

Wind and Solar Curtailment June 30, 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.

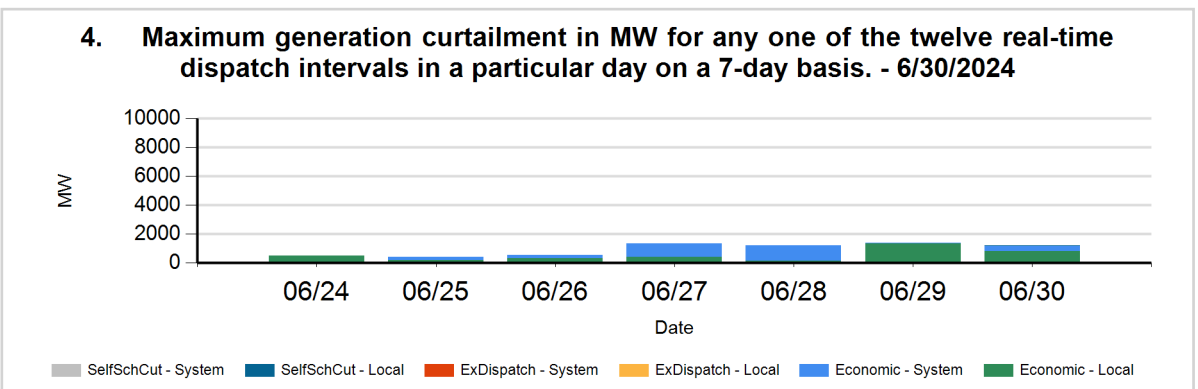
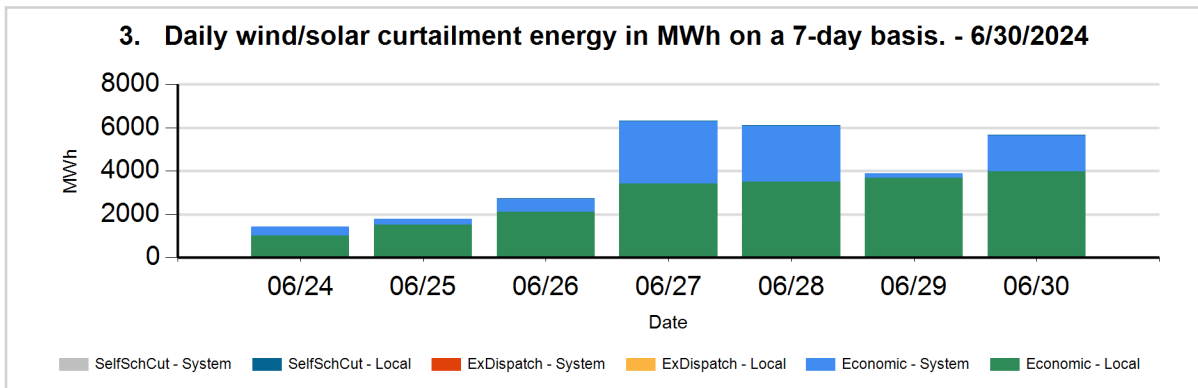
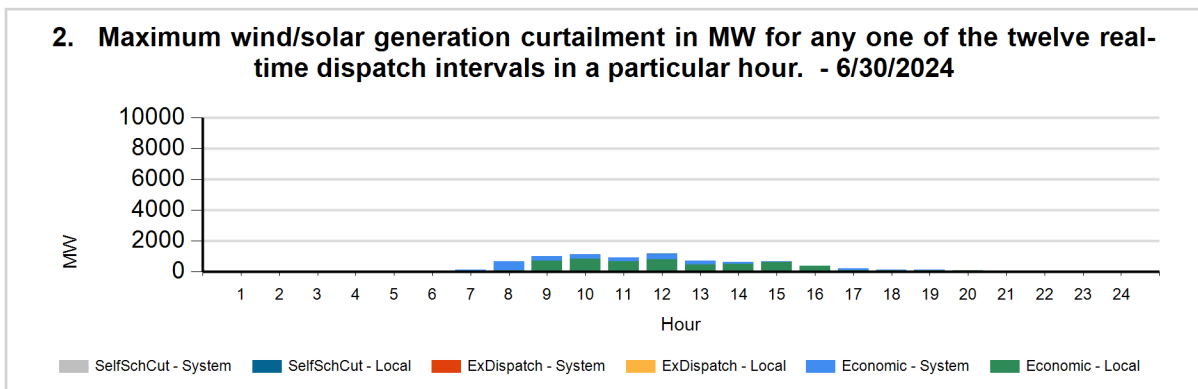
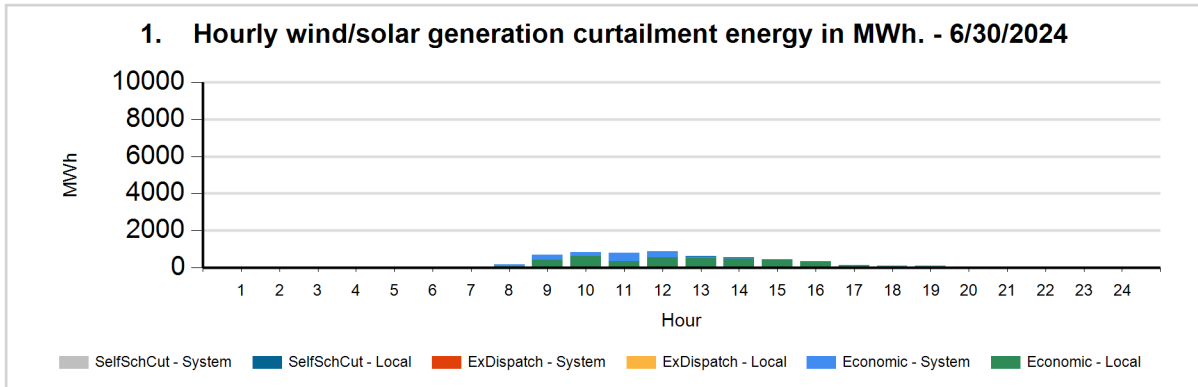
¹Only wind and solar resources can be reported in this manner because these resources have a forecast. Curtailment is defined as the difference between actual production and the forecast when actual production is less than the forecast.

