

Wind and Solar Curtailment March 29, 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 systemwide oversupply.
- 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.

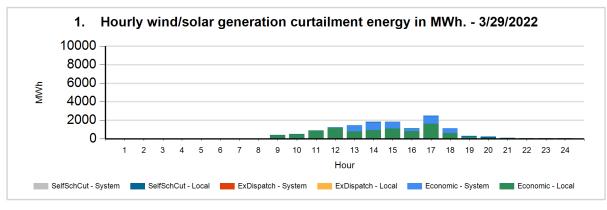
²The Renewables Watch report provides daily actual renewable production within the ISO grid. It is available at: <u>http://www.caiso.com/green/renewableswatch.html</u>.

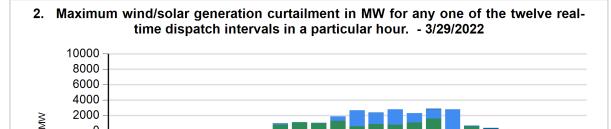
³Congestion occurs when available, least-cost energy cannot be delivered to some loads because transmission facilities do not have sufficient capacity to deliver the energy.

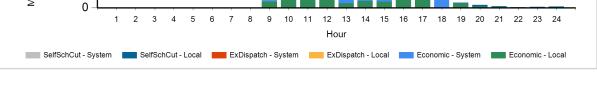
For more information on oversupply conditions, please see: <u>https://www.caiso.com/Documents/FlexibleResourcesHelpRenewables_FastFacts.pdf</u>

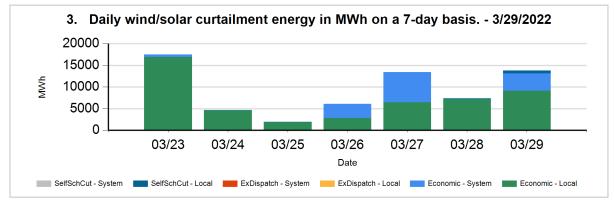


The following charts show the daily and 7-day wind and solar curtailment by category, if any.

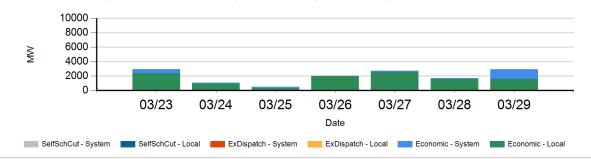






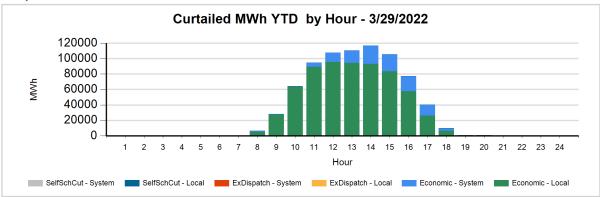


4. Maximum generation curtailment in MW for any one of the twelve real-time dispatch intervals in a particular day on a 7-day basis. - 3/29/2022

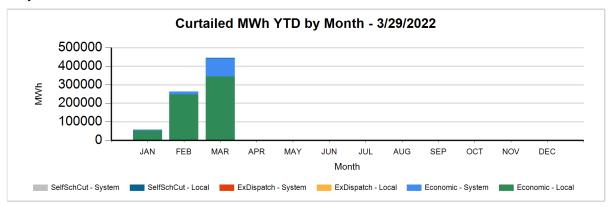




The following charts show hourly year to date wind and solar curtailment by category, if any.



The following charts show monthly year to date wind and solar curtailment by category, if any.



