Wind and Solar Curtailment June 07, 2024

This report is produced daily to provide a detailed accounting of the wind and solar renewable generation that was curtailed and the reasons why[1]. This report should be read in the context of the Renewables Watch report for a more complete understanding of both renewable curtailment and generation[2].

Wind and solar curtailments are grouped into the following categories:

1. Economic - Local: Market dispatch of generators with economic bids to mitigate local congestion[3].
2. Economic - System: Market dispatch of generators with economic bids to mitigate system-wide oversupply.
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.

[1]Only 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.

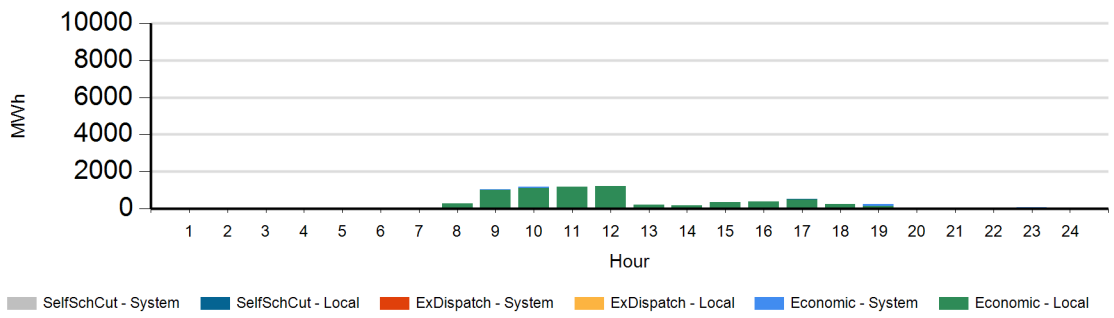
[2]The Renewables Watch report provides daily actual renewable production within the ISO grid. It is available at: http://www.caiso.com/green/renewableswatch.html.

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

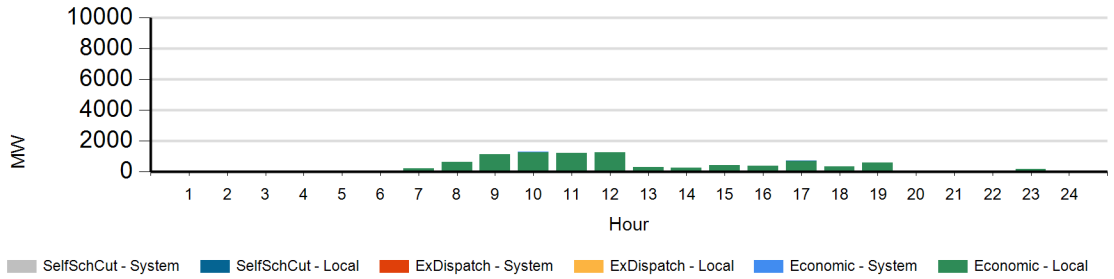
For more information on oversupply conditions, please see: https://www.caiso.com/Documents/FlexibleResourcesHelpRenewables_FastFacts.pdf

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

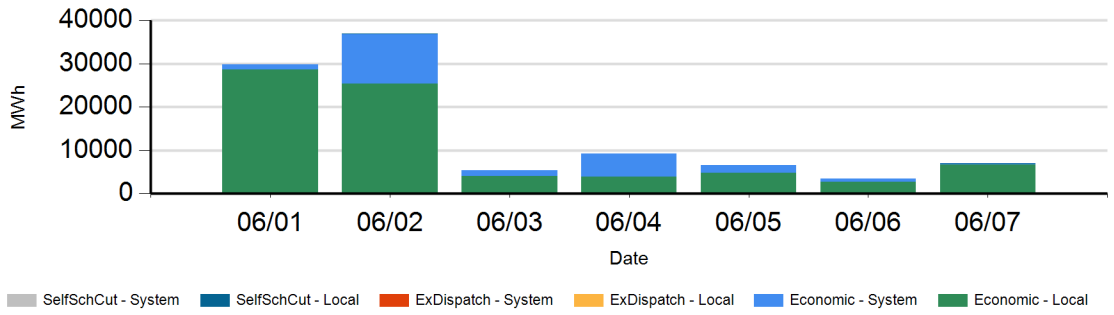
1. Hourly wind/solar generation curtailment energy in MWh. - 6/7/2024



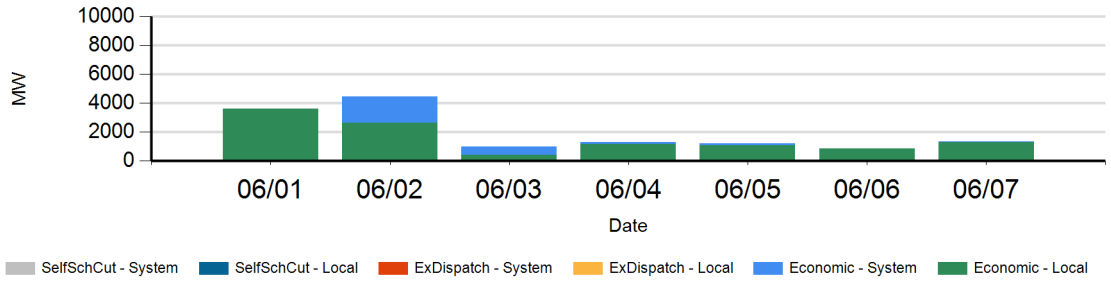
2. Maximum wind/solar generation curtailment in MW for any one of the twelve real-time dispatch intervals in a particular hour. - 6/7/2024



