

Wind and Solar Curtailment May 03, 2018

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.

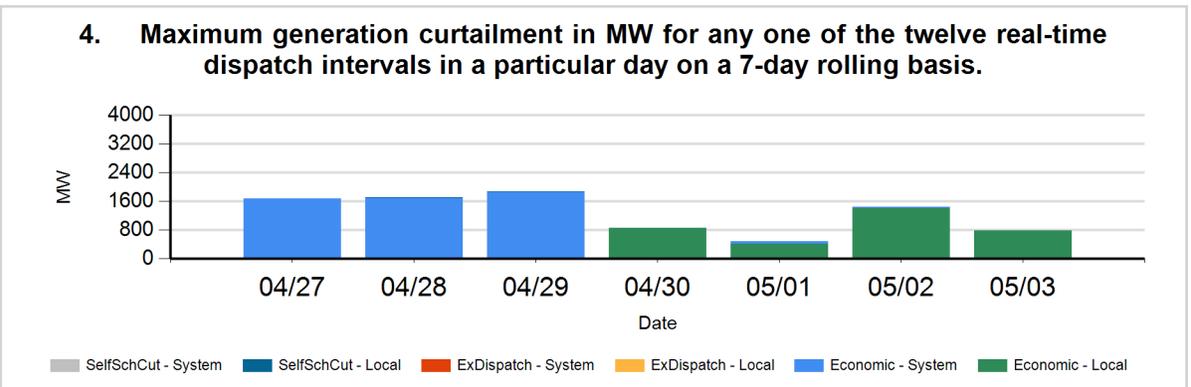
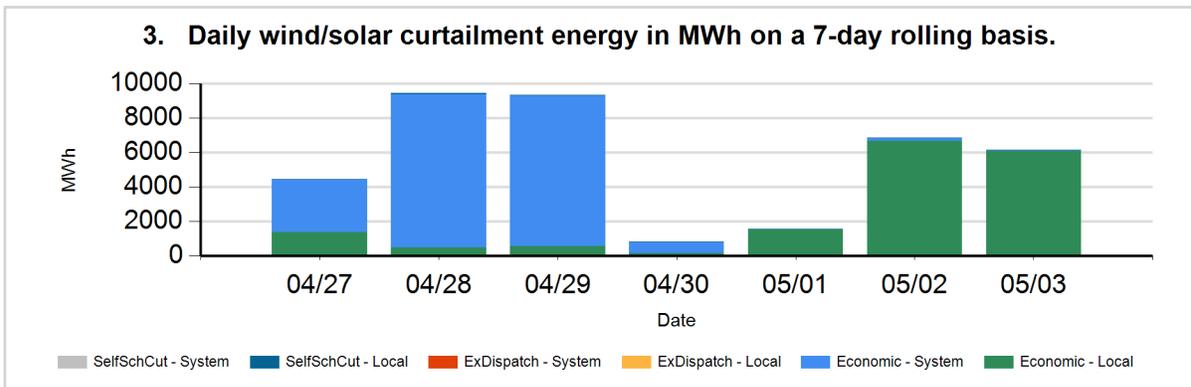
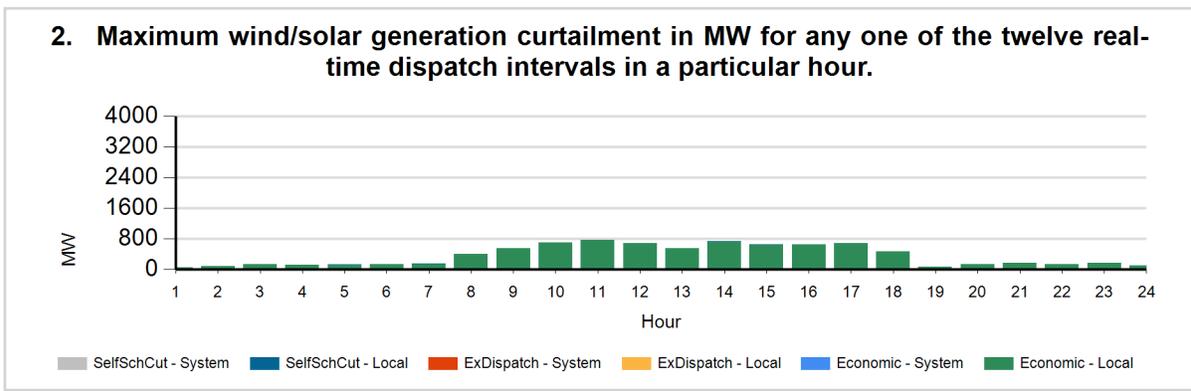
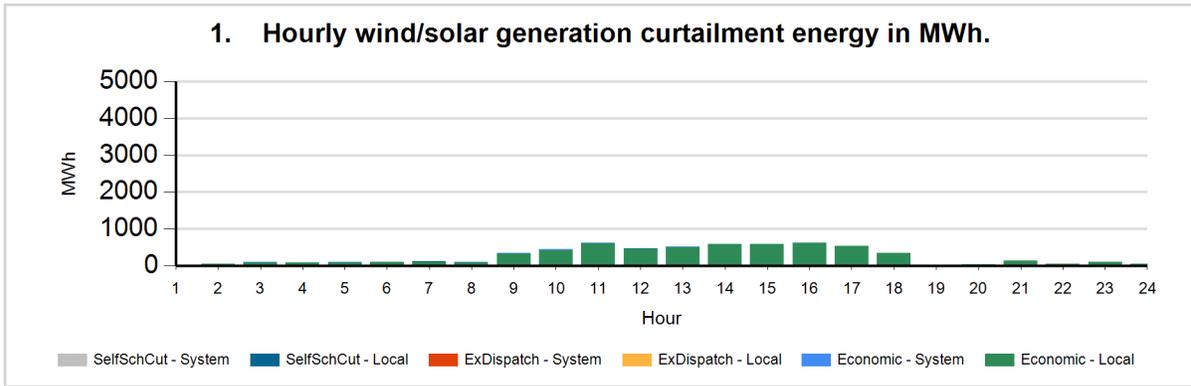
¹Only wind and solar resources can be reported in this manner because these resources have a forecast. Curtailment is defined as the difference between actual production and the forecast when actual production is less than the forecast.

