

Wind and Solar Curtailment June 16, 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.

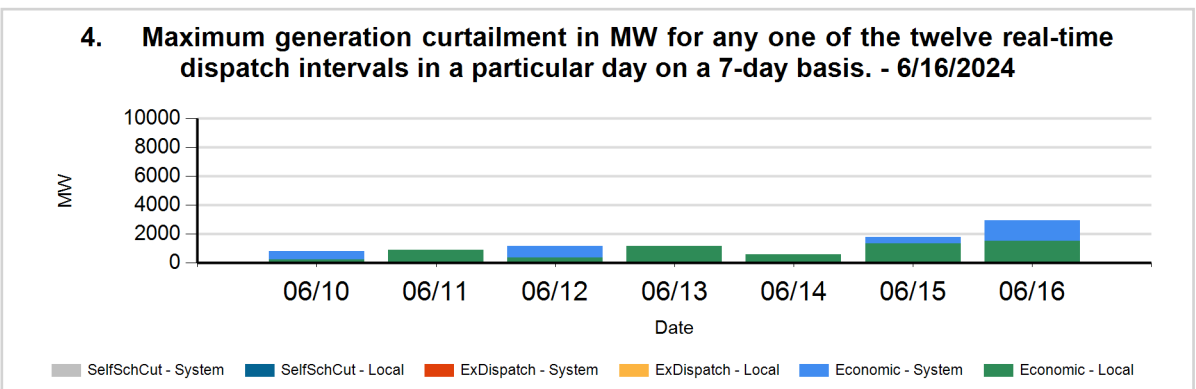
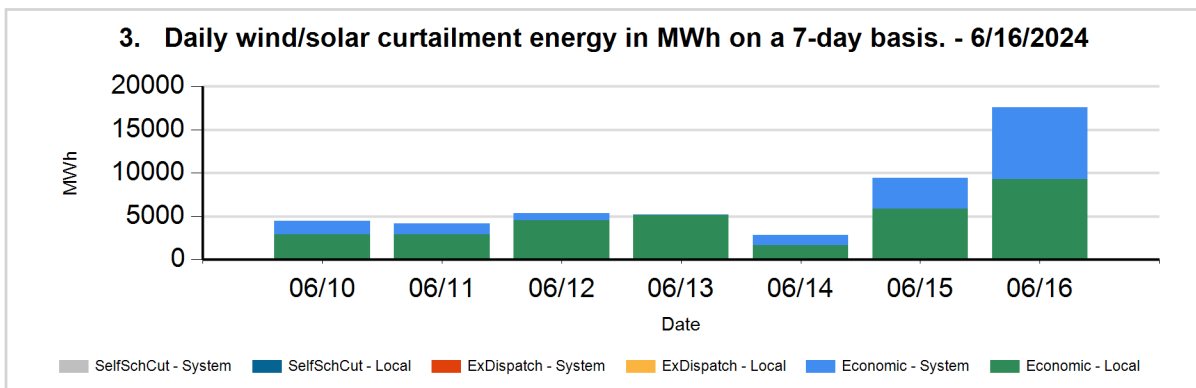
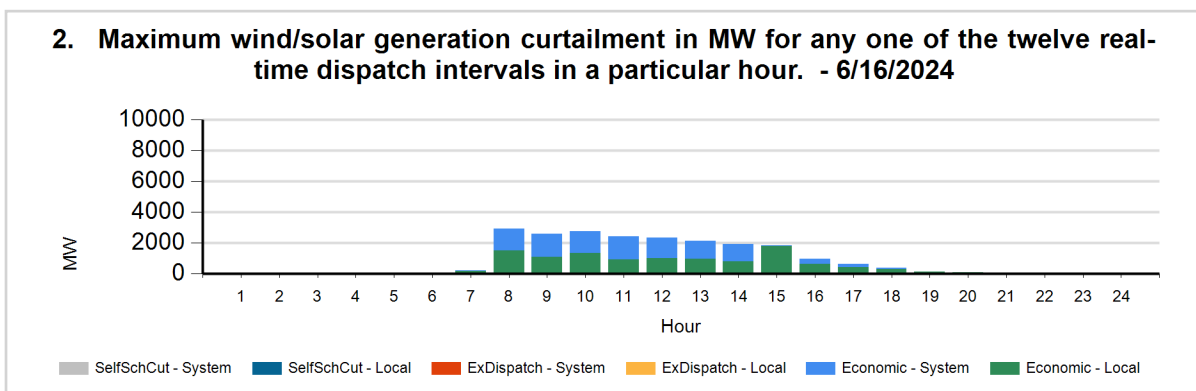
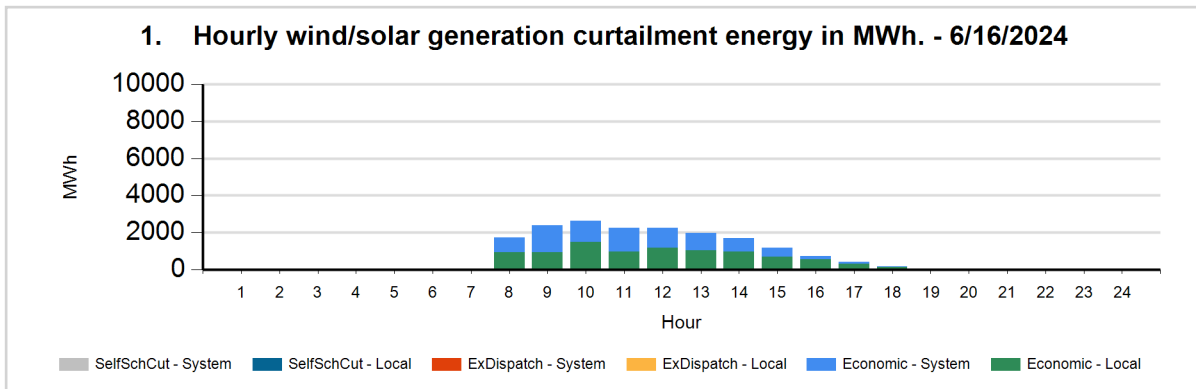
¹Only wind and solar resources can be reported in this manner because these resources have a forecast. Curtailment is defined as the difference between actual production and the forecast when actual production is less than the forecast.

