

Wind and Solar Curtailment June 04, 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.

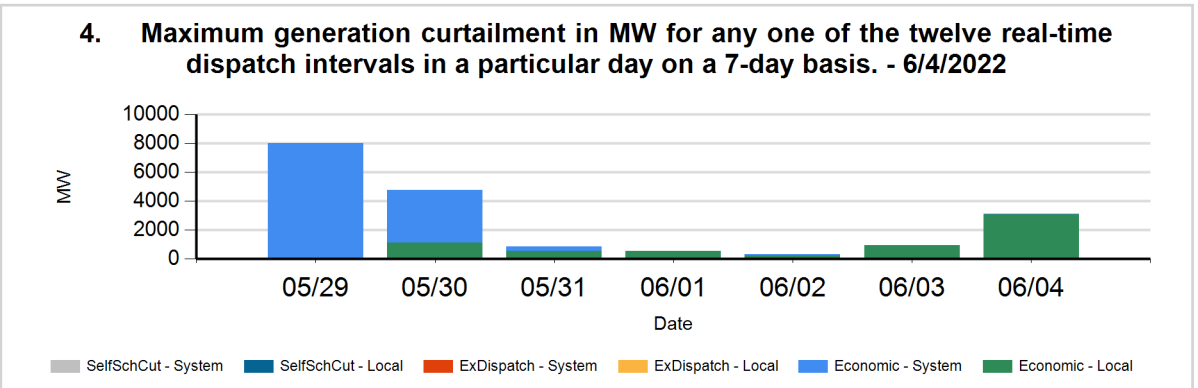
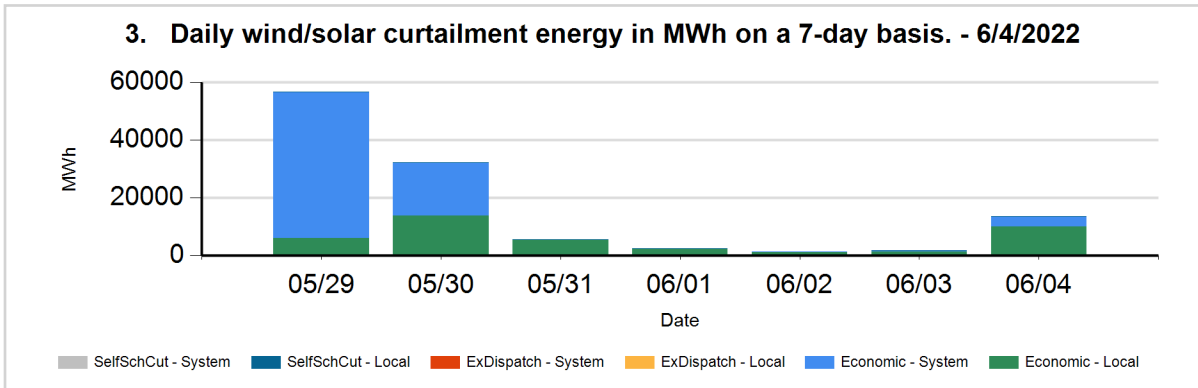
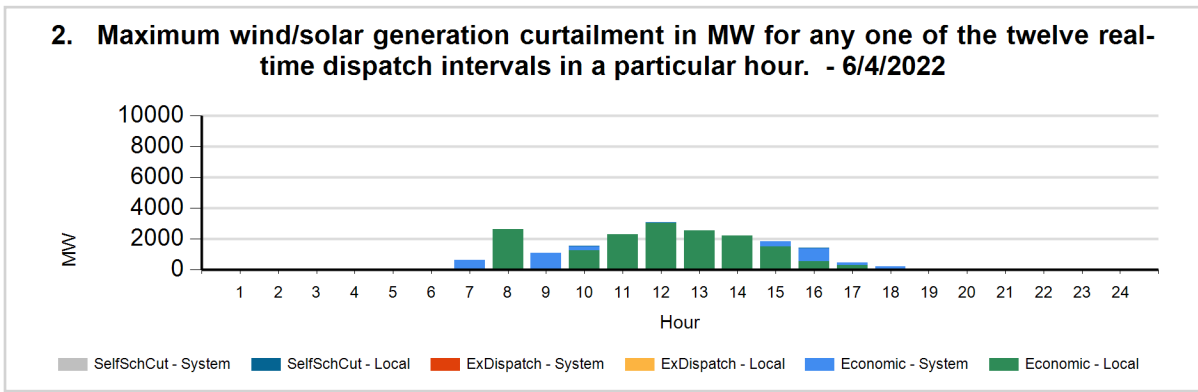
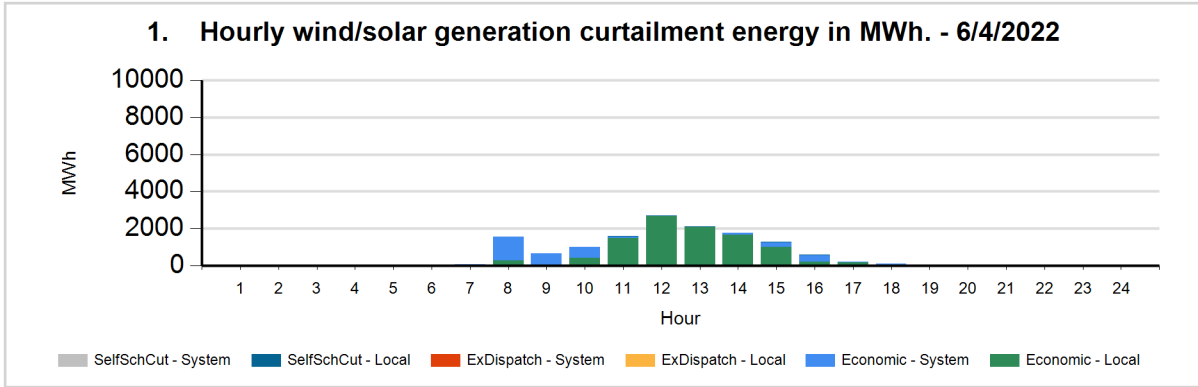
²The Renewables Watch report provides daily actual renewable production within the ISO grid. It is available at: <http://www.caiso.com/green/renewableswatch.html>.

