

Wind and Solar Curtailment June 10, 2021

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.

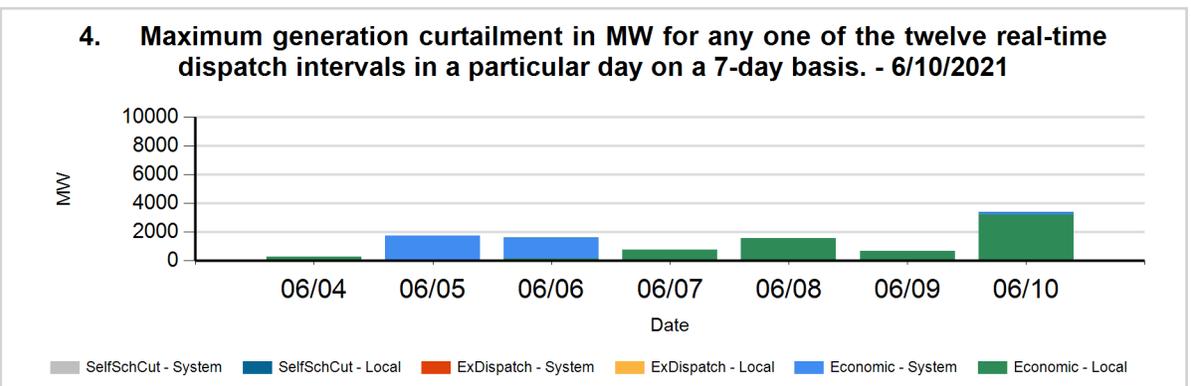
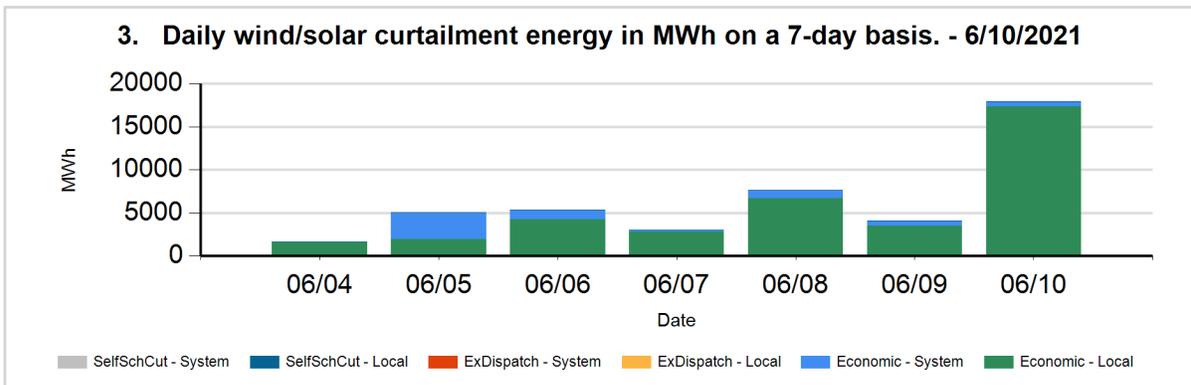
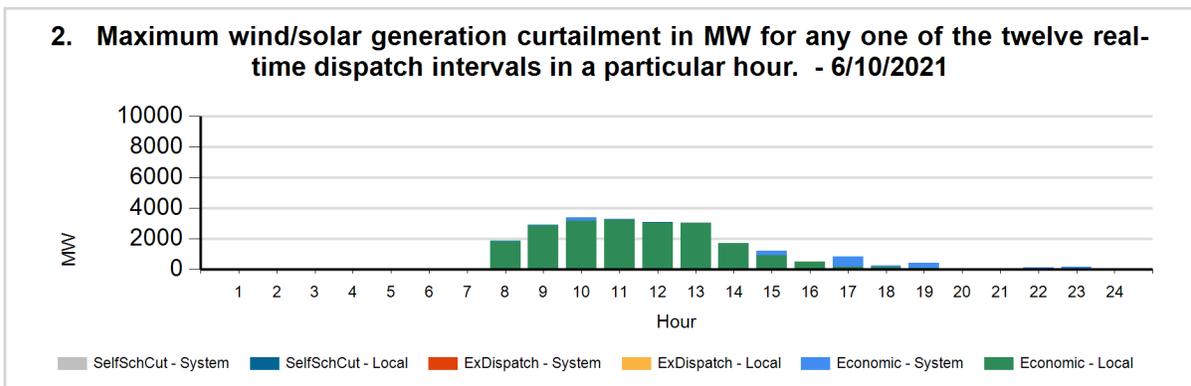
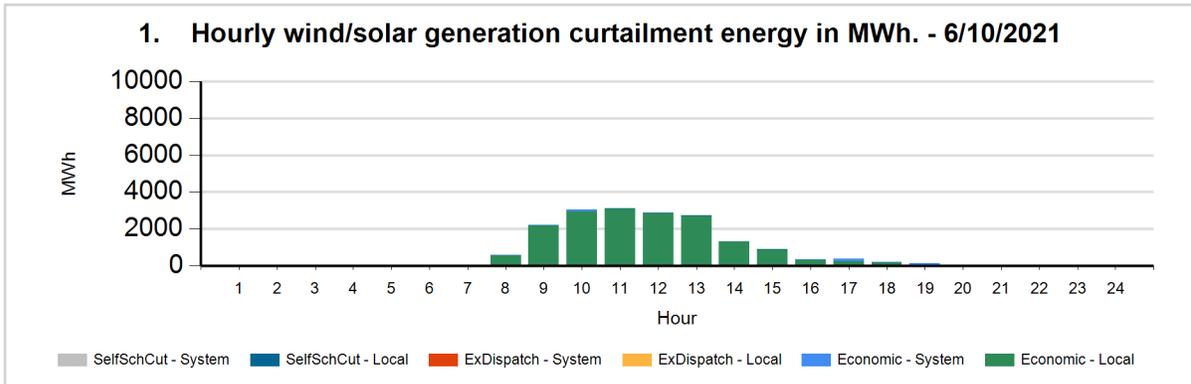
¹Only wind and solar resources can be reported in this manner because these resources have a forecast. Curtailment is defined as the difference between actual production and the forecast when actual production is less than the forecast.

