Wind and Solar Curtailment February 27, 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.

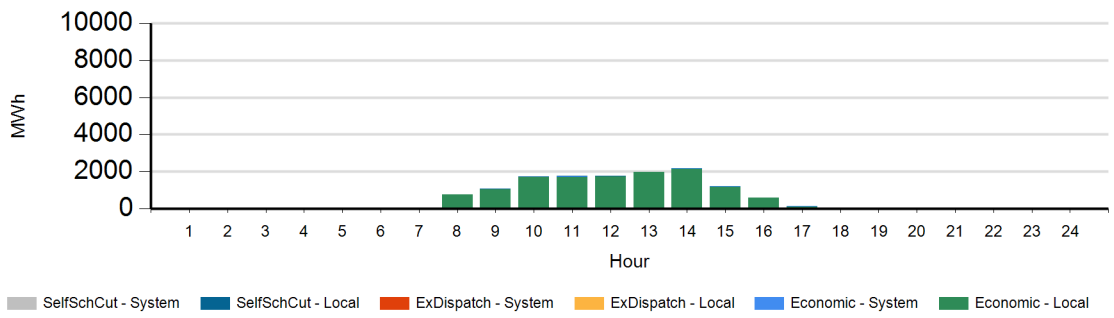
[2]The Renewables Watch report provides daily actual renewable production within the ISO grid. It is available at: http://www.caiso.com/green/renewableswatch.html.

[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.

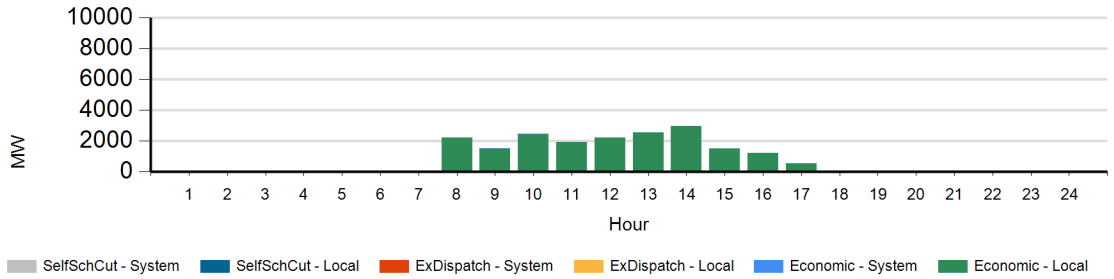
[4]For more information on oversupply conditions, please see: https://www.caiso.com/Documents/FlexibleResourcesHelpRenewables_FastFacts.pdf

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

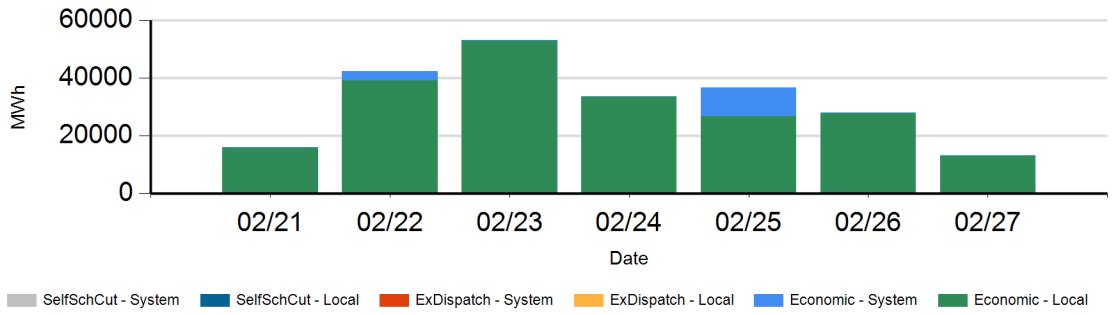
1. Hourly wind/solar generation curtailment energy in MWh. - 2/27/2025



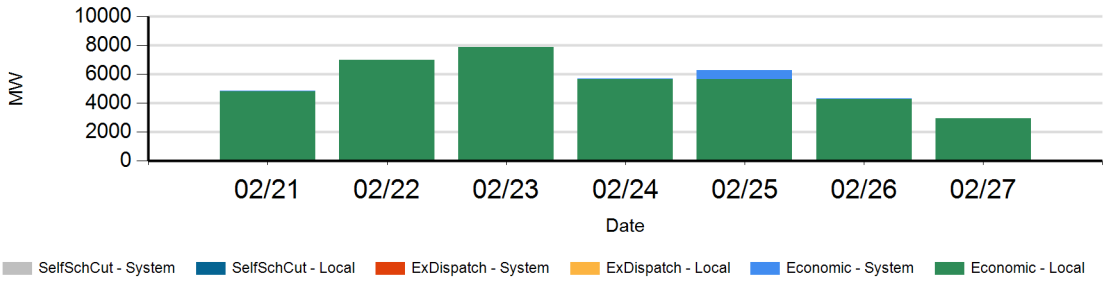
2. Maximum wind/solar generation curtailment in MW for any one of the twelve real-time dispatch intervals in a particular hour. - 2/27/2025