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.

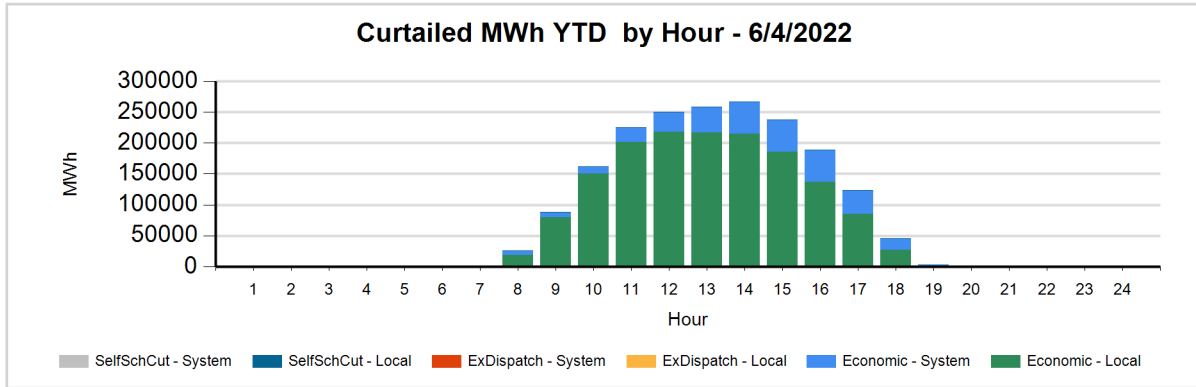
⁴For more information on oversupply conditions, please see:

