Wind and Solar Curtailment May 25, 2025

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[4].
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.

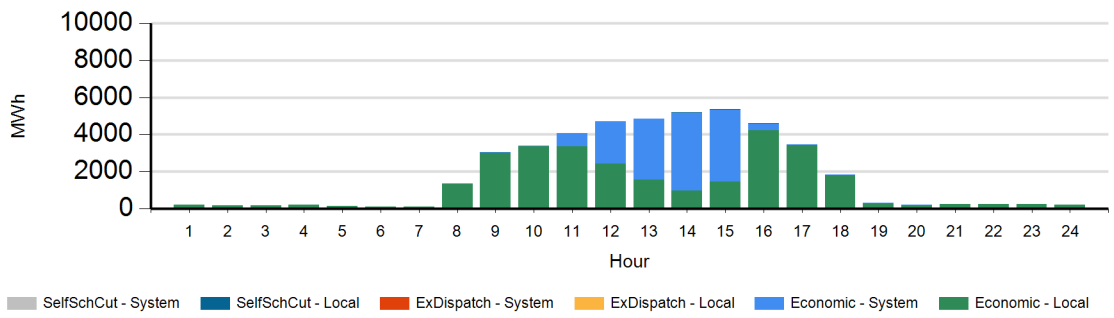
[2]The Renewables Watch report provides daily actual renewable production within the ISO grid. It is available at: http://www.caiso.com/green/renewableswatch.html.

[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.

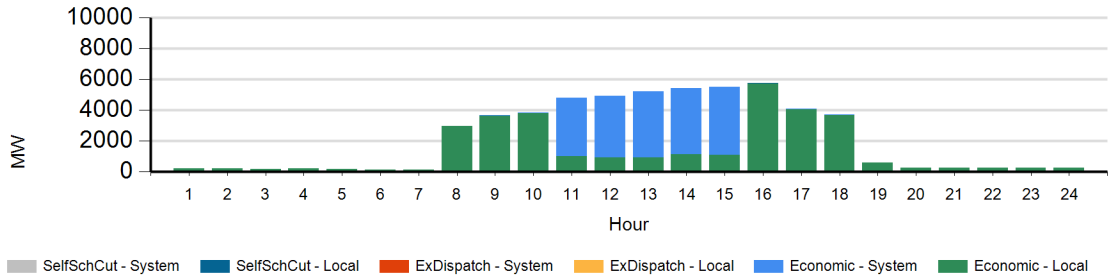
[4]For more information on oversupply conditions, please see: https://www.caiso.com/Documents/FlexibleResourcesHelpRenewables_FastFacts.pdf

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

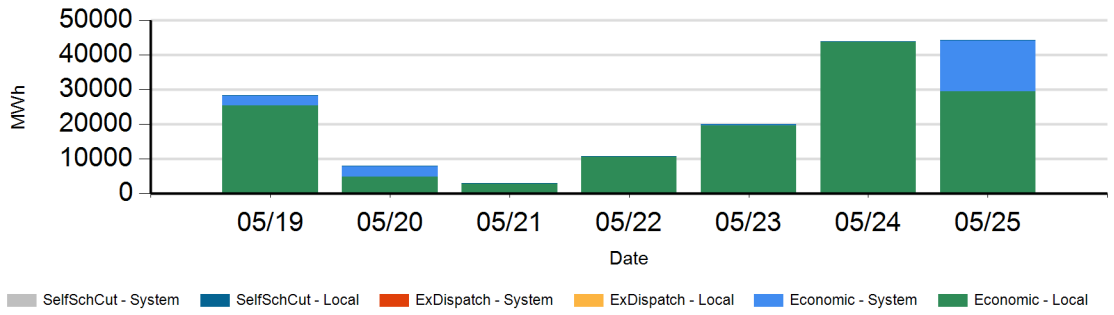
1. Hourly wind/solar generation curtailment energy in MWh. - 5/25/2025