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

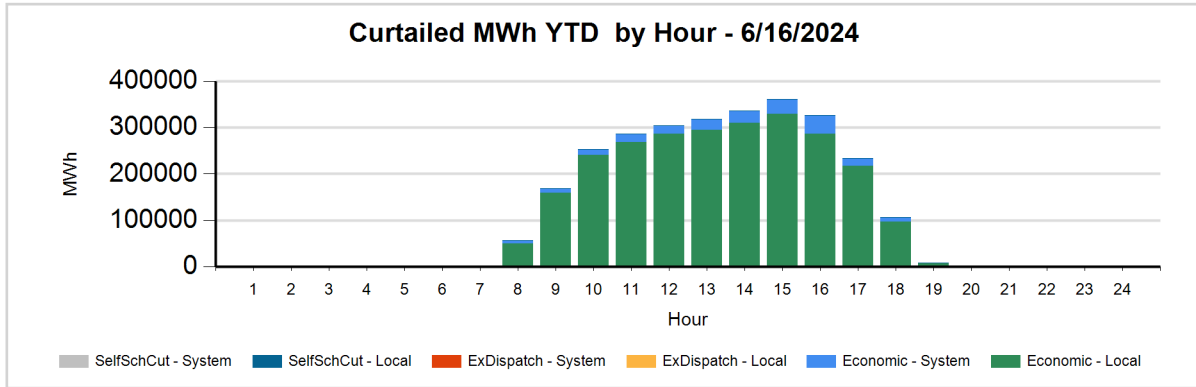
³Congestion occurs when available, least-cost energy cannot be delivered to some loads because transmission facilities do not have sufficient capacity to deliver the energy.

