

Wind and Solar Curtailment March 15, 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.

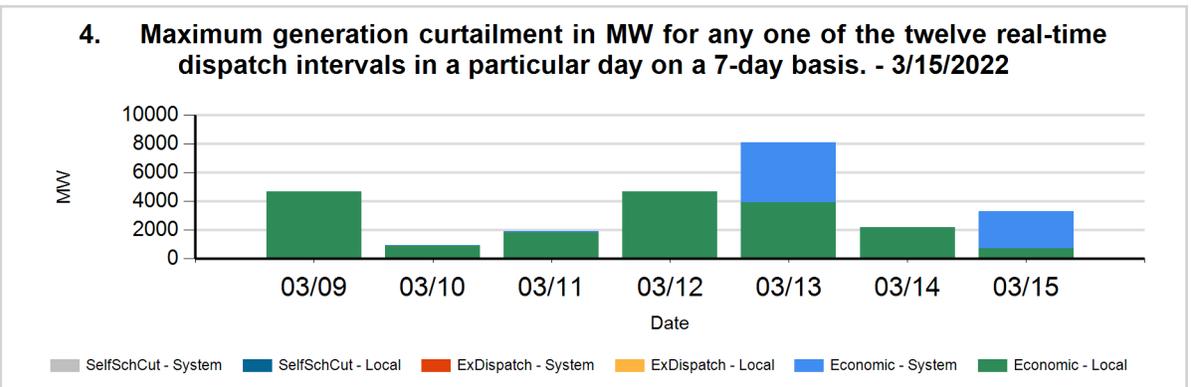
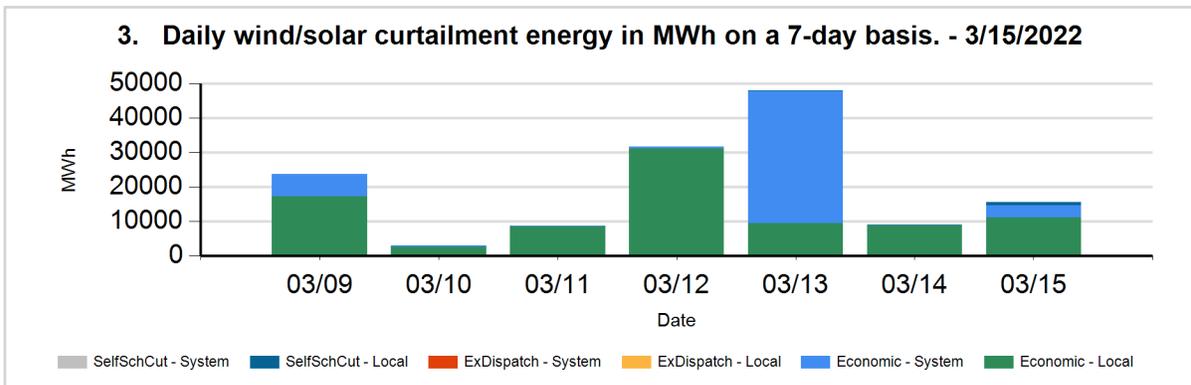
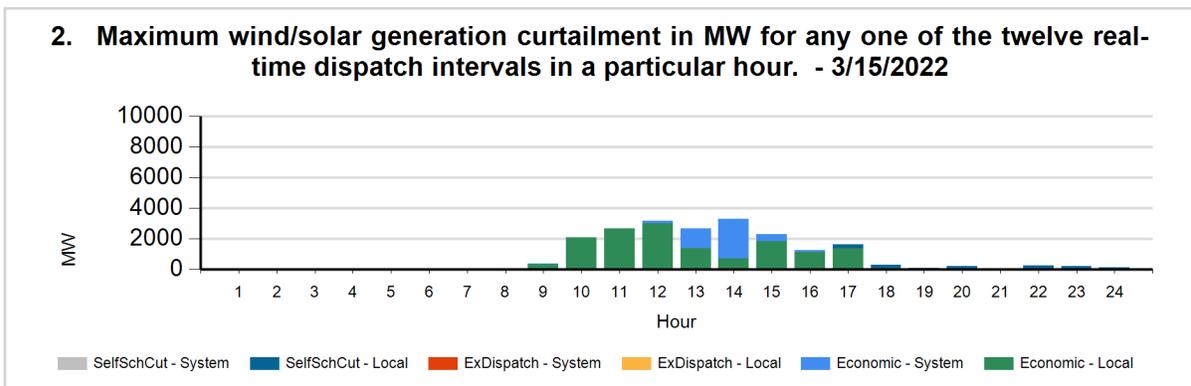
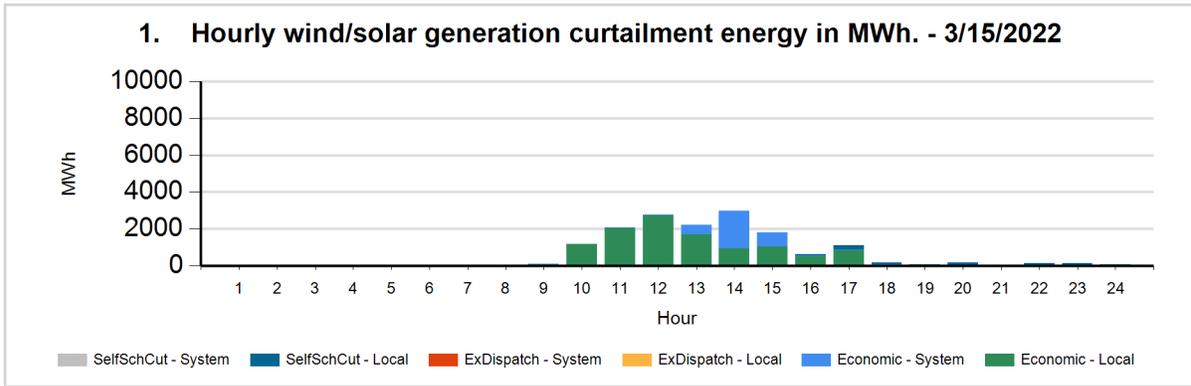
¹Only wind and solar resources can be reported in this manner because these resources have a forecast. Curtailment is defined as the difference between actual production and the forecast when actual production is less than the forecast.

