

Wind and Solar Curtailment June 05, 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.

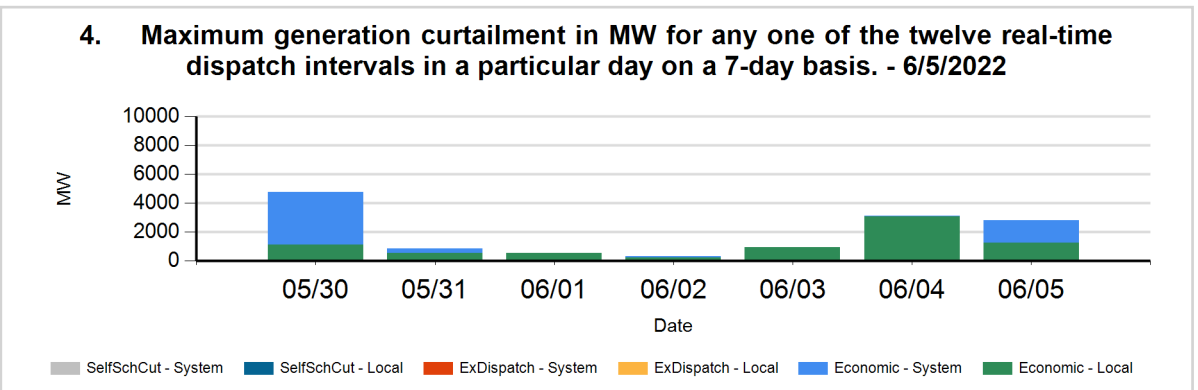
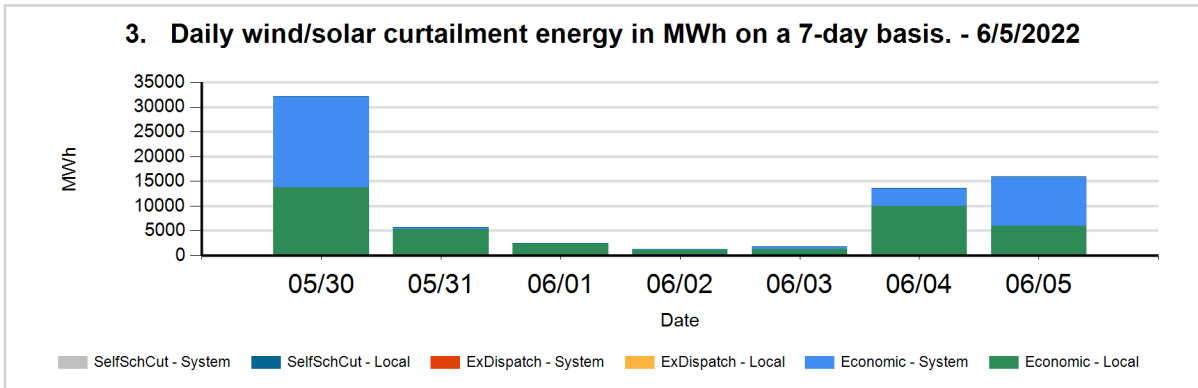
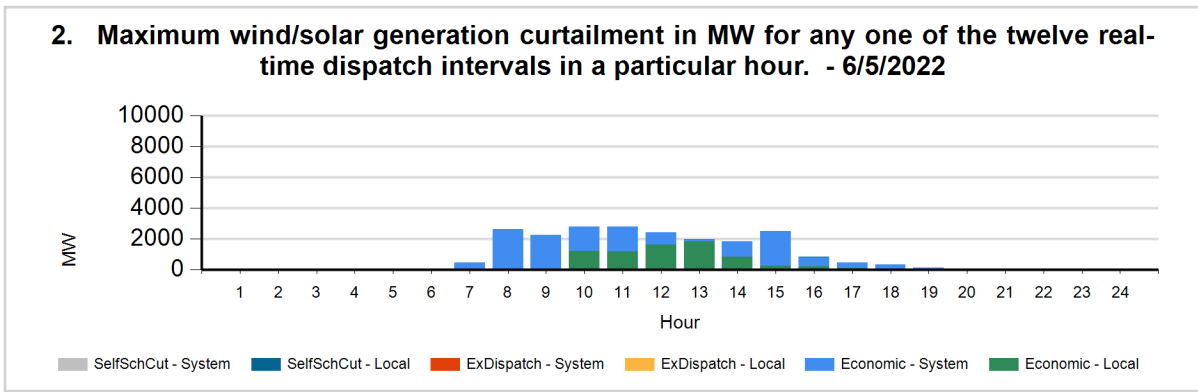
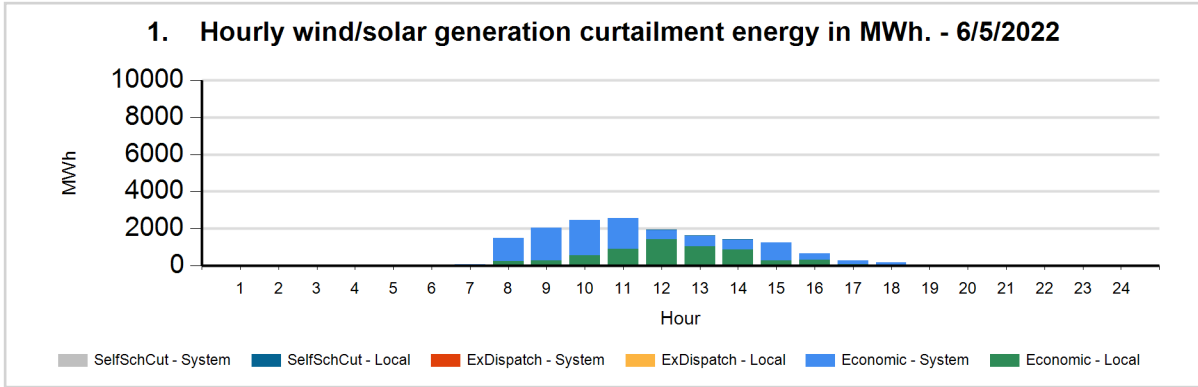
²The Renewables Watch report provides daily actual renewable production within the ISO grid. It is available at: <http://www.caiso.com/green/renewableswatch.html>.

