

## Wind and Solar Curtailment March 16, 2022

This report is produced daily to provide a detailed accounting of the wind and solar renewable generation that was curtailed and the reasons why<sup>1</sup>. This report should be read in the context of the Renewables Watch report for a more complete understanding of both renewable curtailment and generation<sup>2</sup>.

Wind and solar curtailments are grouped into the following categories:

1. Economic - Local: Market dispatch of generators with economic bids to mitigate local congestion<sup>3</sup>.
2. Economic - System: Market dispatch of generators with economic bids to mitigate system-wide oversupply<sup>4</sup>.
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.

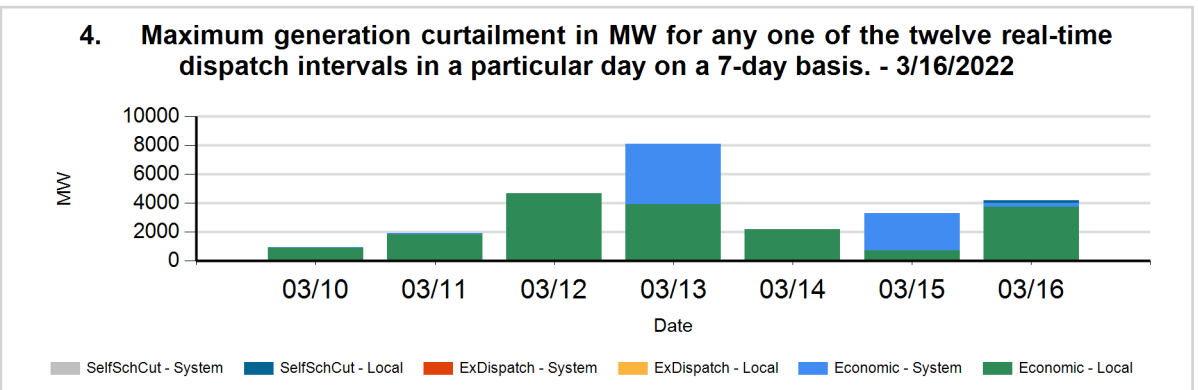
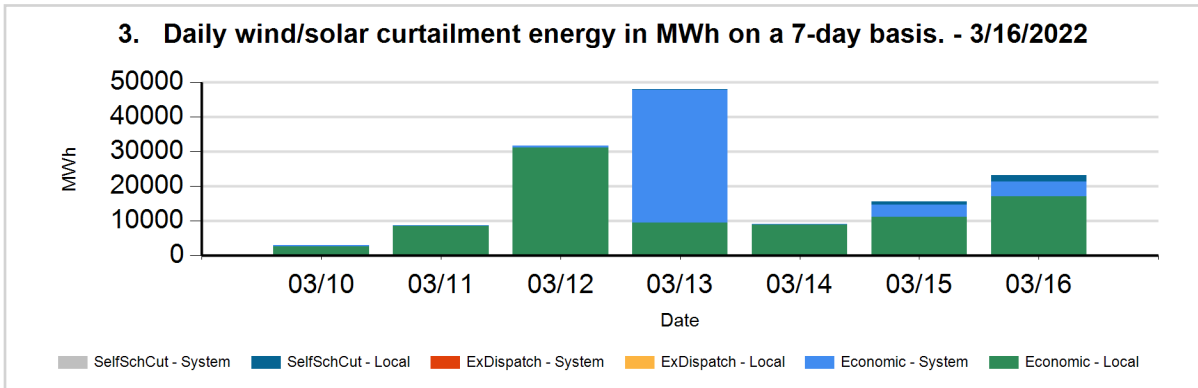
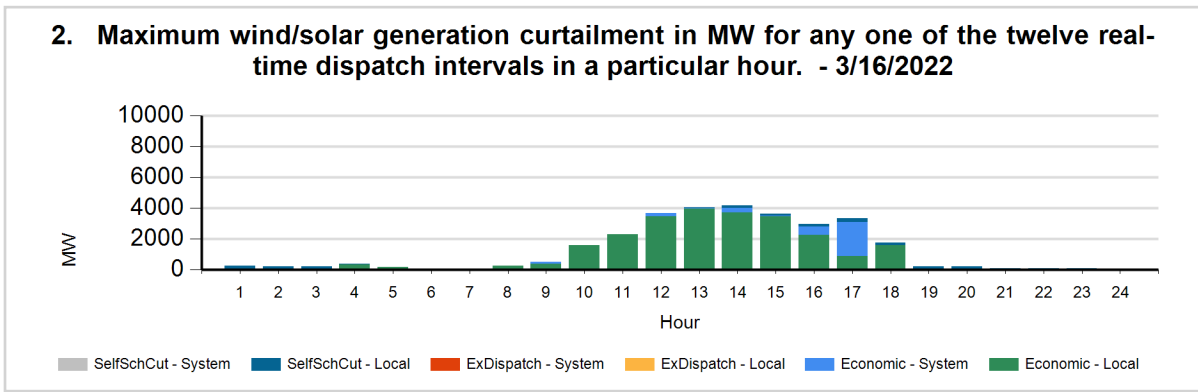
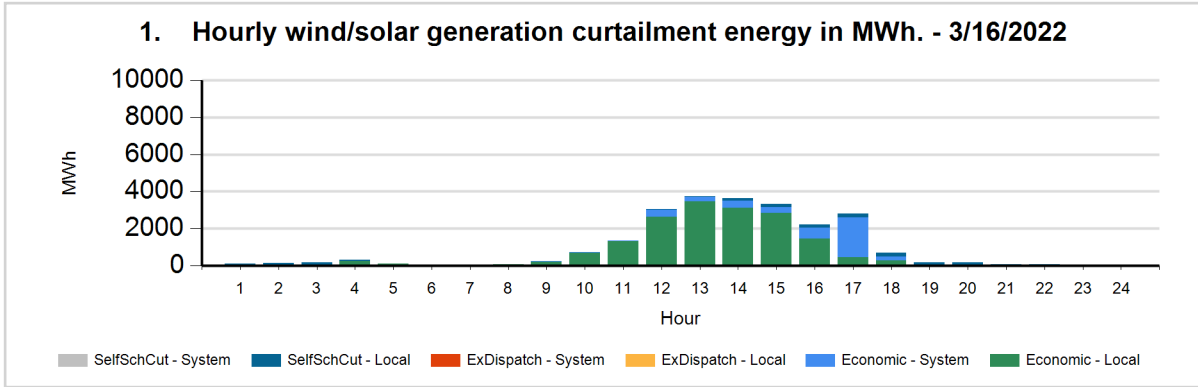
<sup>1</sup>Only wind and solar resources can be reported in this manner because these resources have a forecast. Curtailment is defined as the difference between actual production and the forecast when actual production is less than the forecast.