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

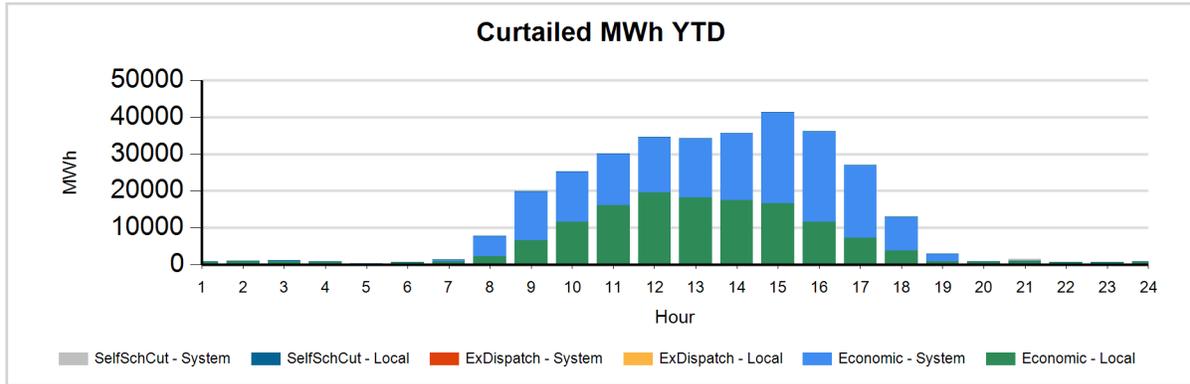
³Congestion occurs when available, least-cost energy cannot be delivered to some loads because transmission facilities do not have sufficient capacity to deliver the energy.

