

Wind and Solar Curtailment March 25, 2023

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.

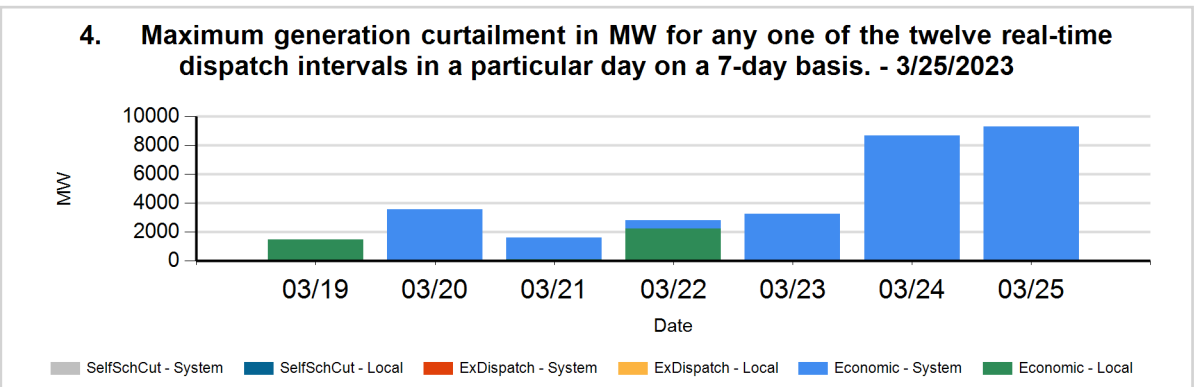
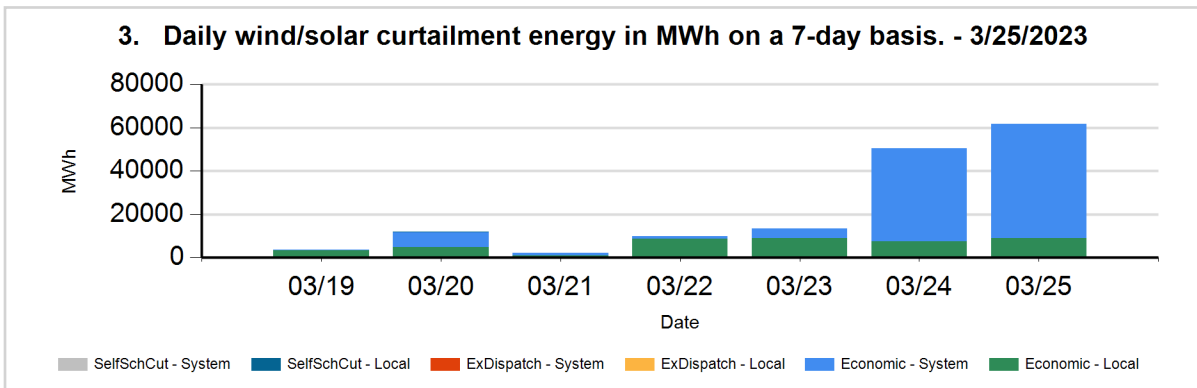
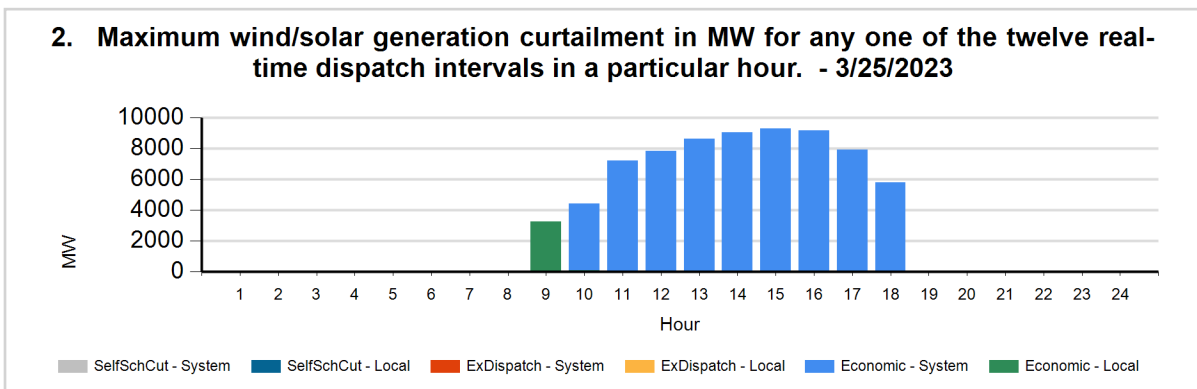
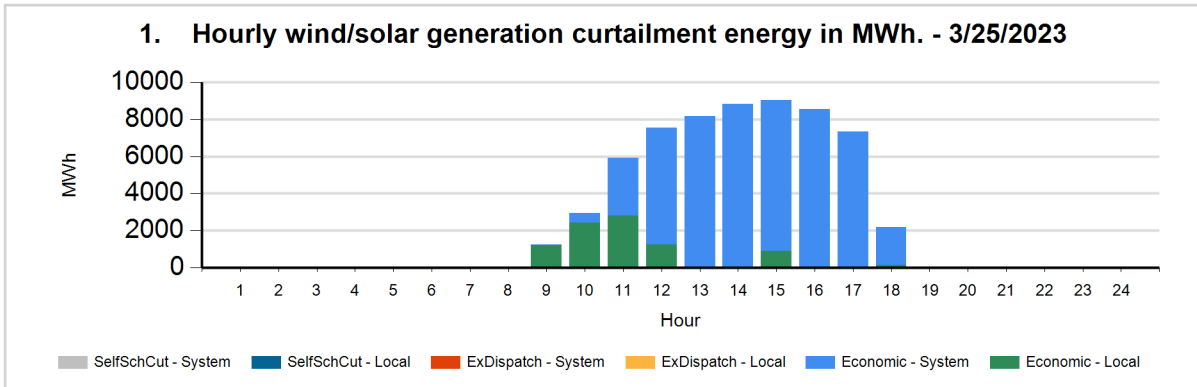
¹Only wind and solar resources can be reported in this manner because these resources have a forecast. Curtailment is defined as the difference between actual production and the forecast when actual production is less than the forecast.

