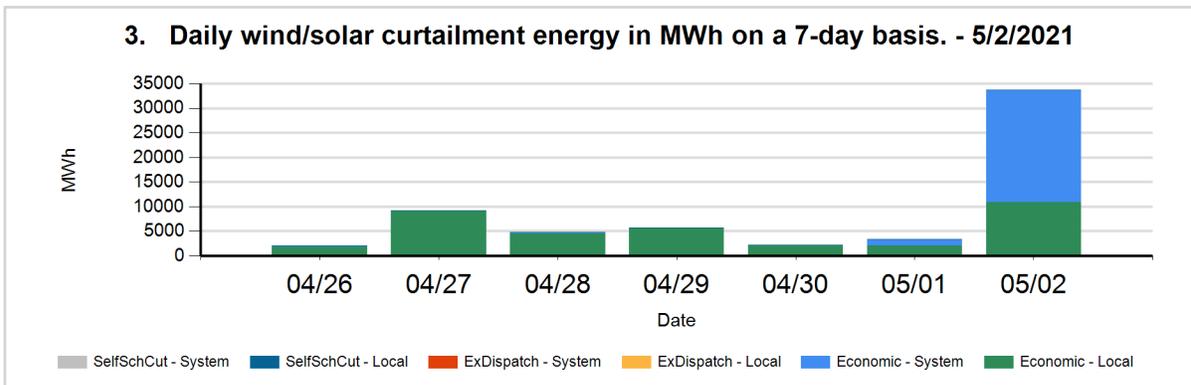
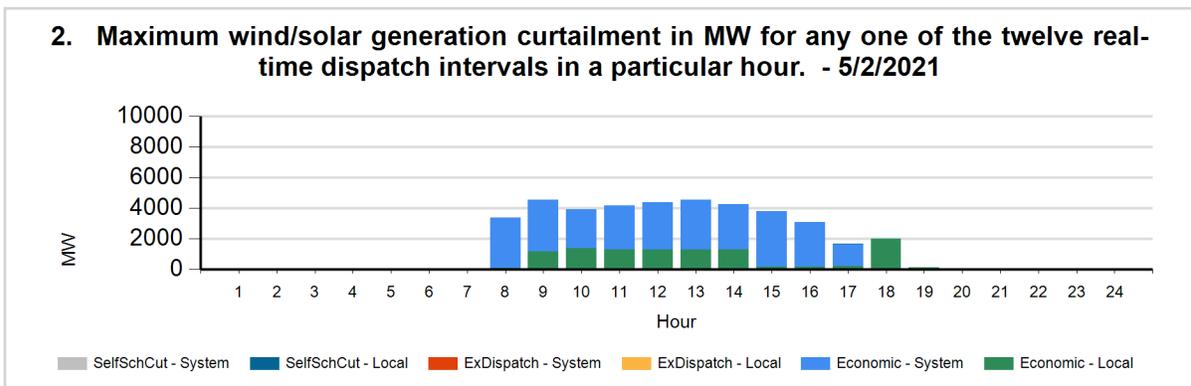
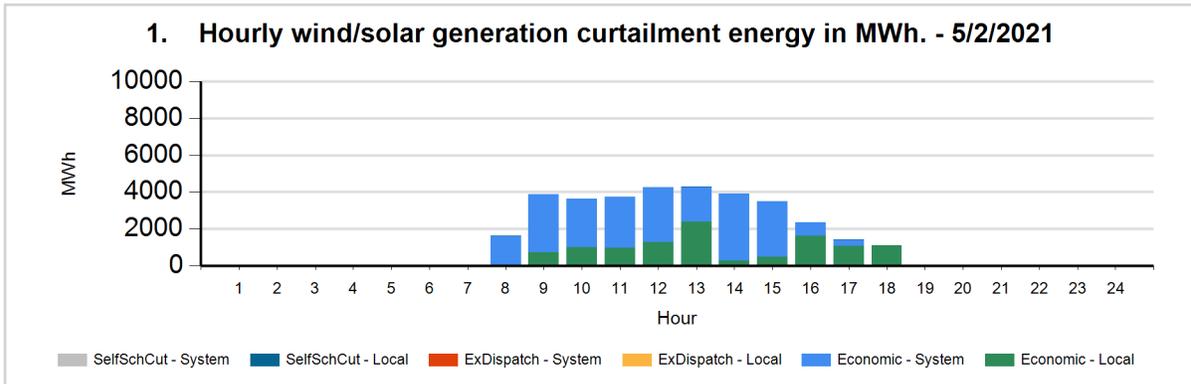
¹Only wind and solar resources can be reported in this manner because these resources have a forecast. Curtailment is defined as the difference between actual production and the forecast when actual production is less than the forecast.

