

Wind and Solar Curtailment June 13, 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.

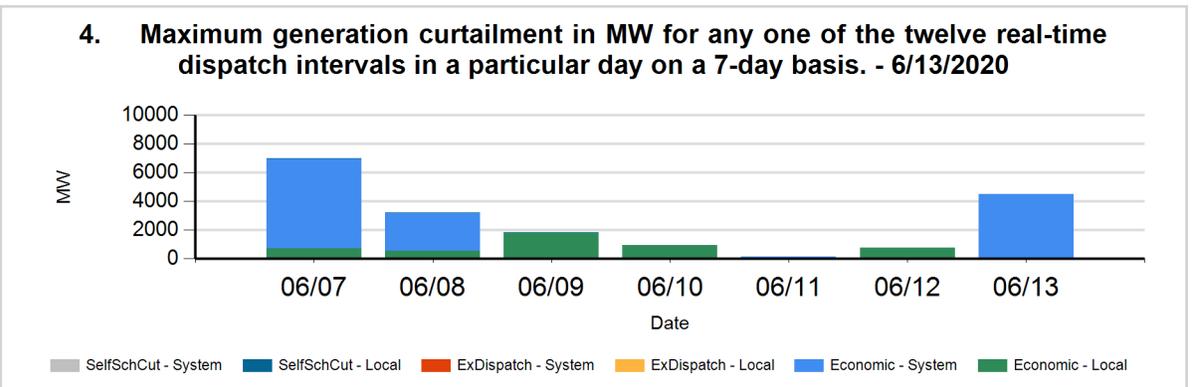
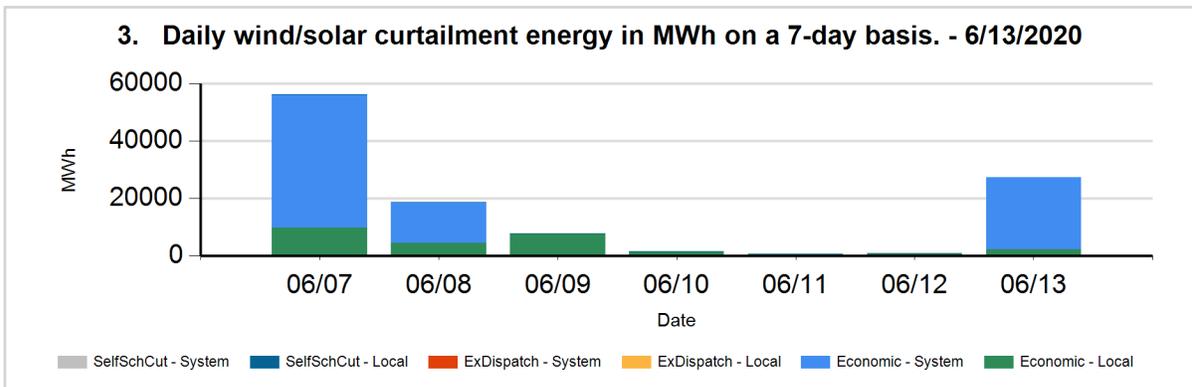
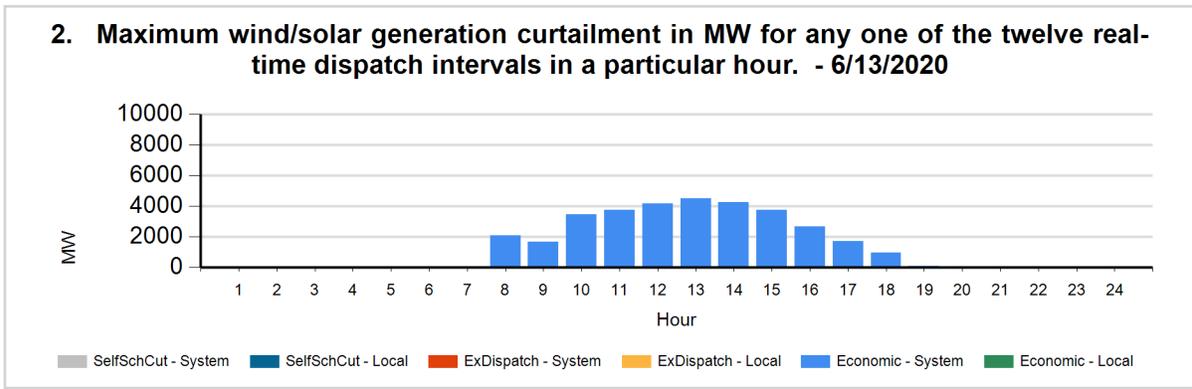
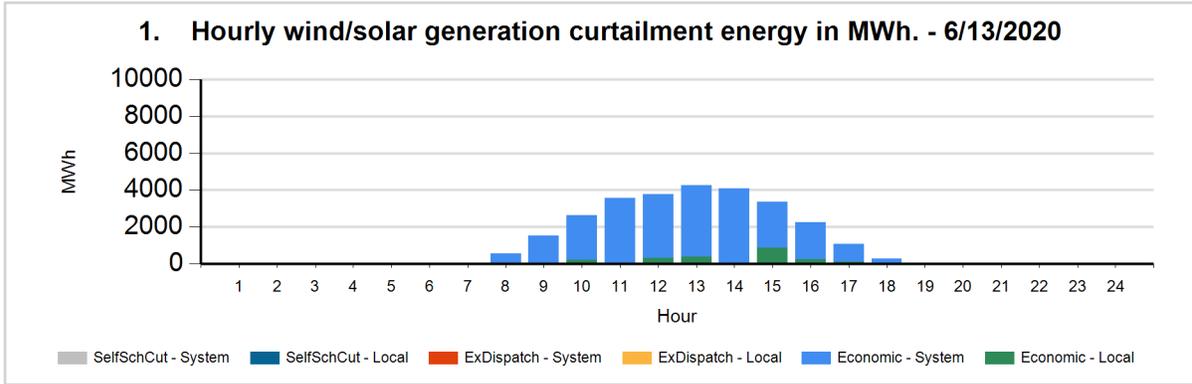
¹Only wind and solar resources can be reported in this manner because these resources have a forecast. Curtailment is defined as the difference between actual production and the forecast when actual production is less than the forecast.