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

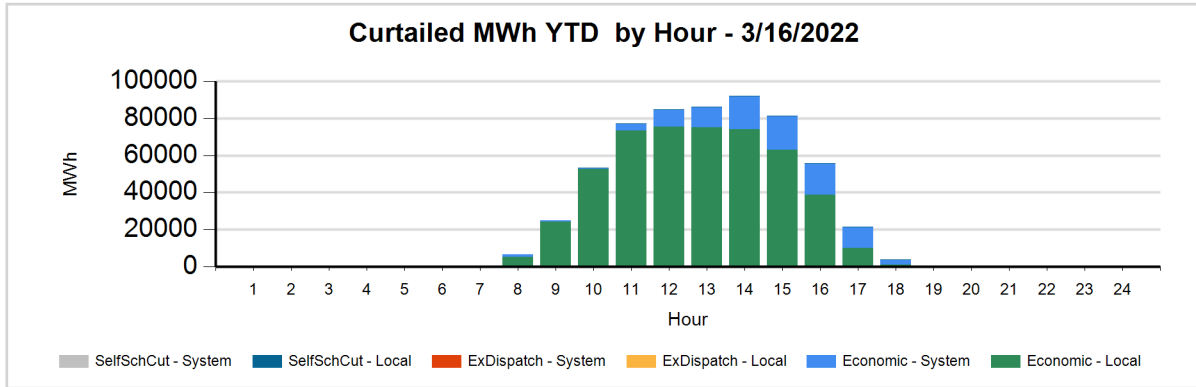
<sup>3</sup>Congestion occurs when available, least-cost energy cannot be delivered to some loads because transmission facilities do not have sufficient capacity to deliver the energy.

<sup>4</sup>For more information on oversupply conditions, please see: [https://www.caiso.com/Documents/FlexibleResourcesHelpRenewables\\_FastFacts.pdf](https://www.caiso.com/Documents/FlexibleResourcesHelpRenewables_FastFacts.pdf)

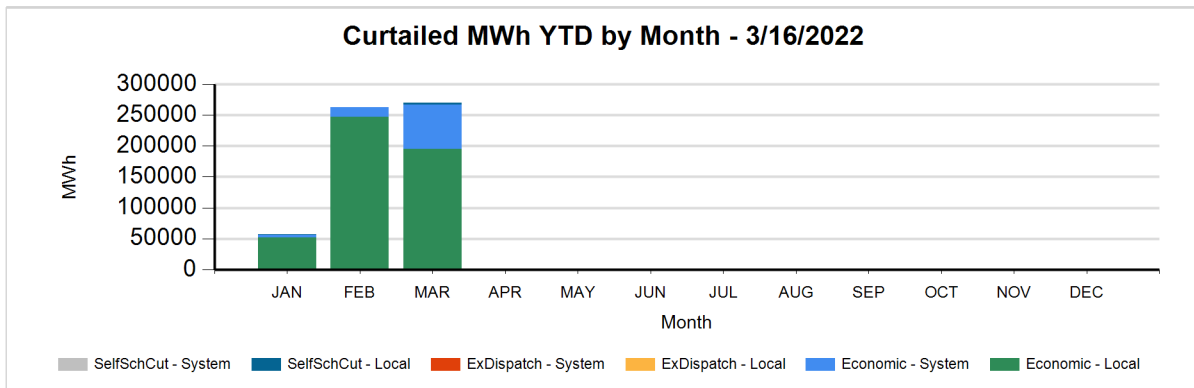
The following charts show the daily and 7-day wind and solar curtailment by category, if any.