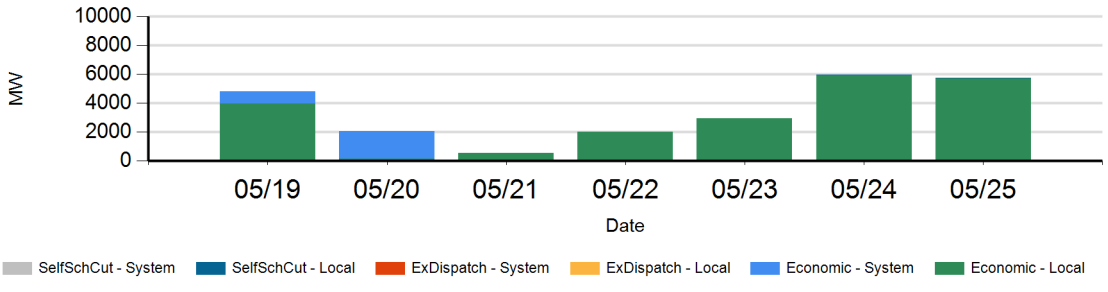
2. Maximum wind/solar generation curtailment in MW for any one of the twelve real-time dispatch intervals in a particular hour. - 5/25/2025



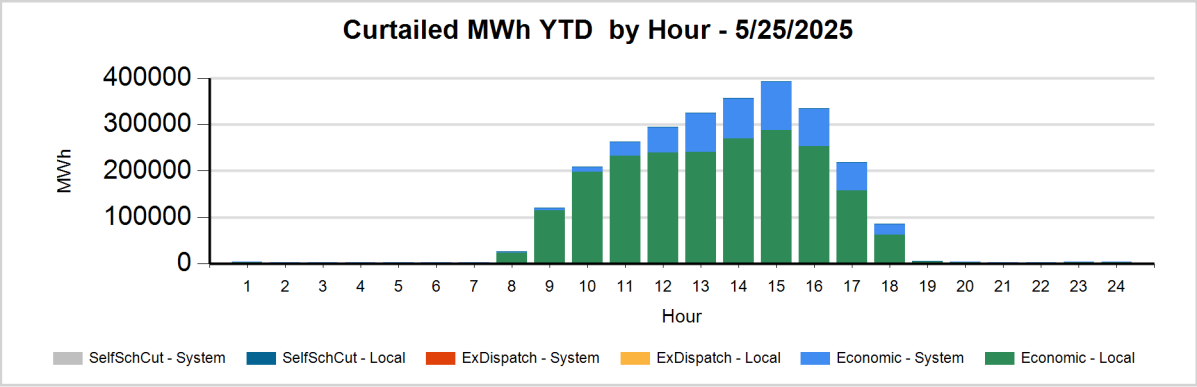
3. Daily wind/solar curtailment energy in MWh on a 7-day basis. - 5/25/2025



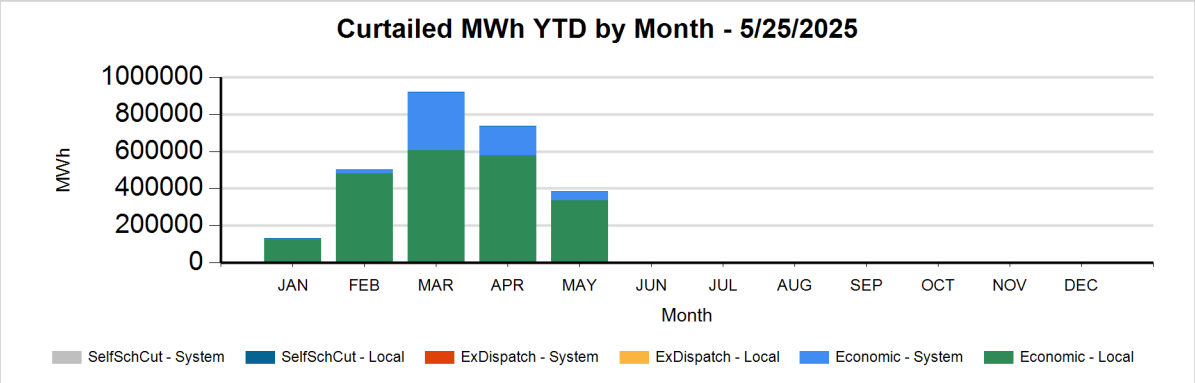
4. Maximum generation curtailment in MW for any one of the twelve real-time dispatch intervals in a particular day on a 7-day basis. - 5/25/2025