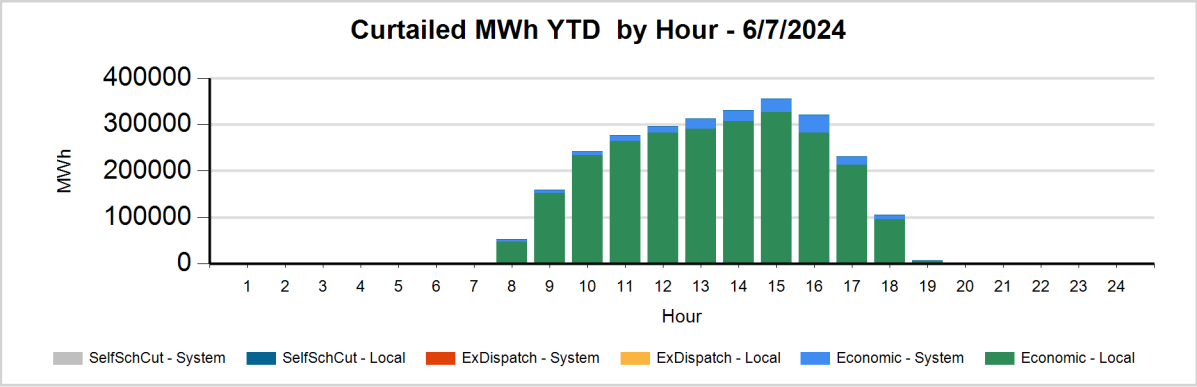
3. Daily wind/solar curtailment energy in MWh on a 7-day basis. - 6/7/2024



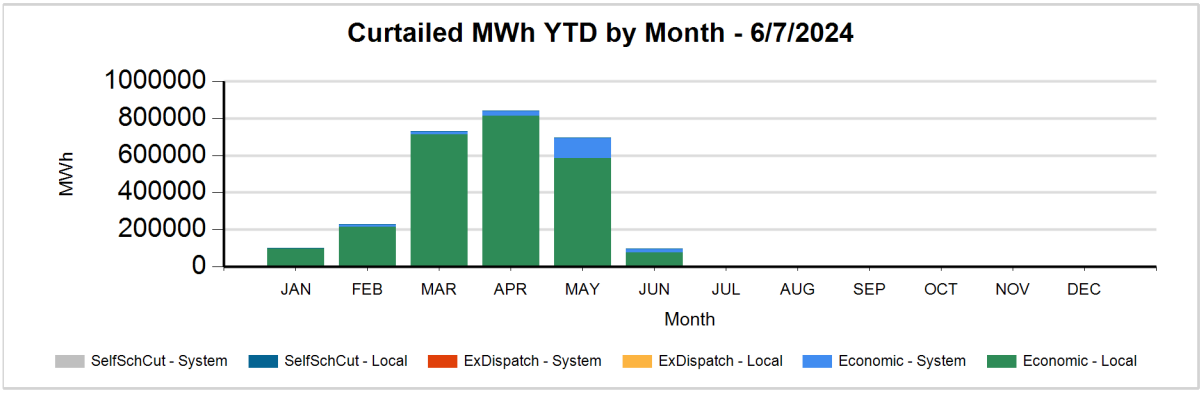
4. Maximum generation curtailment in MW for any one of the twelve real-time dispatch intervals in a particular day on a 7-day basis. - 6/7/2024



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 - 6/7/2024
LocalEconomic	2,501,990
LocalSelfSchCut	1,572
SystemEconomic	189,819
TOTAL	2,693,381

California ISO

Data used to produce hourly chart

DATE	HOUR	CURT TYPE	REASON	FUEL TYPE	CURTAILED MWH	CURTAILED MW
06/07	7	Economic	Local	SOLR	32	193
06/07	8	Economic	Local	SOLR	266	624
06/07	9	Economic	Local	SOLR	877	1032
06/07	9	Economic	Local	WIND	107	109
06/07	9	Economic	System	SOLR	51	
06/07	9	Economic	System	WIND	10	
06/07	10	Economic	Local	SOLR	1009	1160
06/07	10	Economic	Local	WIND	95	116
06/07	10	Economic	System	SOLR	64	
06/07	10	Economic	System	WIND	11	26
06/07	11	Economic	Local	SOLR	1104	1125
06/07	11	Economic	Local	WIND	81	94
06/07	12	Economic	Local	SOLR	1092	1139
06/07	12	Economic	Local	WIND	99	97
06/07	13	Economic	Local	SOLR	189	273
06/07	14	Economic	Local	SOLR	164	265
06/07	15	Economic	Local	SOLR	155	215
06/07	15	Economic	Local	WIND	186	193
06/07	16	Economic	Local	SOLR	144	177
06/07	16	Economic	Local	WIND	216	212
06/07	17	Economic	Local	SOLR	273	483
06/07	17	Economic	Local	WIND	224	229
06/07	17	SelfSchCut	Local	SOLR	1	1
06/07	18	Economic	Local	SOLR	77	90
06/07	18	Economic	Local	WIND	151	228
06/07	19	Economic	Local	SOLR	91	422
06/07	19	Economic	Local	WIND	27	161
06/07	19	Economic	System	SOLR	69	
06/07	19	Economic	System	WIND	52	
06/07	23	Economic	Local	WIND	43	161
06/07	23	Economic	System	WIND	37	

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.