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

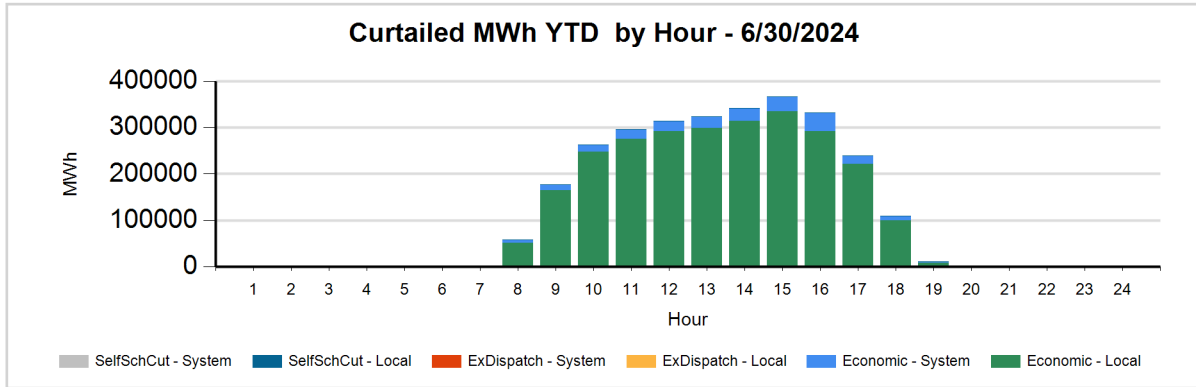
³Congestion occurs when available, least-cost energy cannot be delivered to some loads because transmission facilities do not have sufficient capacity to deliver the energy.