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.

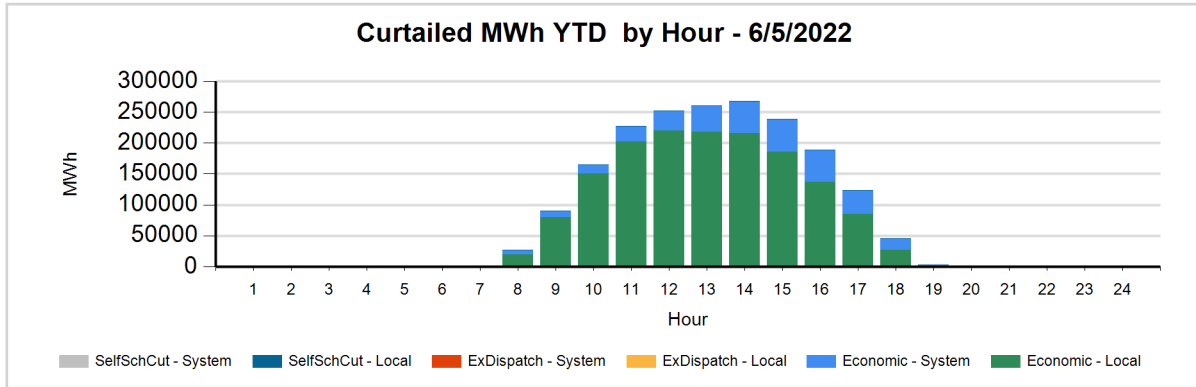
⁴For more information on oversupply conditions, please see:

