

Wind and Solar Curtailment June 20, 2024

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.

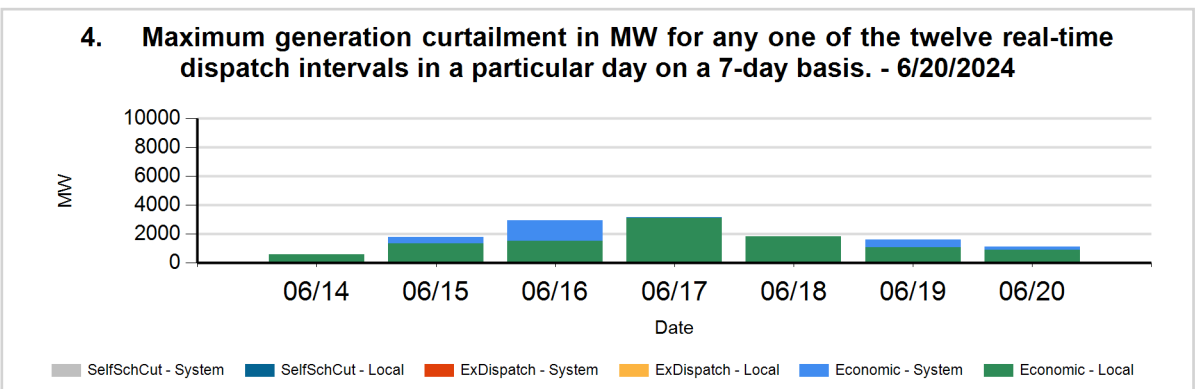
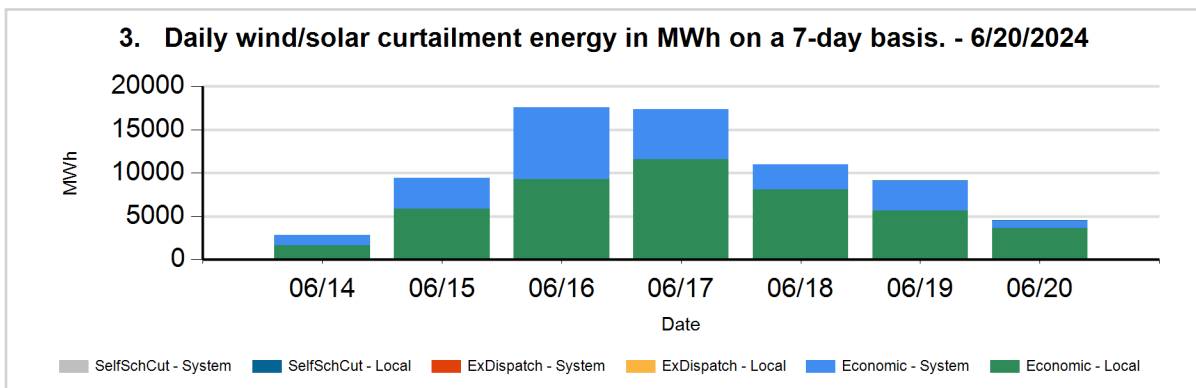
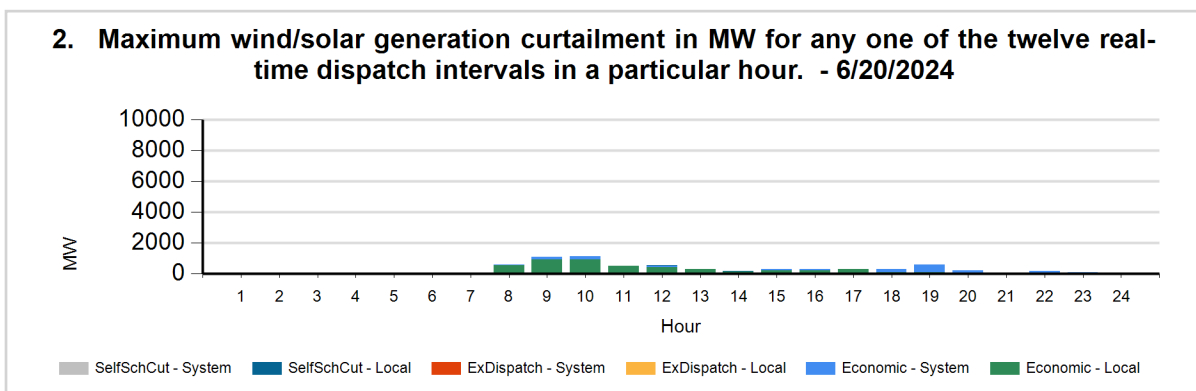
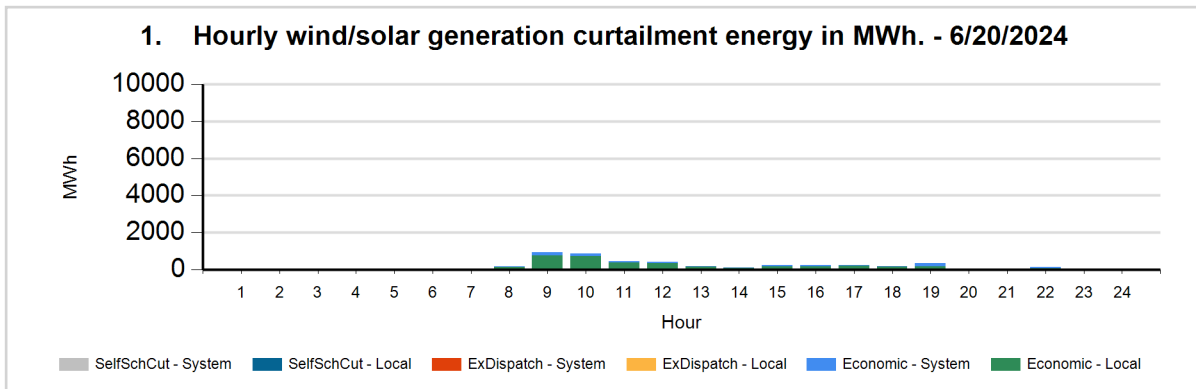
¹Only wind and solar resources can be reported in this manner because these resources have a forecast. Curtailment is defined as the difference between actual production and the forecast when actual production is less than the forecast.