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

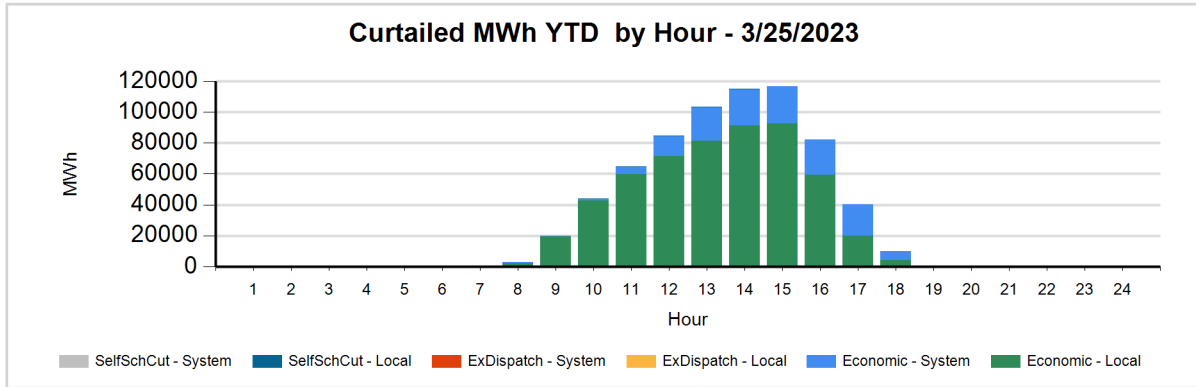
³Congestion occurs when available, least-cost energy cannot be delivered to some loads because transmission facilities do not have sufficient capacity to deliver the energy.