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

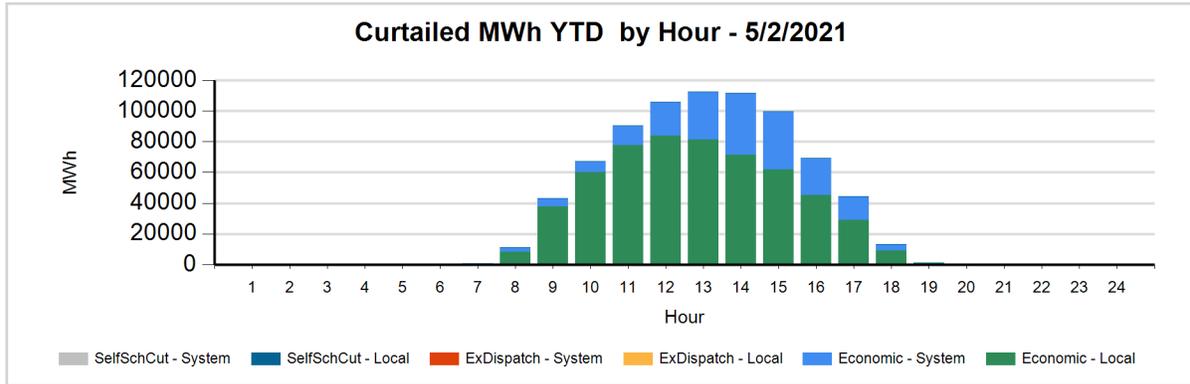
³Congestion occurs when available, least-cost energy cannot be delivered to some loads because transmission facilities do not have sufficient capacity to deliver the energy.

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

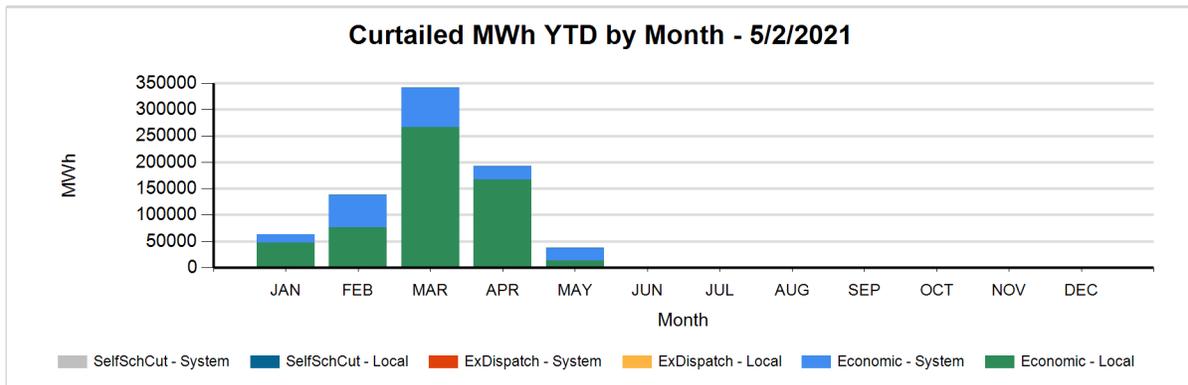
The following charts show the daily and 7-day wind and solar curtailment by category, if any.



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 - 5/2/2021
LocalEconomic	568,634
LocalSelfSchCut	2,494
SystemEconomic	200,400
TOTAL	771,527

Data used to produce hourly chart

DATE	HOUR	CURT TYPE	REASON	FUEL TYPE	CURTAILED MWH	CURTAILED MW
05/02	8	Economic	Local	SOLR	33	66
05/02	8	Economic	System	SOLR	1542	3138
05/02	8	Economic	System	WIND	53	187
05/02	8	SelfSchCut	Local	SOLR	1	
05/02	9	Economic	Local	SOLR	717	1153
05/02	9	Economic	Local	WIND	4	7
05/02	9	Economic	System	SOLR	2908	3020
05/02	9	Economic	System	WIND	243	360
05/02	10	Economic	Local	SOLR	971	1337
05/02	10	Economic	Local	WIND	38	31
05/02	10	Economic	System	SOLR	2457	2305
05/02	10	Economic	System	WIND	151	238
05/02	11	Economic	Local	SOLR	926	1224
05/02	11	Economic	Local	WIND	41	55
05/02	11	Economic	System	SOLR	2645	2702
05/02	11	Economic	System	WIND	109	184
05/02	12	Economic	Local	SOLR	1226	1221
05/02	12	Economic	Local	WIND	54	54
05/02	12	Economic	System	SOLR	2722	2729
05/02	12	Economic	System	WIND	236	361
05/02	13	Economic	Local	SOLR	2302	1232
05/02	13	Economic	Local	WIND	75	50
05/02	13	Economic	System	SOLR	1647	2857
05/02	13	Economic	System	WIND	265	387
05/02	13	SelfSchCut	Local	SOLR	1	
05/02	14	Economic	Local	SOLR	255	1231
05/02	14	Economic	Local	WIND	4	51
05/02	14	Economic	System	SOLR	3475	2738
05/02	14	Economic	System	WIND	163	227
05/02	15	Economic	Local	SOLR	461	183
05/02	15	Economic	Local	WIND	9	

05/02	15	Economic	System	SOLR	2937	3508
05/02	15	Economic	System	WIND	92	100
05/02	16	Economic	Local	SOLR	1620	157
05/02	16	Economic	Local	WIND	20	
05/02	16	Economic	System	SOLR	700	2887
05/02	16	Economic	System	WIND	17	58
05/02	17	Economic	Local	SOLR	1056	190
05/02	17	Economic	Local	WIND	4	
05/02	17	Economic	System	SOLR	360	1438
05/02	17	Economic	System	WIND	11	36
05/02	17	SelfSchCut	Local	SOLR	1	4
05/02	18	Economic	Local	SOLR	1088	1965
05/02	18	Economic	Local	WIND	7	20
05/02	19	Economic	Local	SOLR	32	113

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.