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

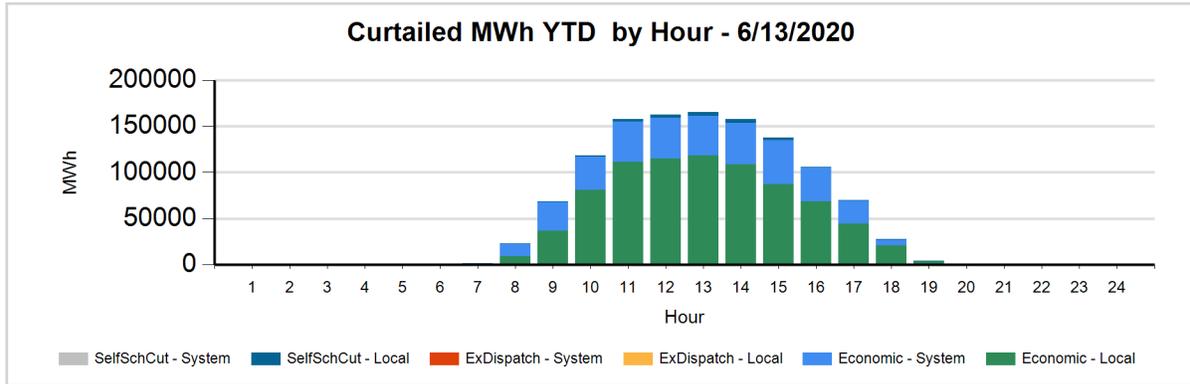
³Congestion occurs when available, least-cost energy cannot be delivered to some loads because transmission facilities do not have sufficient capacity to deliver the energy.