https://www.caiso.com/Documents/FlexibleResourcesHelpRenewables_FastFacts.pdf

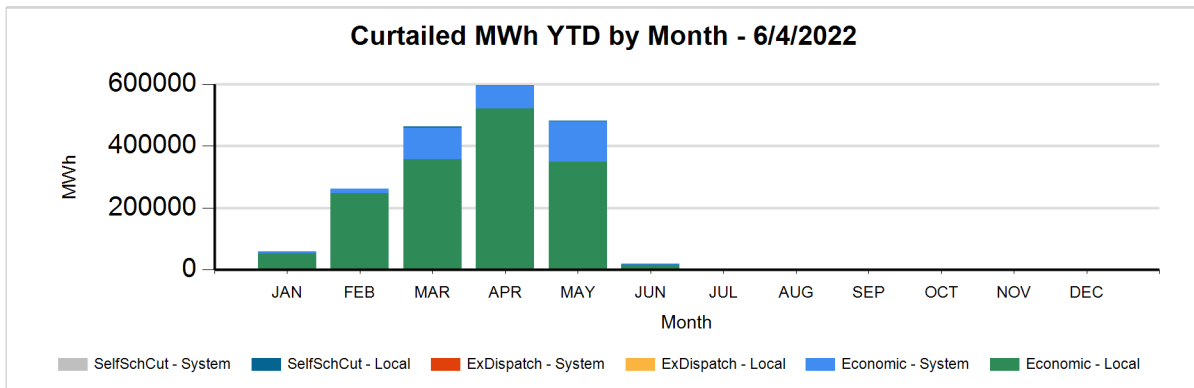
The following charts show the daily and 7-day wind and solar curtailment by category, if any.



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 - 6/4/2022
LocalEconomic	1,538,174
LocalSelfSchCut	4,924
SystemEconomic	336,860
TOTAL	1,879,957

Data used to produce hourly chart

DATE	HOUR	CURT TYPE	REASON	FUEL TYPE	CURTAILED MWH	CURTAILED MW
06/04	7	Economic	System	SOLR	49	567
06/04	7	Economic	System	WIND	8	69
06/04	8	Economic	Local	SOLR	279	2564
06/04	8	Economic	Local	WIND	11	67
06/04	8	Economic	System	SOLR	1213	
06/04	8	Economic	System	WIND	59	
06/04	9	Economic	Local	SOLR	11	25
06/04	9	Economic	System	SOLR	553	967
06/04	9	Economic	System	WIND	83	104
06/04	10	Economic	Local	SOLR	387	1250
06/04	10	Economic	Local	WIND	9	13
06/04	10	Economic	System	SOLR	517	236
06/04	10	Economic	System	WIND	70	41
06/04	10	SelfSchCut	Local	SOLR	0	2
06/04	11	Economic	Local	SOLR	1476	2284
06/04	11	Economic	Local	WIND	20	14
06/04	11	Economic	System	SOLR	77	
06/04	11	Economic	System	WIND	18	
06/04	11	SelfSchCut	Local	SOLR	1	
06/04	12	Economic	Local	SOLR	2656	3066
06/04	12	Economic	Local	WIND	22	25
06/04	12	Economic	System	SOLR	26	10
06/04	12	SelfSchCut	Local	SOLR	2	
06/04	13	Economic	Local	SOLR	2061	2540
06/04	13	Economic	Local	WIND	21	21
06/04	13	Economic	System	SOLR	18	
06/04	13	Economic	System	WIND	1	
06/04	13	SelfSchCut	Local	SOLR	4	
06/04	14	Economic	Local	SOLR	1652	2171
06/04	14	Economic	Local	WIND	22	26
06/04	14	Economic	System	SOLR	68	

06/04	14	Economic	System	WIND	9	
06/04	15	Economic	Local	SOLR	984	1478
06/04	15	Economic	Local	WIND	11	27
06/04	15	Economic	System	SOLR	280	338
06/04	15	Economic	System	WIND	6	7
06/04	15	SelfSchCut	Local	SOLR	2	
06/04	16	Economic	Local	SOLR	205	534
06/04	16	Economic	Local	WIND	6	17
06/04	16	Economic	System	SOLR	373	850
06/04	16	Economic	System	WIND	10	26
06/04	16	SelfSchCut	Local	SOLR	2	6
06/04	17	Economic	Local	SOLR	152	301
06/04	17	Economic	System	SOLR	56	156
06/04	18	Economic	Local	SOLR	42	46
06/04	18	Economic	System	SOLR	46	158
06/04	19	Economic	Local	SOLR	5	9

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.