

Wind and Solar Curtailment March 07, 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.

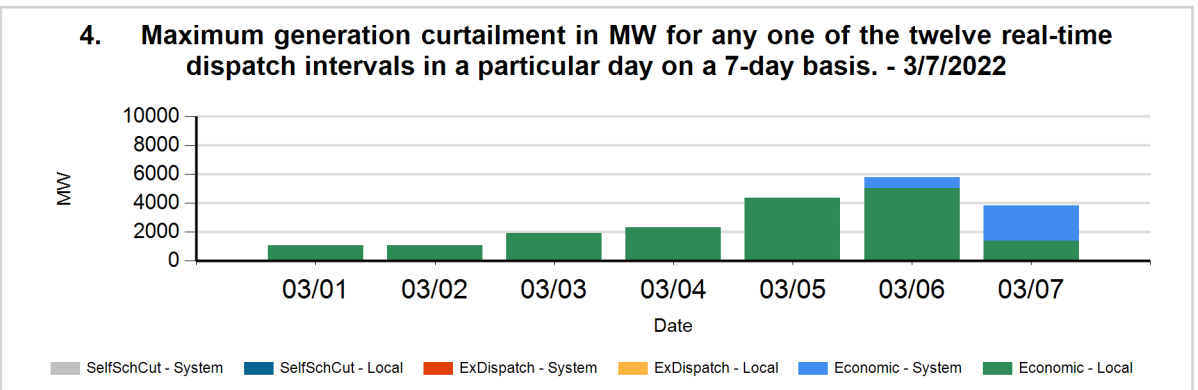
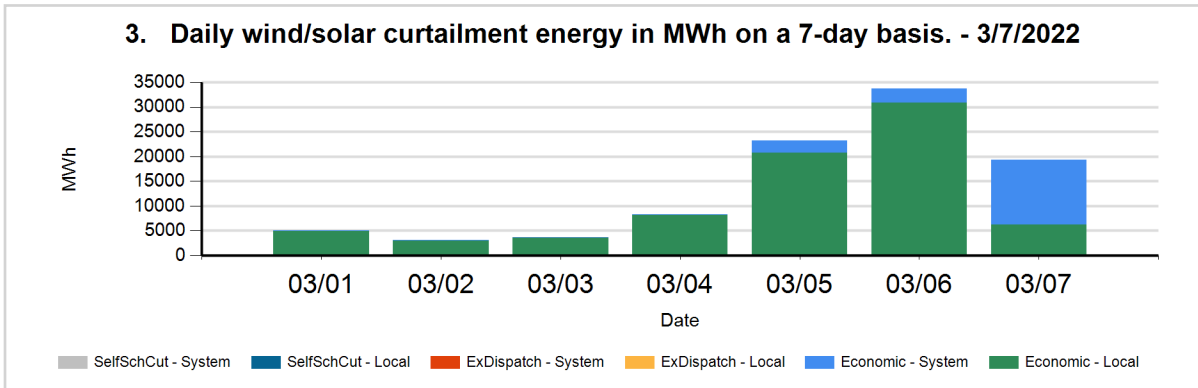
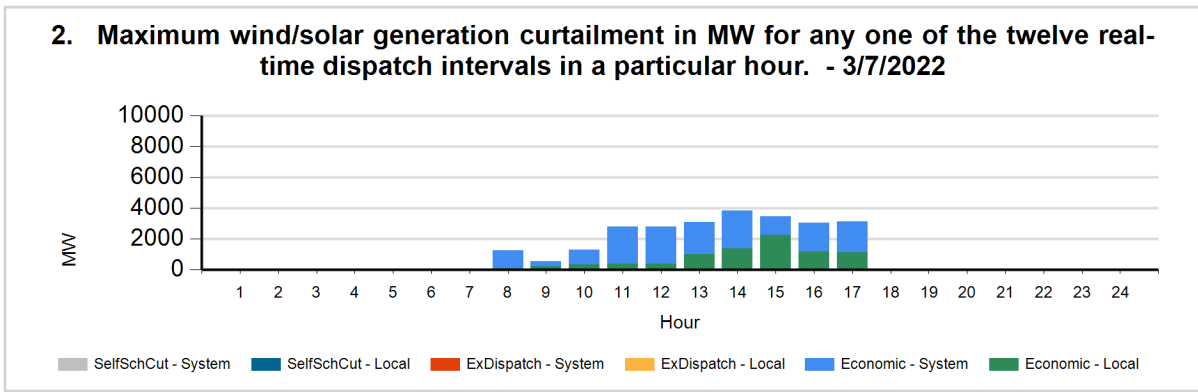
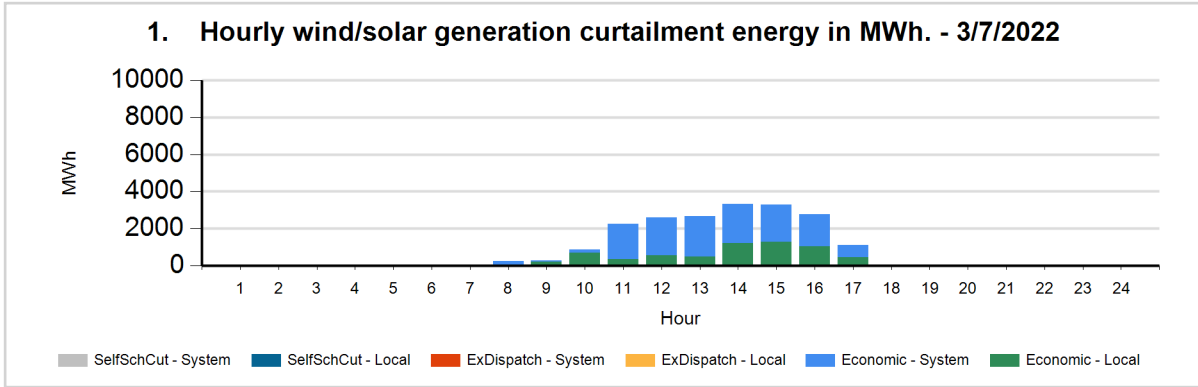
¹Only wind and solar resources can be reported in this manner because these resources have a forecast. Curtailment is defined as the difference between actual production and the forecast when actual production is less than the forecast.