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

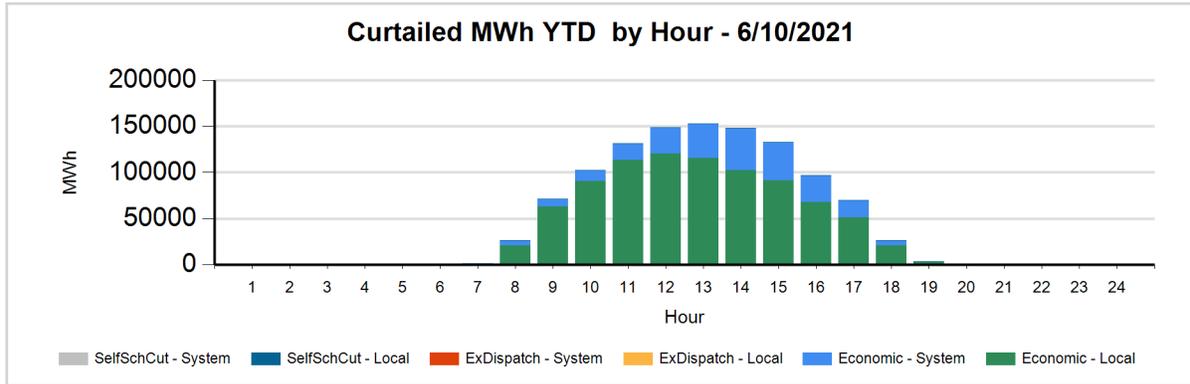
³Congestion occurs when available, least-cost energy cannot be delivered to some loads because transmission facilities do not have sufficient capacity to deliver the energy.

