

Wind and Solar Curtailment June 14, 2020

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.

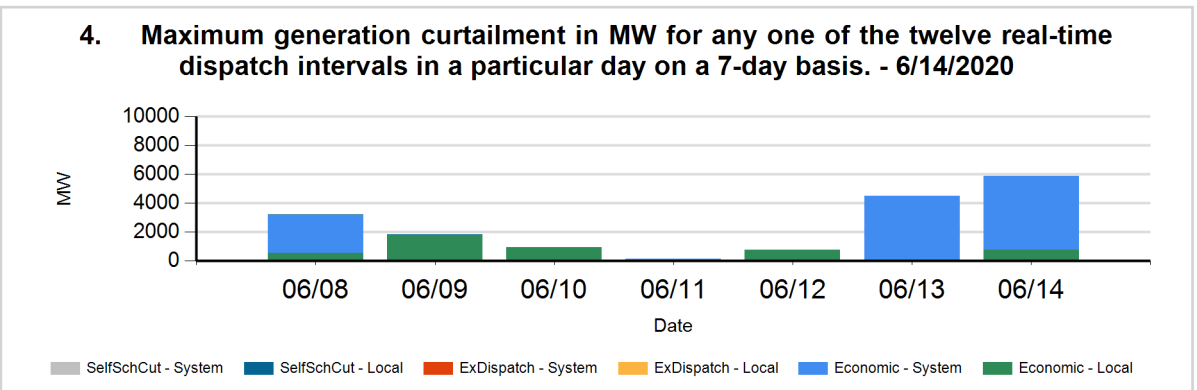
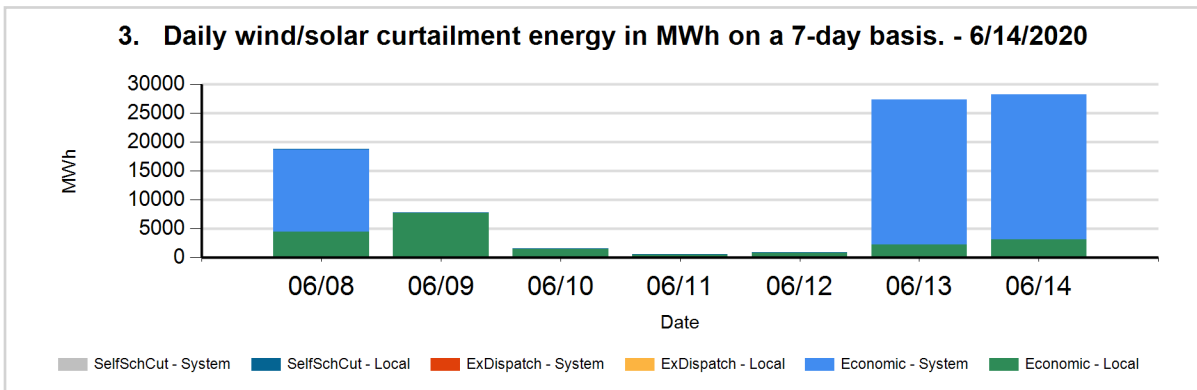
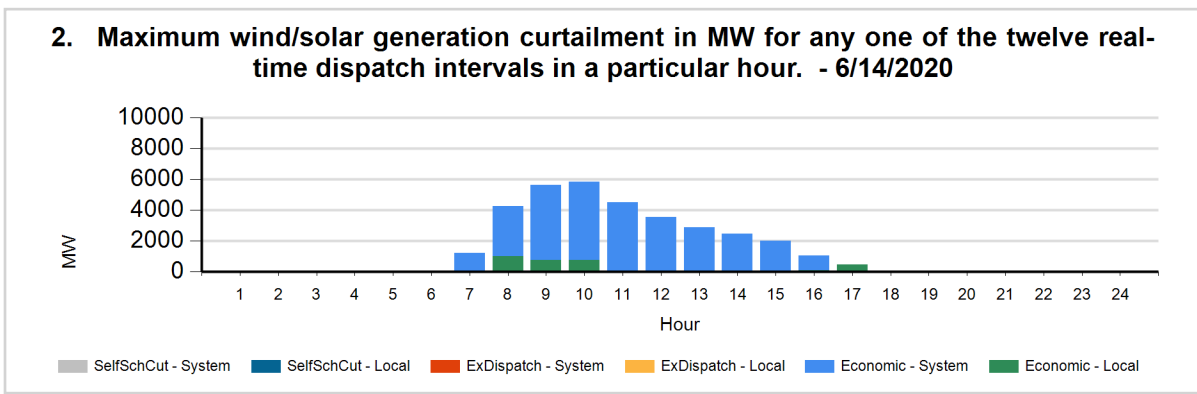
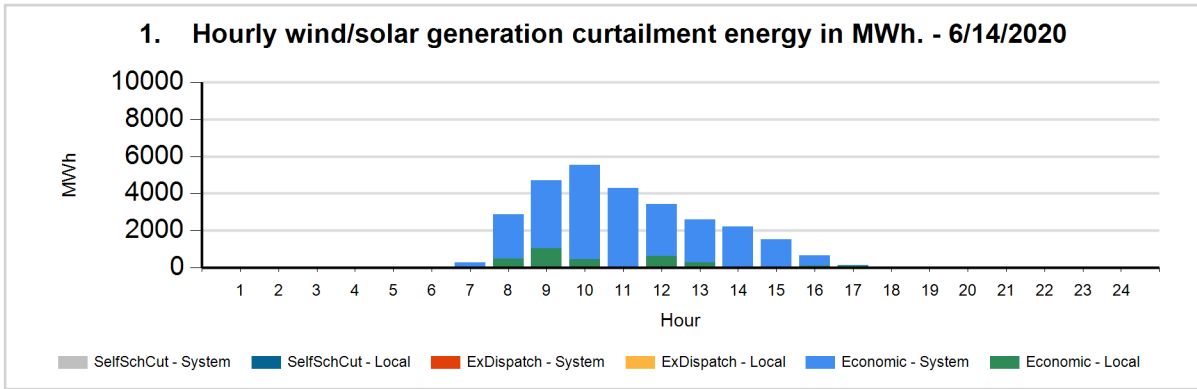
¹Only wind and solar resources can be reported in this manner because these resources have a forecast. Curtailment is defined as the difference between actual production and the forecast when actual production is less than the forecast.