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

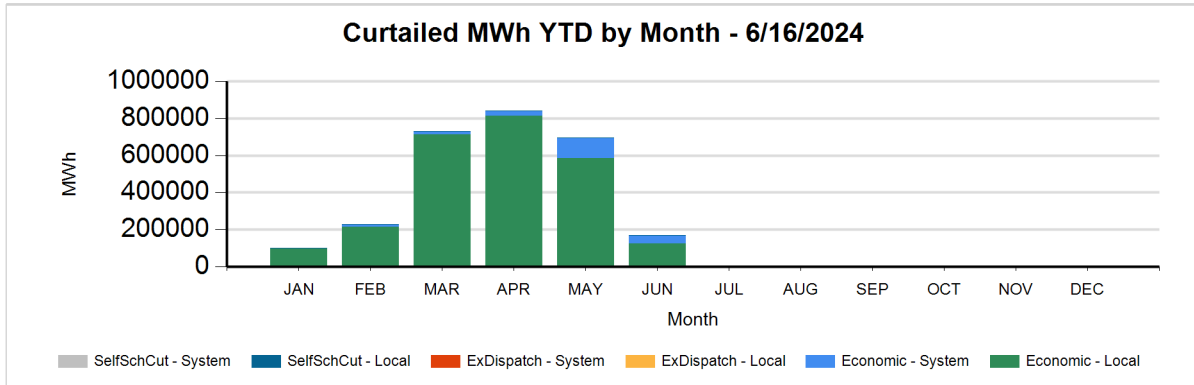
The following charts show the daily and 7-day wind and solar curtailment by category, if any.



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 - 6/16/2024
LocalEconomic	2,549,608
LocalSelfSchCut	1,572
SystemEconomic	214,803
TOTAL	2,765,983

Data used to produce hourly chart

DATE	HOUR	CURT TYPE	REASON	FUEL TYPE	CURTAILED MWH	CURTAILED MW
06/16	2	Economic	Local	WIND	7	48
06/16	7	Economic	Local	SOLR	33	157
06/16	7	Economic	System	SOLR	4	25
06/16	7	Economic	System	WIND	2	12
06/16	8	Economic	Local	SOLR	910	1507
06/16	8	Economic	Local	WIND	10	
06/16	8	Economic	System	SOLR	709	1171
06/16	8	Economic	System	WIND	91	229
06/16	9	Economic	Local	SOLR	944	1096
06/16	9	Economic	System	SOLR	1195	1246
06/16	9	Economic	System	WIND	234	231
06/16	10	Economic	Local	SOLR	1452	1348
06/16	10	Economic	Local	WIND	38	
06/16	10	Economic	System	SOLR	938	1127
06/16	10	Economic	System	WIND	195	255
06/16	11	Economic	Local	SOLR	940	897
06/16	11	Economic	Local	WIND	21	
06/16	11	Economic	System	SOLR	1068	1251
06/16	11	Economic	System	WIND	228	269
06/16	12	Economic	Local	SOLR	1119	1001
06/16	12	Economic	Local	WIND	44	
06/16	12	Economic	System	SOLR	871	1045
06/16	12	Economic	System	WIND	209	274
06/16	13	Economic	Local	SOLR	1017	937
06/16	13	Economic	Local	WIND	20	
06/16	13	Economic	System	SOLR	836	1045
06/16	13	Economic	System	WIND	109	131
06/16	14	Economic	Local	SOLR	926	793
06/16	14	Economic	Local	WIND	30	
06/16	14	Economic	System	SOLR	641	991
06/16	14	Economic	System	WIND	105	135

06/16	15	Economic	Local	SOLR	664	1706
06/16	15	Economic	Local	WIND	31	124
06/16	15	Economic	System	SOLR	409	
06/16	15	Economic	System	WIND	86	13
06/16	16	Economic	Local	SOLR	543	629
06/16	16	Economic	System	SOLR	190	320
06/16	16	Economic	System	WIND	5	13
06/16	17	Economic	Local	SOLR	319	397
06/16	17	Economic	System	SOLR	86	224
06/16	17	Economic	System	WIND	16	14
06/16	18	Economic	Local	SOLR	141	304
06/16	18	Economic	Local	WIND	1	
06/16	18	Economic	System	SOLR	9	32
06/16	18	Economic	System	WIND	6	34
06/16	19	Economic	Local	SOLR	35	120
06/16	19	Economic	System	SOLR	1	
06/16	20	Economic	Local	WIND	29	84
06/16	22	Economic	Local	WIND	2	
06/16	22	Economic	System	WIND	4	22

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.