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

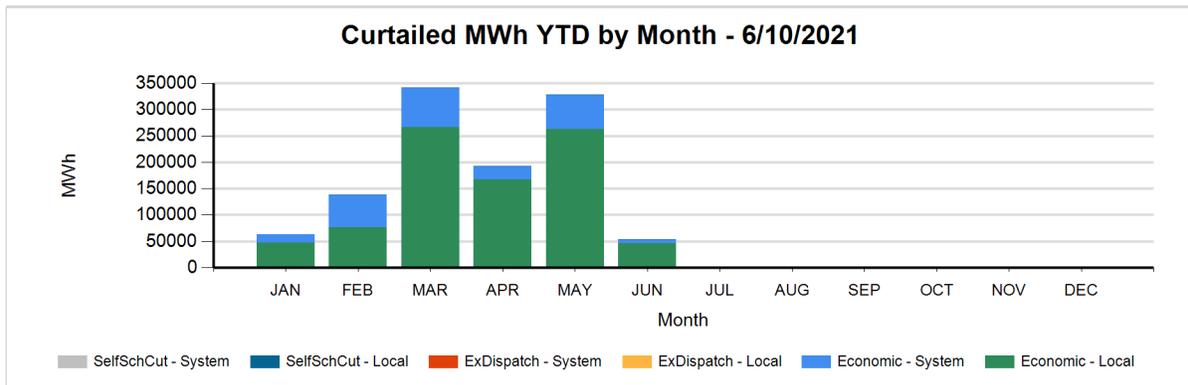
The following charts show the daily and 7-day wind and solar curtailment by category, if any.



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 - 6/10/2021
LocalEconomic	864,015
LocalSelfSchCut	3,014
SystemEconomic	248,063
TOTAL	1,115,092

Data used to produce hourly chart

DATE	HOUR	CURT TYPE	REASON	FUEL TYPE	CURTAILED MWH	CURTAILED MW
06/10	7	Economic	Local	SOLR	25	46
06/10	7	Economic	System	SOLR	1	7
06/10	8	Economic	Local	SOLR	461	1760
06/10	8	Economic	Local	WIND	84	103
06/10	8	Economic	System	SOLR	40	28
06/10	8	Economic	System	WIND	7	
06/10	9	Economic	Local	SOLR	2069	2789
06/10	9	Economic	Local	WIND	118	115
06/10	9	Economic	System	SOLR	15	20
06/10	10	Economic	Local	SOLR	2883	3086
06/10	10	Economic	Local	WIND	64	84
06/10	10	Economic	System	SOLR	89	179
06/10	10	Economic	System	WIND	12	22
06/10	10	SelfSchCut	Local	SOLR	0	3
06/10	11	Economic	Local	SOLR	3063	3235
06/10	11	Economic	Local	WIND	25	28
06/10	11	Economic	System	WIND	22	21
06/10	11	SelfSchCut	Local	SOLR	1	
06/10	12	Economic	Local	SOLR	2848	3066
06/10	12	Economic	Local	WIND	16	18
06/10	12	Economic	System	SOLR	8	
06/10	12	SelfSchCut	Local	SOLR	4	11
06/10	13	Economic	Local	SOLR	2690	2918
06/10	13	Economic	Local	WIND	45	134
06/10	13	SelfSchCut	Local	SOLR	3	
06/10	14	Economic	Local	SOLR	1305	1696
06/10	14	Economic	Local	WIND	16	3
06/10	15	Economic	Local	SOLR	863	885
06/10	15	Economic	Local	WIND	3	30
06/10	15	Economic	System	SOLR	24	283
06/10	15	Economic	System	WIND	0	1

06/10	15	SelfSchCut	Local	SOLR	1	
06/10	16	Economic	Local	SOLR	311	505
06/10	16	Economic	System	SOLR	39	
06/10	17	Economic	Local	SOLR	244	152
06/10	17	Economic	System	SOLR	138	651
06/10	17	Economic	System	WIND	8	43
06/10	18	Economic	Local	SOLR	176	169
06/10	18	Economic	System	SOLR	32	88
06/10	19	Economic	Local	SOLR	41	96
06/10	19	Economic	System	SOLR	57	174
06/10	19	Economic	System	WIND	39	155
06/10	20	Economic	Local	SOLR	1	7
06/10	20	Economic	System	SOLR	4	16
06/10	21	Economic	System	WIND	7	21
06/10	22	Economic	System	WIND	13	110
06/10	23	Economic	System	WIND	38	167

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.