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

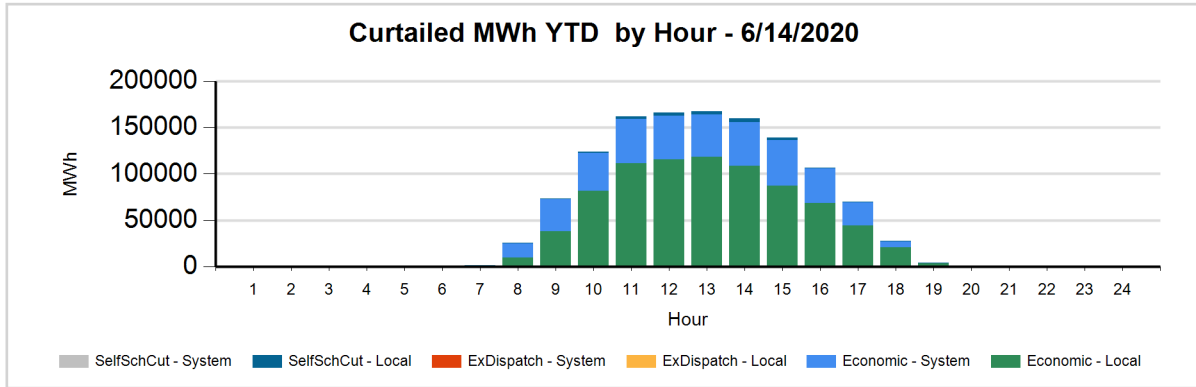
³Congestion occurs when available, least-cost energy cannot be delivered to some loads because transmission facilities do not have sufficient capacity to deliver the energy.