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

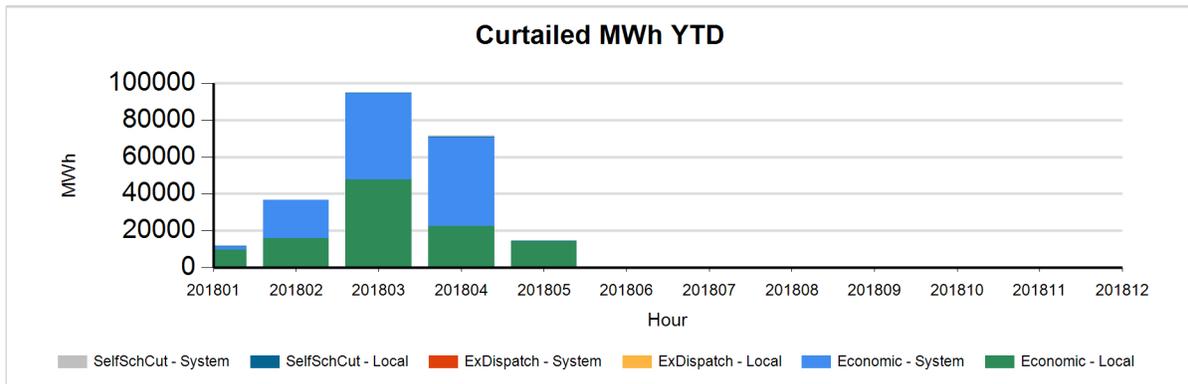
The following charts show the daily and 7-day rolling wind and solar curtailment by category, if any.



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
LocalEconomic	140,589
LocalSelfSchCut	1,370
SystemEconomic	175,893
SystemSelfSchCut	493
TOTAL	229,537

Data used to produce hourly chart

DATE	HOUR	CURT TYPE	REASON	FUEL TYPE	CURTAILED MWH	CURTAILED MW
05/03	1	Economic	Local	WIND	17	44
05/03	2	Economic	Local	WIND	54	76
05/03	3	Economic	Local	WIND	97	134
05/03	4	Economic	Local	WIND	79	109
05/03	5	Economic	Local	WIND	102	124
05/03	5	Economic	System	WIND	1	16
05/03	6	Economic	Local	WIND	105	130
05/03	7	Economic	Local	WIND	114	138
05/03	7	SelfSchCut	Local	WIND	2	12
05/03	8	Economic	Local	SOLR	94	390
05/03	8	Economic	Local	WIND	9	4
05/03	9	Economic	Local	SOLR	308	553
05/03	10	Economic	Local	SOLR	361	666
05/03	10	Economic	Local	WIND	57	36
05/03	11	Economic	Local	SOLR	510	710
05/03	11	Economic	Local	WIND	110	63
05/03	12	Economic	Local	SOLR	372	564
05/03	12	Economic	Local	WIND	97	114
05/03	13	Economic	Local	SOLR	432	436
05/03	13	Economic	Local	WIND	85	116
05/03	14	Economic	Local	SOLR	539	697
05/03	14	Economic	Local	WIND	52	40
05/03	14	SelfSchCut	Local	SOLR	0	3
05/03	15	Economic	Local	SOLR	575	640
05/03	15	SelfSchCut	Local	SOLR	0	1
05/03	16	Economic	Local	SOLR	611	655
05/03	17	Economic	Local	SOLR	537	670
05/03	17	Economic	Local	WIND	2	5
05/03	18	Economic	Local	SOLR	339	457
05/03	19	Economic	Local	SOLR	6	61
05/03	20	Economic	Local	WIND	37	138

05/03	21	Economic	Local	WIND	130	160
05/03	22	Economic	Local	WIND	58	130
05/03	23	Economic	Local	WIND	99	168
05/03	24	Economic	Local	WIND	54	103

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 Hong Zhou at hzhou@caiso.com.