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

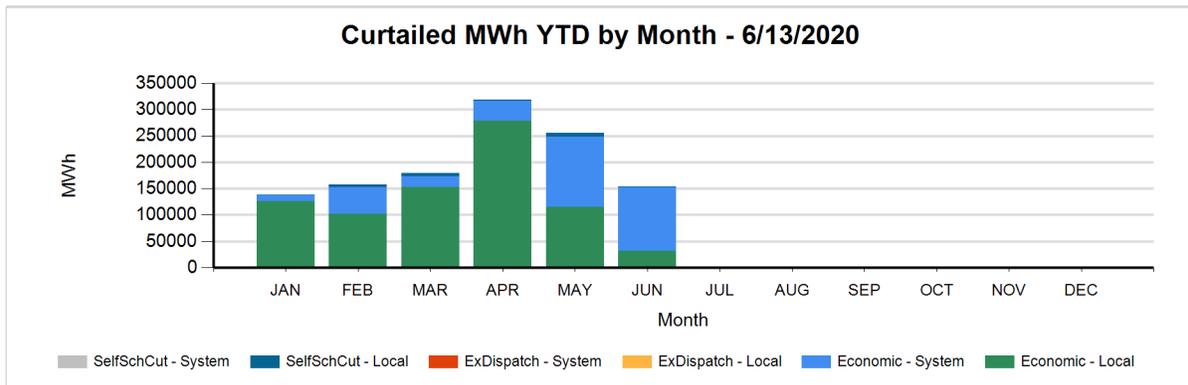
The following charts show the daily and 7-day wind and solar curtailment by category, if any.



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 - 6/13/2020
LocalEconomic	805,851
LocalSelfSchCut	20,185
SystemEconomic	375,196
TOTAL	1,201,233

Data used to produce hourly chart

DATE	HOUR	CURT TYPE	REASON	FUEL TYPE	CURTAILED MWH	CURTAILED MW
06/13	1	Economic	Local	WIND	0	2
06/13	7	Economic	Local	SOLR	1	
06/13	7	Economic	System	SOLR	13	47
06/13	8	Economic	Local	SOLR	11	31
06/13	8	Economic	System	SOLR	509	1975
06/13	8	Economic	System	WIND	28	61
06/13	9	Economic	Local	SOLR	21	24
06/13	9	Economic	System	SOLR	1409	1537
06/13	9	Economic	System	WIND	96	86
06/13	10	Economic	Local	SOLR	187	12
06/13	10	Economic	Local	WIND	7	
06/13	10	Economic	System	SOLR	2344	3341
06/13	10	Economic	System	WIND	81	86
06/13	11	Economic	Local	SOLR	16	8
06/13	11	Economic	System	SOLR	3445	3629
06/13	11	Economic	System	WIND	90	124
06/13	12	Economic	Local	SOLR	298	20
06/13	12	Economic	Local	WIND	7	
06/13	12	Economic	System	SOLR	3323	3932
06/13	12	Economic	System	WIND	127	235
06/13	13	Economic	Local	SOLR	367	24
06/13	13	Economic	Local	WIND	13	
06/13	13	Economic	System	SOLR	3676	4177
06/13	13	Economic	System	WIND	207	281
06/13	14	Economic	Local	SOLR	25	25
06/13	14	Economic	System	SOLR	3861	4068
06/13	14	Economic	System	WIND	193	157
06/13	15	Economic	Local	SOLR	856	20
06/13	15	Economic	Local	WIND	13	
06/13	15	Economic	System	SOLR	2429	3598
06/13	15	Economic	System	WIND	44	129

06/13	16	Economic	Local	SOLR	233	29
06/13	16	Economic	Local	WIND	4	
06/13	16	Economic	System	SOLR	1969	2589
06/13	16	Economic	System	WIND	45	49
06/13	17	Economic	Local	SOLR	80	23
06/13	17	Economic	Local	WIND	3	
06/13	17	Economic	System	SOLR	951	1636
06/13	17	Economic	System	WIND	36	47
06/13	18	Economic	Local	SOLR	42	48
06/13	18	Economic	System	SOLR	213	877
06/13	18	Economic	System	WIND	13	37
06/13	19	Economic	Local	SOLR	10	22
06/13	19	Economic	System	SOLR	6	67

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.