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

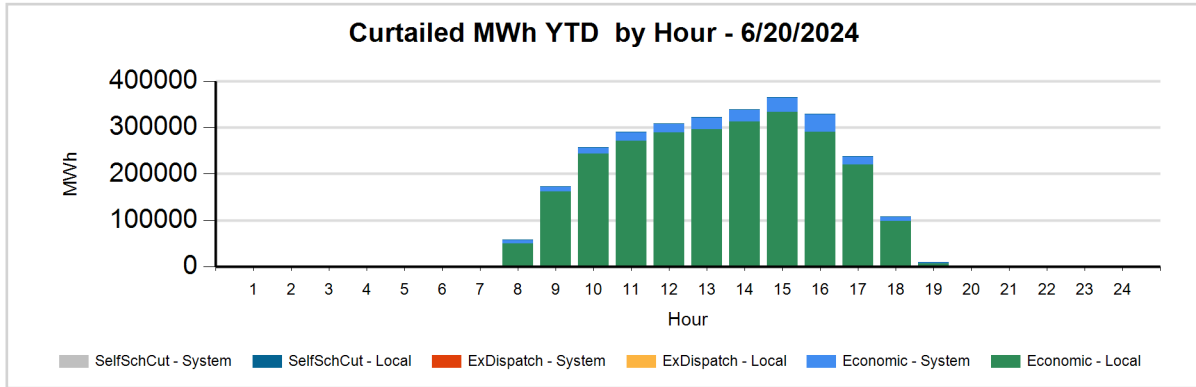
³Congestion occurs when available, least-cost energy cannot be delivered to some loads because transmission facilities do not have sufficient capacity to deliver the energy.