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

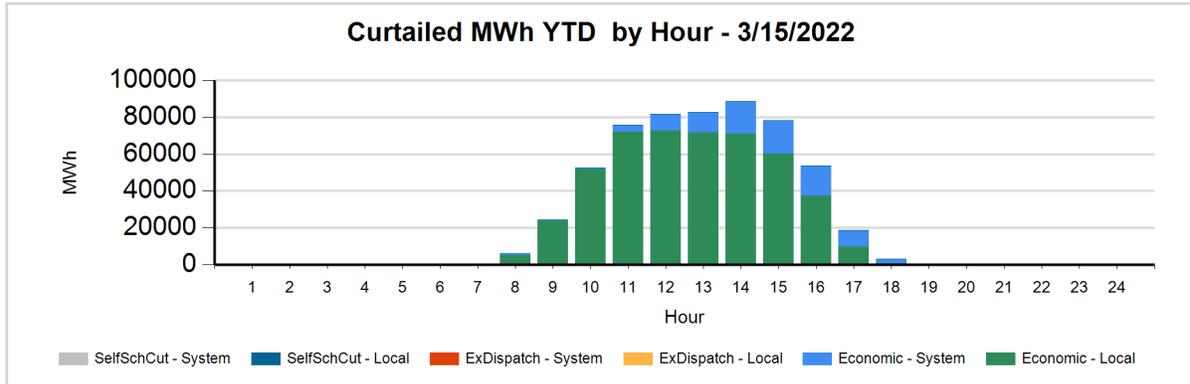
³Congestion occurs when available, least-cost energy cannot be delivered to some loads because transmission facilities do not have sufficient capacity to deliver the energy.