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

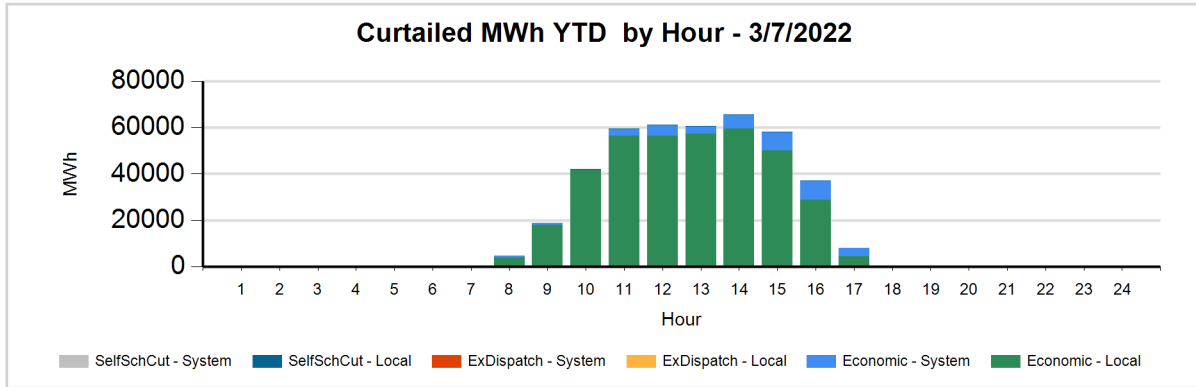
³Congestion occurs when available, least-cost energy cannot be delivered to some loads because transmission facilities do not have sufficient capacity to deliver the energy.