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

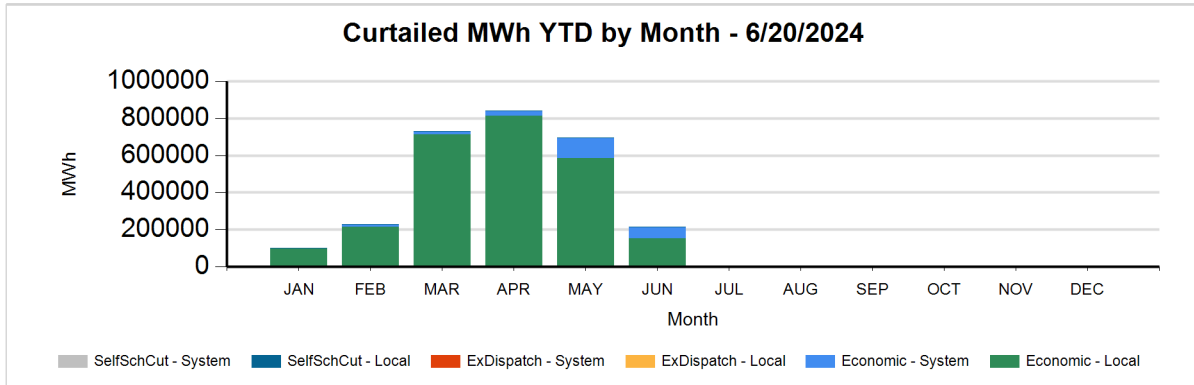
The following charts show the daily and 7-day wind and solar curtailment by category, if any.



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 - 6/20/2024
LocalEconomic	2,578,485
LocalSelfSchCut	1,580
SystemEconomic	227,869
TOTAL	2,807,935

Data used to produce hourly chart

DATE	HOUR	CURT TYPE	REASON	FUEL TYPE	CURTAILED MWH	CURTAILED MW
06/20	7	Economic	Local	SOLR	1	9
06/20	7	Economic	System	SOLR	1	
06/20	8	Economic	Local	SOLR	164	537
06/20	8	Economic	System	SOLR	9	33
06/20	9	Economic	Local	SOLR	760	918
06/20	9	Economic	Local	WIND	5	
06/20	9	Economic	System	SOLR	98	112
06/20	9	Economic	System	WIND	58	43
06/20	10	Economic	Local	SOLR	730	891
06/20	10	Economic	Local	WIND	5	4
06/20	10	Economic	System	SOLR	93	172
06/20	10	Economic	System	WIND	18	38
06/20	11	Economic	Local	SOLR	388	511
06/20	11	Economic	Local	WIND	2	5
06/20	11	Economic	System	SOLR	66	
06/20	11	Economic	System	WIND	3	
06/20	12	Economic	Local	SOLR	332	401
06/20	12	Economic	Local	WIND	1	
06/20	12	Economic	System	SOLR	86	123
06/20	12	Economic	System	WIND	2	2
06/20	12	SelfSchCut	Local	SOLR	0	3
06/20	13	Economic	Local	SOLR	179	291
06/20	13	SelfSchCut	Local	SOLR	3	
06/20	14	Economic	Local	SOLR	111	167
06/20	14	SelfSchCut	Local	SOLR	1	6
06/20	15	Economic	Local	SOLR	169	217
06/20	15	Economic	Local	WIND	5	
06/20	15	Economic	System	SOLR	3	
06/20	15	Economic	System	WIND	75	83
06/20	16	Economic	Local	SOLR	164	194
06/20	16	Economic	Local	WIND	18	

06/20	16	Economic	System	WIND	48	110
06/20	17	Economic	Local	SOLR	137	154
06/20	17	Economic	Local	WIND	72	151
06/20	17	Economic	System	WIND	28	
06/20	18	Economic	Local	SOLR	86	90
06/20	18	Economic	Local	WIND	64	
06/20	18	Economic	System	WIND	23	177
06/20	18	SelfSchCut	Local	SOLR	1	
06/20	19	Economic	Local	SOLR	86	77
06/20	19	Economic	Local	WIND	67	
06/20	19	Economic	System	SOLR	93	178
06/20	19	Economic	System	WIND	100	310
06/20	20	Economic	Local	SOLR	1	
06/20	20	Economic	System	SOLR	3	16
06/20	20	Economic	System	WIND	17	169
06/20	22	Economic	Local	WIND	67	
06/20	22	Economic	System	WIND	64	170
06/20	23	Economic	System	WIND	19	79

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.