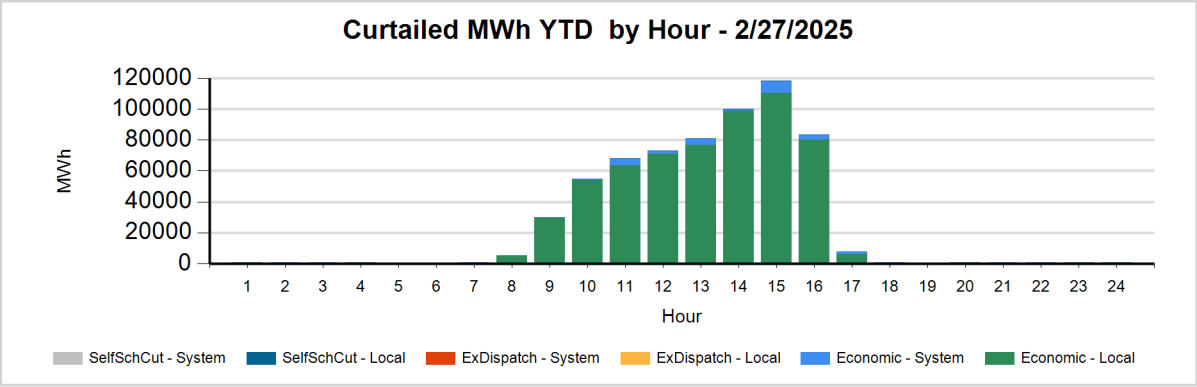
3. Daily wind/solar curtailment energy in MWh on a 7-day basis. - 2/27/2025



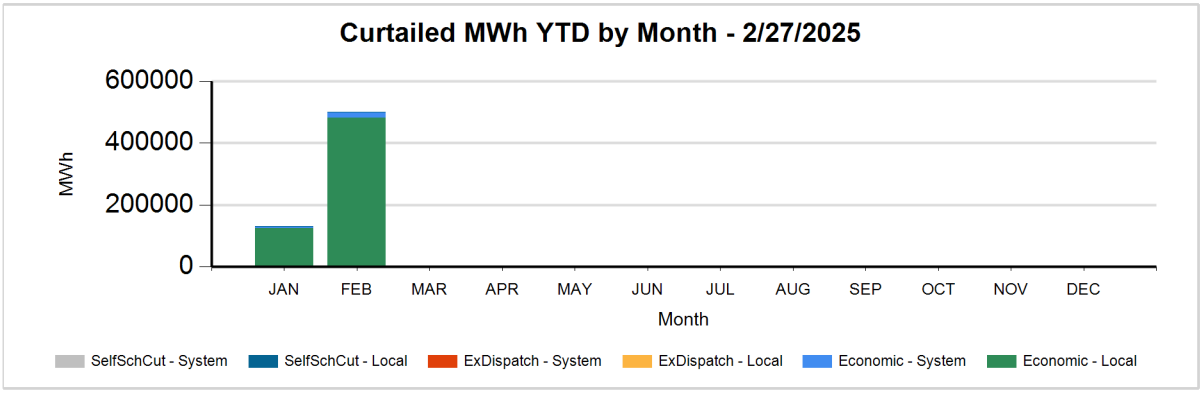
4. Maximum generation curtailment in MW for any one of the twelve real-time dispatch intervals in a particular day on a 7-day basis. - 2/27/2025



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 - 2/27/2025
LocalEconomic	604,686
LocalSelfSchCut	24
SystemEconomic	26,613
TOTAL	631,324

California ISO

Data used to produce hourly chart

DATE	HOUR	CURT TYPE	REASON	FUEL TYPE	CURTAILED MWH	CURTAILED MW
02/27	8	Economic	Local	SOLR	729	2069
02/27	8	Economic	Local	WIND	24	143
02/27	9	Economic	Local	SOLR	1080	1475
02/27	9	Economic	System	SOLR	2	
02/27	9	SelfSchCut	Local	SOLR	2	7
02/27	10	Economic	Local	SOLR	1734	2445
02/27	10	Economic	System	WIND	2	10
02/27	10	SelfSchCut	Local	SOLR	1	
02/27	11	Economic	Local	SOLR	1739	1925
02/27	11	Economic	System	WIND	1	
02/27	11	SelfSchCut	Local	SOLR	7	
02/27	12	Economic	Local	SOLR	1745	2214
02/27	12	SelfSchCut	Local	SOLR	4	
02/27	13	Economic	Local	SOLR	1914	2485
02/27	13	Economic	Local	WIND	41	40
02/27	14	Economic	Local	SOLR	2119	2902
02/27	14	Economic	Local	WIND	25	42
02/27	14	Economic	System	SOLR	7	
02/27	14	Economic	System	WIND	20	
02/27	15	Economic	Local	SOLR	1188	1512
02/27	15	Economic	System	SOLR	10	
02/27	16	Economic	Local	SOLR	589	1223
02/27	17	Economic	Local	SOLR	123	519
02/27	17	Economic	System	SOLR	2	22
02/27	18	Economic	System	SOLR	3	17