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

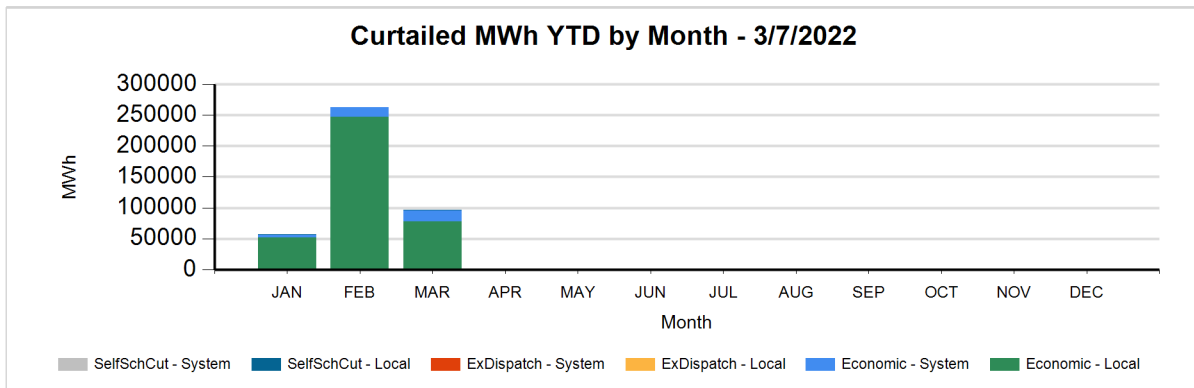
The following charts show the daily and 7-day wind and solar curtailment by category, if any.



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 - 3/7/2022
LocalEconomic	376,080
LocalSelfSchCut	65
SystemEconomic	39,747
TOTAL	415,892

Data used to produce hourly chart

DATE	HOUR	CURT TYPE	REASON	FUEL TYPE	CURTAILED MWH	CURTAILED MW
03/07	6	Economic	Local	WIND	2	22
03/07	7	Economic	System	SOLR	4	48
03/07	8	Economic	Local	SOLR	14	58
03/07	8	Economic	System	SOLR	212	1179
03/07	8	Economic	System	WIND	5	18
03/07	9	Economic	Local	SOLR	195	222
03/07	9	Economic	System	SOLR	62	283
03/07	9	Economic	System	WIND	5	25
03/07	10	Economic	Local	SOLR	690	321
03/07	10	Economic	System	SOLR	152	963
03/07	10	Economic	System	WIND	4	24
03/07	11	Economic	Local	SOLR	341	375
03/07	11	Economic	System	SOLR	1865	2381
03/07	11	Economic	System	WIND	45	56
03/07	12	Economic	Local	SOLR	552	376
03/07	12	Economic	Local	WIND	4	
03/07	12	Economic	System	SOLR	1982	2372
03/07	12	Economic	System	WIND	45	49
03/07	13	Economic	Local	SOLR	493	1001
03/07	13	Economic	Local	WIND	2	9
03/07	13	Economic	System	SOLR	2133	2032
03/07	13	Economic	System	WIND	43	28
03/07	14	Economic	Local	SOLR	1208	1370
03/07	14	Economic	Local	WIND	11	18
03/07	14	Economic	System	SOLR	2038	2271
03/07	14	Economic	System	WIND	63	171
03/07	15	Economic	Local	SOLR	1255	2105
03/07	15	Economic	Local	WIND	27	165
03/07	15	Economic	System	SOLR	1845	1137
03/07	15	Economic	System	WIND	156	56
03/07	16	Economic	Local	SOLR	1021	1146

03/07	16	Economic	Local	WIND	17	20
03/07	16	Economic	System	SOLR	1707	1860
03/07	16	Economic	System	WIND	31	29
03/07	17	Economic	Local	SOLR	427	1103
03/07	17	Economic	Local	WIND	11	18
03/07	17	Economic	System	SOLR	663	1978
03/07	17	Economic	System	WIND	10	29

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.