TYPE	YTD CURTAILED MWH - 3/29/2022
LocalEconomic	642,754
LocalSelfSchCut	3,826
SystemEconomic	118,432
TOTAL	765,013



Data used to produce hourly chart

DATE	HOU R	CURT TYPE	REASON	FUEL TYPE	CURTAILED MWH	CURTAILED MW
03/29	7	Economic	Local	WIND	4	47
03/29	8	Economic	Local	SOLR	0	
03/29	8	Economic	Local	WIND	10	34
03/29	8	Economic	System	SOLR	1	8
03/29	9	Economic	Local	SOLR	323	760
03/29	9	Economic	Local	WIND	37	19
03/29	9	Economic	System	SOLR	28	77
03/29	9	Economic	System	WIND	11	28
03/29	9	SelfSchCut	Local	SOLR	3	13
03/29	9	SelfSchCut	Local	WIND	14	54
03/29	10	Economic	Local	SOLR	434	1061
03/29	10	Economic	Local	WIND	60	24
03/29	10	Economic	System	SOLR	15	34
03/29	10	Economic	System	WIND	0	3
03/29	10	SelfSchCut	Local	WIND	11	
03/29	11	Economic	Local	SOLR	737	751
03/29	11	Economic	Local	WIND	137	282
03/29	11	Economic	System	SOLR	22	7
03/29	11	SelfSchCut	Local	WIND	1	
03/29	12	Economic	Local	SOLR	1047	1234
03/29	12	Economic	Local	WIND	80	54
03/29	12	Economic	System	SOLR	94	538
03/29	12	Economic	System	WIND	3	35
03/29	12	SelfSchCut	Local	WIND	2	
03/29	13	Economic	Local	SOLR	767	534
03/29	13	Economic	Local	WIND	22	27
03/29	13	Economic	System	SOLR	645	2064
03/29	13	Economic	System	WIND	20	31
03/29	13	SelfSchCut	Local	WIND	7	
03/29	14	Economic	Local	SOLR	913	825
03/29	14	Economic	Local	WIND	29	26



03/29	14	Economic	System	SOLR	794	1435
03/29	14	Economic	System	WIND	32	31
03/29	14	SelfSchCut	Local	SOLR	1	3
03/29	14	SelfSchCut	Local	WIND	59	68
03/29	15	Economic	Local	SOLR	1054	783
03/29	15	Economic	Local	WIND	39	11
03/29	15	Economic	System	SOLR	688	1898
03/29	15	Economic	System	WIND	29	85
03/29	15	SelfSchCut	Local	SOLR	0	
03/29	15	SelfSchCut	Local	WIND	24	
03/29	16	Economic	Local	SOLR	782	1087
03/29	16	Economic	Local	WIND	57	11
03/29	16	Economic	System	SOLR	269	1057
03/29	16	Economic	System	WIND	32	138
03/29	16	SelfSchCut	Local	WIND	6	
03/29	17	Economic	Local	SOLR	1332	1292
03/29	17	Economic	Local	WIND	279	280
03/29	17	Economic	System	SOLR	782	1164
03/29	17	Economic	System	WIND	23	37
03/29	17	SelfSchCut	Local	SOLR	1	3
03/29	17	SelfSchCut	Local	WIND	63	89
03/29	18	Economic	Local	SOLR	428	
03/29	18	Economic	Local	WIND	201	
03/29	18	Economic	System	SOLR	482	2604
03/29	18	Economic	System	WIND	37	193
03/29	19	Economic	Local	SOLR	55	351
03/29	19	Economic	Local	WIND	151	207
03/29	19	Economic	System	SOLR	8	21
03/29	19	SelfSchCut	Local	WIND	103	75
03/29	20	Economic	Local	WIND	51	165
03/29	20	SelfSchCut	Local	WIND	171	206
03/29	21	Economic	Local	WIND	36	124
03/29	21	SelfSchCut	Local	WIND	48	69
03/29	22	Economic	Local	WIND	18	13



03/29	22	SelfSchCut	Local	WIND	32	84
03/29	23	Economic	Local	WIND	12	13
03/29	23	SelfSchCut	Local	WIND	39	97
03/29	24	Economic	Local	WIND	11	13
03/29	24	SelfSchCut	Local	WIND	68	134

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.