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

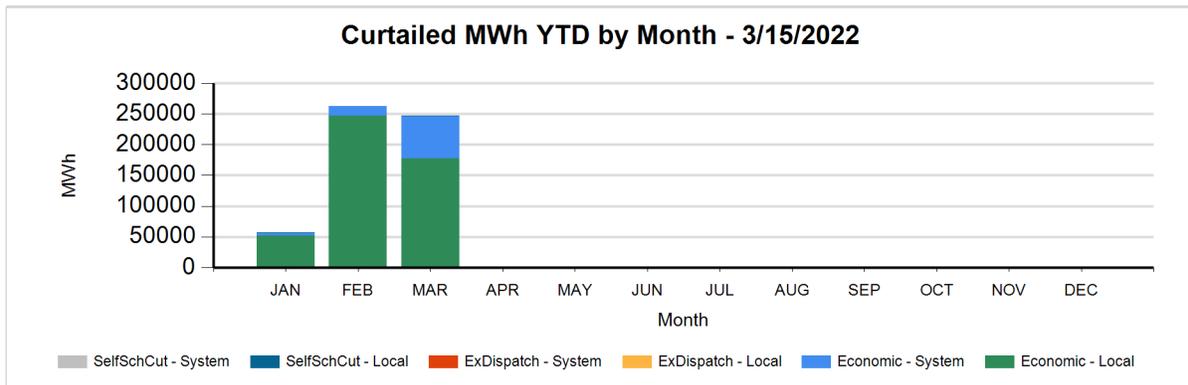
The following charts show the daily and 7-day wind and solar curtailment by category, if any.



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 - 3/15/2022
LocalEconomic	476,052
LocalSelfSchCut	1,037
SystemEconomic	89,061
TOTAL	566,150

Data used to produce hourly chart

DATE	HOUR	CURT TYPE	REASON	FUEL TYPE	CURTAILED MWH	CURTAILED MW
03/15	9	Economic	Local	SOLR	87	372
03/15	9	Economic	System	SOLR	10	4
03/15	10	Economic	Local	SOLR	1169	2069
03/15	10	Economic	Local	WIND	2	11
03/15	10	Economic	System	SOLR	0	
03/15	11	Economic	Local	SOLR	2023	2651
03/15	11	Economic	Local	WIND	7	10
03/15	11	Economic	System	SOLR	29	
03/15	12	Economic	Local	SOLR	2666	2923
03/15	12	Economic	Local	WIND	48	95
03/15	12	Economic	System	SOLR	61	135
03/15	13	Economic	Local	SOLR	1699	1362
03/15	13	Economic	Local	WIND	6	
03/15	13	Economic	System	SOLR	487	1155
03/15	13	Economic	System	WIND	15	130
03/15	14	Economic	Local	SOLR	917	702
03/15	14	Economic	Local	WIND	1	
03/15	14	Economic	System	SOLR	1880	2370
03/15	14	Economic	System	WIND	174	217
03/15	15	Economic	Local	SOLR	1044	1817
03/15	15	Economic	Local	WIND	3	5
03/15	15	Economic	System	SOLR	741	482
03/15	15	Economic	System	WIND	3	
03/15	16	Economic	Local	SOLR	534	1136
03/15	16	Economic	Local	WIND	22	6
03/15	16	Economic	System	SOLR	9	93
03/15	16	Economic	System	WIND	0	3
03/15	16	SelfSchCut	Local	SOLR	1	
03/15	16	SelfSchCut	Local	WIND	57	
03/15	17	Economic	Local	SOLR	771	1381
03/15	17	Economic	Local	WIND	80	11

03/15	17	Economic	System	SOLR	24	
03/15	17	Economic	System	WIND	0	
03/15	17	SelfSchCut	Local	SOLR	11	29
03/15	17	SelfSchCut	Local	WIND	230	197
03/15	18	Economic	Local	SOLR	23	54
03/15	18	Economic	Local	WIND	7	8
03/15	18	Economic	System	SOLR	17	
03/15	18	Economic	System	WIND	2	
03/15	18	SelfSchCut	Local	SOLR	1	7
03/15	18	SelfSchCut	Local	WIND	125	231
03/15	19	Economic	Local	SOLR	1	1
03/15	19	Economic	Local	WIND	7	7
03/15	19	Economic	System	SOLR	0	
03/15	19	SelfSchCut	Local	WIND	61	80
03/15	20	Economic	Local	WIND	7	7
03/15	20	SelfSchCut	Local	WIND	151	202
03/15	21	Economic	Local	WIND	2	7
03/15	21	SelfSchCut	Local	WIND	3	27
03/15	22	Economic	Local	WIND	10	7
03/15	22	SelfSchCut	Local	WIND	121	227
03/15	23	Economic	Local	WIND	7	8
03/15	23	SelfSchCut	Local	WIND	139	211
03/15	24	Economic	Local	WIND	7	8
03/15	24	SelfSchCut	Local	WIND	71	101

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