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

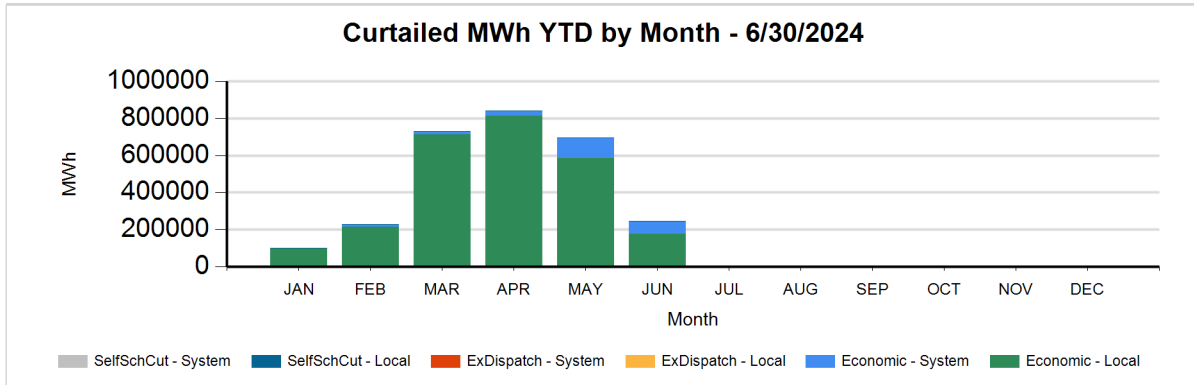
The following charts show the daily and 7-day wind and solar curtailment by category, if any.



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 - 6/30/2024
LocalEconomic	2,602,780
LocalSelfSchCut	1,605
SystemEconomic	237,375
TOTAL	2,841,761

Data used to produce hourly chart

DATE	HOUR	CURT TYPE	REASON	FUEL TYPE	CURTAILED MWH	CURTAILED MW
06/30	6	Economic	Local	SOLR	1	8
06/30	6	Economic	Local	WIND	2	21
06/30	6	Economic	System	WIND	0	4
06/30	7	Economic	Local	SOLR	4	
06/30	7	Economic	System	SOLR	3	19
06/30	7	Economic	System	WIND	7	85
06/30	8	Economic	Local	SOLR	51	94
06/30	8	Economic	System	SOLR	104	489
06/30	8	Economic	System	WIND	28	101
06/30	9	Economic	Local	SOLR	399	706
06/30	9	Economic	System	SOLR	189	179
06/30	9	Economic	System	WIND	115	116
06/30	10	Economic	Local	SOLR	604	831
06/30	10	Economic	Local	WIND	20	
06/30	10	Economic	System	SOLR	138	187
06/30	10	Economic	System	WIND	72	104
06/30	11	Economic	Local	SOLR	359	649
06/30	11	Economic	System	SOLR	343	190
06/30	11	Economic	System	WIND	88	88
06/30	11	SelfSchCut	Local	SOLR	0	
06/30	12	Economic	Local	SOLR	529	801
06/30	12	Economic	Local	WIND	7	
06/30	12	Economic	System	SOLR	249	325
06/30	12	Economic	System	WIND	59	53
06/30	12	SelfSchCut	Local	SOLR	1	3
06/30	13	Economic	Local	SOLR	479	466
06/30	13	Economic	Local	WIND	21	
06/30	13	Economic	System	SOLR	62	164
06/30	13	Economic	System	WIND	45	64
06/30	13	SelfSchCut	Local	SOLR	1	
06/30	14	Economic	Local	SOLR	450	496

06/30	14	Economic	Local	WIND	38	
06/30	14	Economic	System	SOLR	17	42
06/30	14	Economic	System	WIND	29	65
06/30	14	SelfSchCut	Local	SOLR	2	
06/30	15	Economic	Local	SOLR	400	606
06/30	15	Economic	Local	WIND	13	
06/30	15	Economic	System	SOLR	33	60
06/30	15	Economic	System	WIND	12	
06/30	15	SelfSchCut	Local	SOLR	0	
06/30	16	Economic	Local	SOLR	309	369
06/30	16	Economic	System	SOLR	18	
06/30	17	Economic	Local	SOLR	94	93
06/30	17	Economic	System	SOLR	39	94
06/30	18	Economic	Local	SOLR	66	82
06/30	18	Economic	System	SOLR	29	49
06/30	19	Economic	Local	SOLR	80	59
06/30	19	Economic	System	SOLR	13	77
06/30	20	Economic	Local	SOLR	35	67
06/30	20	Economic	System	SOLR	1	
06/30	21	Economic	Local	SOLR	0	3

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.