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

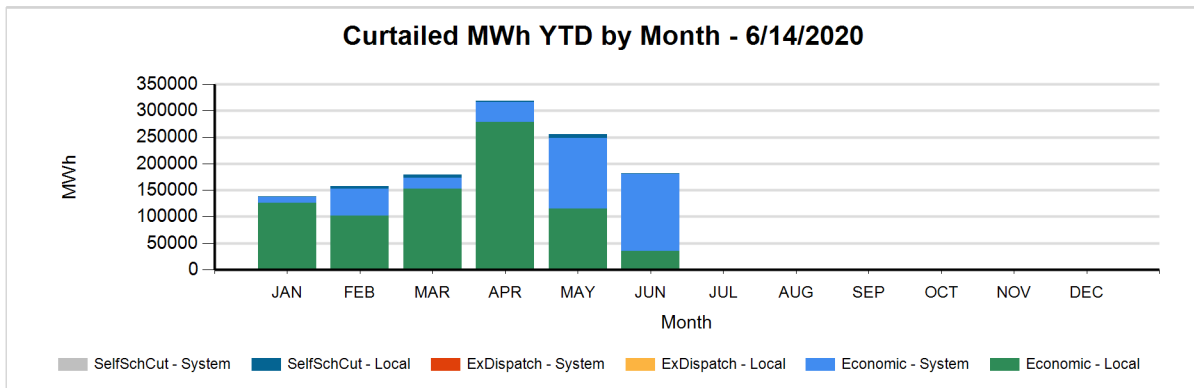
The following charts show the daily and 7-day wind and solar curtailment by category, if any.



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 - 6/14/2020
LocalEconomic	808,988
LocalSelfSchCut	20,185
SystemEconomic	400,322
TOTAL	1,229,495

Data used to produce hourly chart

DATE	HOUR	CURT TYPE	REASON	FUEL TYPE	CURTAILED MWH	CURTAILED MW
06/14	7	Economic	Local	SOLR	0	
06/14	7	Economic	System	SOLR	247	1168
06/14	7	Economic	System	WIND	18	45
06/14	8	Economic	Local	SOLR	463	963
06/14	8	Economic	Local	WIND	27	52
06/14	8	Economic	System	SOLR	2258	3048
06/14	8	Economic	System	WIND	130	193
06/14	9	Economic	Local	SOLR	973	686
06/14	9	Economic	Local	WIND	58	47
06/14	9	Economic	System	SOLR	3539	4705
06/14	9	Economic	System	WIND	120	178
06/14	10	Economic	Local	SOLR	407	695
06/14	10	Economic	Local	WIND	28	49
06/14	10	Economic	System	SOLR	4951	4935
06/14	10	Economic	System	WIND	152	179
06/14	11	Economic	Local	SOLR	21	9
06/14	11	Economic	System	SOLR	4160	4403
06/14	11	Economic	System	WIND	105	102
06/14	12	Economic	Local	SOLR	599	26
06/14	12	Economic	Local	WIND	6	
06/14	12	Economic	System	SOLR	2768	3456
06/14	12	Economic	System	WIND	35	47
06/14	13	Economic	Local	SOLR	268	27
06/14	13	Economic	Local	WIND	2	
06/14	13	Economic	System	SOLR	2307	2818
06/14	13	Economic	System	WIND	29	39
06/14	14	Economic	Local	SOLR	24	24
06/14	14	Economic	System	SOLR	2172	2398
06/14	14	Economic	System	WIND	27	28
06/14	15	Economic	Local	SOLR	30	26
06/14	15	Economic	System	SOLR	1476	1948

06/14	15	Economic	System	WIND	27	27
06/14	16	Economic	Local	SOLR	84	70
06/14	16	Economic	Local	WIND	2	
06/14	16	Economic	System	SOLR	540	929
06/14	16	Economic	System	WIND	19	33
06/14	17	Economic	Local	SOLR	94	420
06/14	17	Economic	Local	WIND	2	18
06/14	17	Economic	System	SOLR	41	
06/14	17	Economic	System	WIND	6	
06/14	18	Economic	Local	SOLR	44	56
06/14	19	Economic	Local	SOLR	5	20

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.