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

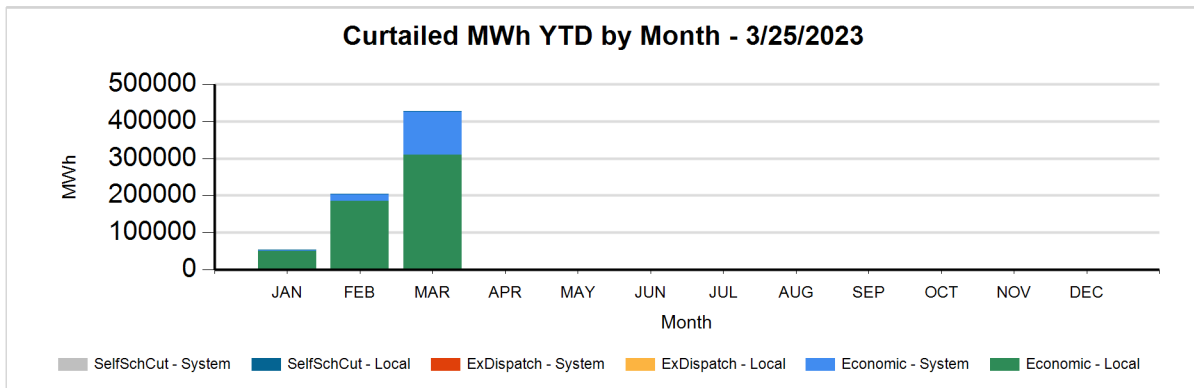
The following charts show the daily and 7-day wind and solar curtailment by category, if any.



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 - 3/25/2023
LocalEconomic	544,613
LocalSelfSchCut	12
SystemEconomic	140,360
TOTAL	684,985

Data used to produce hourly chart

DATE	HOUR	CURT TYPE	REASON	FUEL TYPE	CURTAILED MWH	CURTAILED MW
03/25	8	Economic	Local	SOLR	9	29
03/25	8	Economic	System	SOLR	0	
03/25	9	Economic	Local	SOLR	1078	2879
03/25	9	Economic	Local	WIND	157	356
03/25	9	Economic	System	SOLR	6	
03/25	10	Economic	Local	SOLR	2181	99
03/25	10	Economic	Local	WIND	224	
03/25	10	Economic	System	SOLR	529	4104
03/25	10	Economic	System	WIND	21	208
03/25	11	Economic	Local	SOLR	2640	53
03/25	11	Economic	Local	WIND	143	
03/25	11	Economic	System	SOLR	2991	6844
03/25	11	Economic	System	WIND	148	311
03/25	12	Economic	Local	SOLR	1195	15
03/25	12	Economic	Local	WIND	59	
03/25	12	Economic	System	SOLR	5959	7382
03/25	12	Economic	System	WIND	314	452
03/25	13	Economic	Local	SOLR	15	15
03/25	13	Economic	System	SOLR	7654	8099
03/25	13	Economic	System	WIND	498	505
03/25	14	Economic	Local	SOLR	15	15
03/25	14	Economic	System	SOLR	8229	8437
03/25	14	Economic	System	WIND	596	584
03/25	15	Economic	Local	SOLR	828	
03/25	15	Economic	Local	WIND	62	
03/25	15	Economic	System	SOLR	7459	8522
03/25	15	Economic	System	WIND	675	762
03/25	16	Economic	System	SOLR	7858	8491
03/25	16	Economic	System	WIND	691	670
03/25	17	Economic	System	SOLR	6699	7284
03/25	17	Economic	System	WIND	646	657

03/25	18	Economic	Local	SOLR	126	
03/25	18	Economic	Local	WIND	25	
03/25	18	Economic	System	SOLR	1740	5193
03/25	18	Economic	System	WIND	299	604
03/25	19	Economic	Local	SOLR	0	2
03/25	19	Economic	System	SOLR	0	5

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.