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 - 5/25/2025
LocalEconomic	2,122,646
LocalSelfSchCut	1,193
SystemEconomic	548,913
TOTAL	2,672,753

California ISO

Data used to produce hourly chart

DATE	HOUR	CURT TYPE	REASON	FUEL TYPE	CURTAILED MWH	CURTAILED MW
05/25	1	Economic	Local	WIND	197	201
05/25	2	Economic	Local	WIND	183	193
05/25	3	Economic	Local	WIND	167	179
05/25	4	Economic	Local	WIND	188	207
05/25	5	Economic	Local	WIND	139	170
05/25	6	Economic	Local	WIND	95	136
05/25	7	Economic	Local	SOLR	1	
05/25	7	Economic	Local	WIND	87	124
05/25	8	Economic	Local	SOLR	1213	2637
05/25	8	Economic	Local	WIND	129	341
05/25	9	Economic	Local	SOLR	2894	3455
05/25	9	Economic	Local	WIND	126	165
05/25	9	Economic	System	SOLR	0	2
05/25	9	Economic	System	WIND	5	32
05/25	10	Economic	Local	SOLR	3331	3759
05/25	10	Economic	Local	WIND	52	65
05/25	10	Economic	System	WIND	8	21
05/25	10	SelfSchCut	Local	SOLR	0	
05/25	11	Economic	Local	SOLR	3268	1010
05/25	11	Economic	Local	WIND	84	
05/25	11	Economic	System	SOLR	575	3478
05/25	11	Economic	System	WIND	118	319
05/25	11	SelfSchCut	Local	SOLR	2	
05/25	12	Economic	Local	SOLR	2345	907
05/25	12	Economic	Local	WIND	82	
05/25	12	Economic	System	SOLR	2061	3699
05/25	12	Economic	System	WIND	213	300
05/25	13	Economic	Local	SOLR	1497	924
05/25	13	Economic	Local	WIND	50	
05/25	13	Economic	System	SOLR	3033	3960
05/25	13	Economic	System	WIND	252	321

05/25	14	Economic	Local	SOLR	920	944
05/25	14	Economic	Local	WIND	57	164
05/25	14	Economic	System	SOLR	3882	3959
05/25	14	Economic	System	WIND	334	355
05/25	14	SelfSchCut	Local	SOLR	1	
05/25	15	Economic	Local	SOLR	1251	932
05/25	15	Economic	Local	WIND	205	131
05/25	15	Economic	System	SOLR	3574	4116
05/25	15	Economic	System	WIND	318	333
05/25	15	SelfSchCut	Local	SOLR	1	
05/25	16	Economic	Local	SOLR	3769	5131
05/25	16	Economic	Local	WIND	434	566
05/25	16	Economic	System	SOLR	338	1
05/25	16	Economic	System	WIND	55	41
05/25	16	SelfSchCut	Local	SOLR	2	8
05/25	17	Economic	Local	SOLR	3018	3454
05/25	17	Economic	Local	WIND	414	625
05/25	17	Economic	System	WIND	11	13
05/25	18	Economic	Local	SOLR	1547	3015
05/25	18	Economic	Local	WIND	292	671
05/25	18	Economic	System	SOLR	2	2
05/25	18	Economic	System	WIND	3	12
05/25	19	Economic	Local	SOLR	86	423
05/25	19	Economic	Local	WIND	202	175
05/25	19	Economic	System	SOLR	3	
05/25	20	Economic	Local	SOLR	12	34
05/25	20	Economic	Local	WIND	185	206
05/25	20	Economic	System	SOLR	1	
05/25	21	Economic	Local	WIND	226	236
05/25	22	Economic	Local	WIND	227	234
05/25	23	Economic	Local	WIND	228	237
05/25	24	Economic	Local	WIND	196	231