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

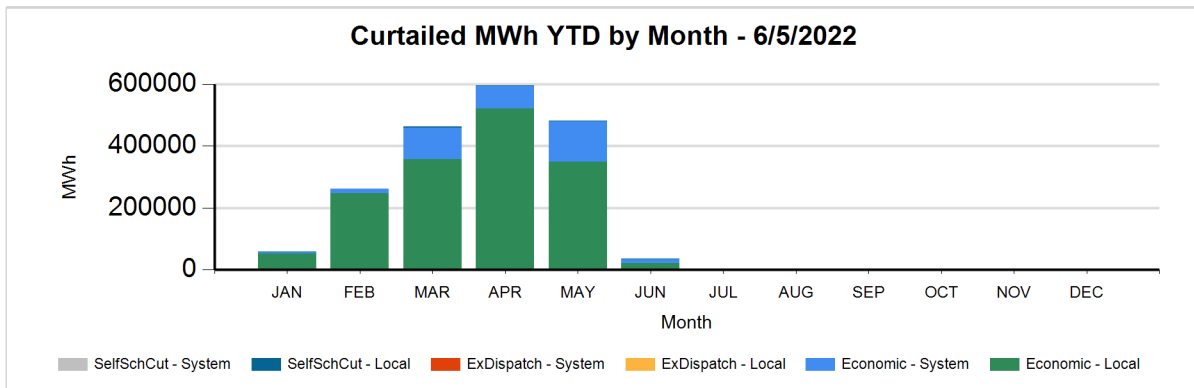
The following charts show the daily and 7-day wind and solar curtailment by category, if any.



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 - 6/5/2022
LocalEconomic	1,544,149
LocalSelfSchCut	4,931
SystemEconomic	346,779
TOTAL	1,895,859

Data used to produce hourly chart

DATE	HOUR	CURT TYPE	REASON	FUEL TYPE	CURTAILED MWH	CURTAILED MW
06/05	7	Economic	System	SOLR	60	459
06/05	8	Economic	Local	SOLR	235	12
06/05	8	Economic	Local	WIND	5	
06/05	8	Economic	System	SOLR	1230	2576
06/05	8	Economic	System	WIND	15	28
06/05	9	Economic	Local	SOLR	264	13
06/05	9	Economic	Local	WIND	4	
06/05	9	Economic	System	SOLR	1744	2220
06/05	9	Economic	System	WIND	27	30
06/05	10	Economic	Local	SOLR	556	1188
06/05	10	Economic	Local	WIND	10	31
06/05	10	Economic	System	SOLR	1853	1536
06/05	10	Economic	System	WIND	42	29
06/05	11	Economic	Local	SOLR	884	1141
06/05	11	Economic	Local	WIND	21	30
06/05	11	Economic	System	SOLR	1611	1587
06/05	11	Economic	System	WIND	28	17
06/05	11	SelfSchCut	Local	SOLR	0	
06/05	12	Economic	Local	SOLR	1390	1616
06/05	12	Economic	Local	WIND	26	27
06/05	12	Economic	System	SOLR	478	745
06/05	12	Economic	System	WIND	29	26
06/05	12	SelfSchCut	Local	SOLR	2	
06/05	13	Economic	Local	SOLR	1006	1827
06/05	13	Economic	Local	WIND	18	24
06/05	13	Economic	System	SOLR	594	106
06/05	13	Economic	System	WIND	17	
06/05	13	SelfSchCut	Local	SOLR	3	10
06/05	14	Economic	Local	SOLR	860	843
06/05	14	Economic	Local	WIND	11	2
06/05	14	Economic	System	SOLR	529	973

06/05	14	Economic	System	WIND	16	10
06/05	14	SelfSchCut	Local	SOLR	1	
06/05	15	Economic	Local	SOLR	282	238
06/05	15	Economic	System	SOLR	936	2261
06/05	15	Economic	System	WIND	12	11
06/05	16	Economic	Local	SOLR	306	210
06/05	16	Economic	System	SOLR	335	600
06/05	16	Economic	System	WIND	1	
06/05	16	SelfSchCut	Local	SOLR	0	1
06/05	17	Economic	Local	SOLR	65	79
06/05	17	Economic	System	SOLR	201	378
06/05	17	SelfSchCut	Local	SOLR	0	
06/05	18	Economic	Local	SOLR	26	27
06/05	18	Economic	System	SOLR	131	296
06/05	19	Economic	Local	SOLR	7	22
06/05	19	Economic	System	SOLR	22	91
06/05	19	Economic	System	WIND	5	
06/05	20	Economic	System	WIND	2	18

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.