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 - 3/16/2022
LocalEconomic	493,020
LocalSelfSchCut	2,811
SystemEconomic	93,421
TOTAL	589,253

**Data used to produce hourly chart**

DATE	HOUR	CURT TYPE	REASON	FUEL TYPE	CURTAILED MWH	CURTAILED MW
03/16	1	Economic	Local	WIND	8	7
03/16	1	SelfSchCut	Local	WIND	87	221
03/16	2	Economic	Local	WIND	8	9
03/16	2	SelfSchCut	Local	WIND	122	177
03/16	3	Economic	Local	WIND	8	7
03/16	3	SelfSchCut	Local	WIND	151	187
03/16	4	Economic	Local	WIND	231	315
03/16	4	SelfSchCut	Local	WIND	63	44
03/16	5	Economic	Local	WIND	103	178
03/16	6	Economic	Local	WIND	2	15
03/16	7	Economic	Local	WIND	2	19
03/16	8	Economic	Local	SOLR	46	214
03/16	8	Economic	Local	WIND	16	49
03/16	9	Economic	Local	SOLR	191	381
03/16	9	Economic	Local	WIND	21	
03/16	9	Economic	System	SOLR	22	119
03/16	9	Economic	System	WIND	0	6
03/16	10	Economic	Local	SOLR	688	1573
03/16	10	Economic	Local	WIND	40	18
03/16	10	Economic	System	SOLR	6	
03/16	11	Economic	Local	SOLR	1349	2285
03/16	11	Economic	Local	WIND	9	13
03/16	11	Economic	System	SOLR	5	
03/16	11	Economic	System	WIND	0	
03/16	12	Economic	Local	SOLR	2485	3187
03/16	12	Economic	Local	WIND	134	280
03/16	12	Economic	System	SOLR	427	218
03/16	12	SelfSchCut	Local	SOLR	11	
03/16	13	Economic	Local	SOLR	3194	3694
03/16	13	Economic	Local	WIND	260	260
03/16	13	Economic	System	SOLR	279	81

03/16	13	Economic	System	WIND	0	
03/16	13	SelfSchCut	Local	SOLR	12	11
03/16	14	Economic	Local	SOLR	2897	3451
03/16	14	Economic	Local	WIND	216	269
03/16	14	Economic	System	SOLR	359	274
03/16	14	Economic	System	WIND	12	
03/16	14	SelfSchCut	Local	SOLR	8	4
03/16	14	SelfSchCut	Local	WIND	130	165
03/16	15	Economic	Local	SOLR	2696	3186
03/16	15	Economic	Local	WIND	130	256
03/16	15	Economic	System	SOLR	328	65
03/16	15	SelfSchCut	Local	SOLR	16	4
03/16	15	SelfSchCut	Local	WIND	155	132
03/16	16	Economic	Local	SOLR	1446	2245
03/16	16	Economic	Local	WIND	11	14
03/16	16	Economic	System	SOLR	575	514
03/16	16	Economic	System	WIND	2	
03/16	16	SelfSchCut	Local	SOLR	20	32
03/16	16	SelfSchCut	Local	WIND	163	137
03/16	17	Economic	Local	SOLR	451	871
03/16	17	Economic	Local	WIND	10	12
03/16	17	Economic	System	SOLR	2113	2095
03/16	17	Economic	System	WIND	19	116
03/16	17	SelfSchCut	Local	SOLR	20	20
03/16	17	SelfSchCut	Local	WIND	188	198
03/16	18	Economic	Local	SOLR	273	1551
03/16	18	Economic	Local	WIND	10	19
03/16	18	Economic	System	SOLR	210	
03/16	18	Economic	System	WIND	3	
03/16	18	SelfSchCut	Local	SOLR	4	12
03/16	18	SelfSchCut	Local	WIND	191	156
03/16	19	Economic	Local	SOLR	5	17
03/16	19	Economic	Local	WIND	6	6
03/16	19	SelfSchCut	Local	SOLR	1	2

03/16	19	SelfSchCut	Local	WIND	163	192
03/16	20	Economic	Local	WIND	6	7
03/16	20	SelfSchCut	Local	WIND	147	208
03/16	21	Economic	Local	WIND	4	5
03/16	21	SelfSchCut	Local	WIND	46	64
03/16	22	Economic	Local	WIND	5	4
03/16	22	SelfSchCut	Local	WIND	44	76
03/16	23	Economic	Local	WIND	4	4
03/16	23	SelfSchCut	Local	WIND	27	93
03/16	24	Economic	Local	WIND	2	10
03/16	24	SelfSchCut	Local	WIND	4	23

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](mailto:ShortTermForecasting@caiso.com).