

Wind and Solar Curtailment June 18, 2022

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.

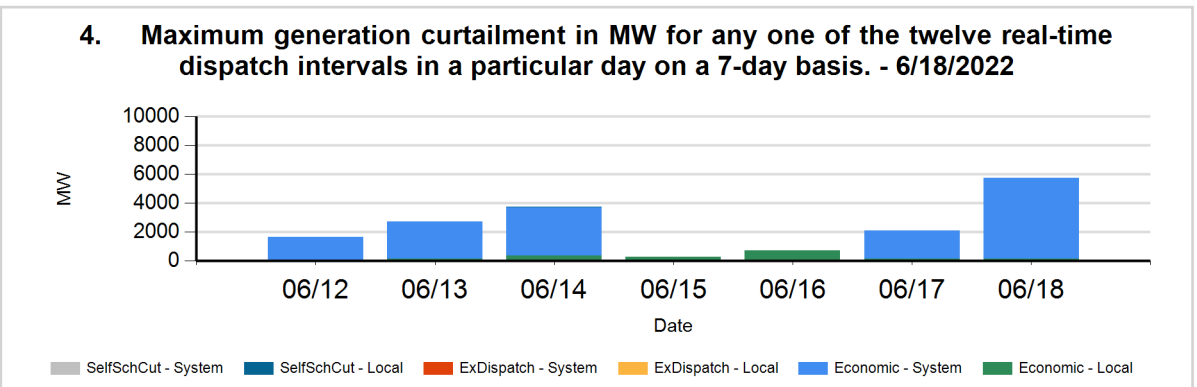
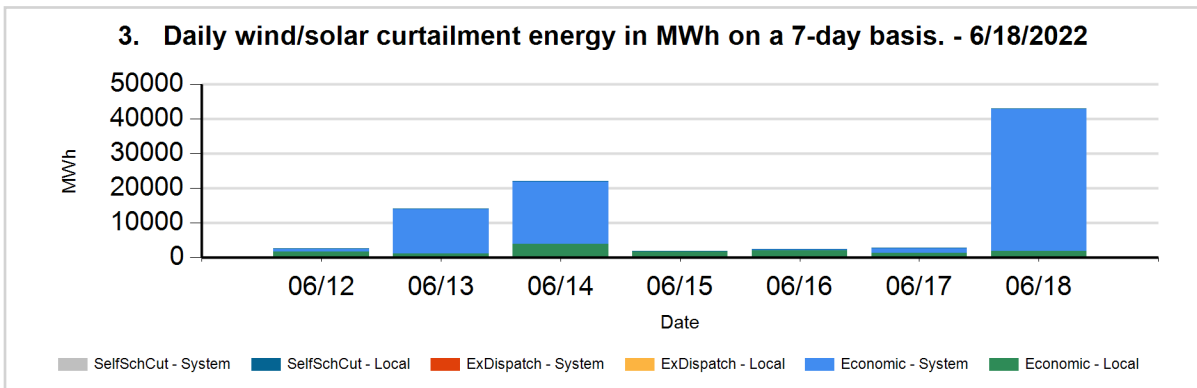
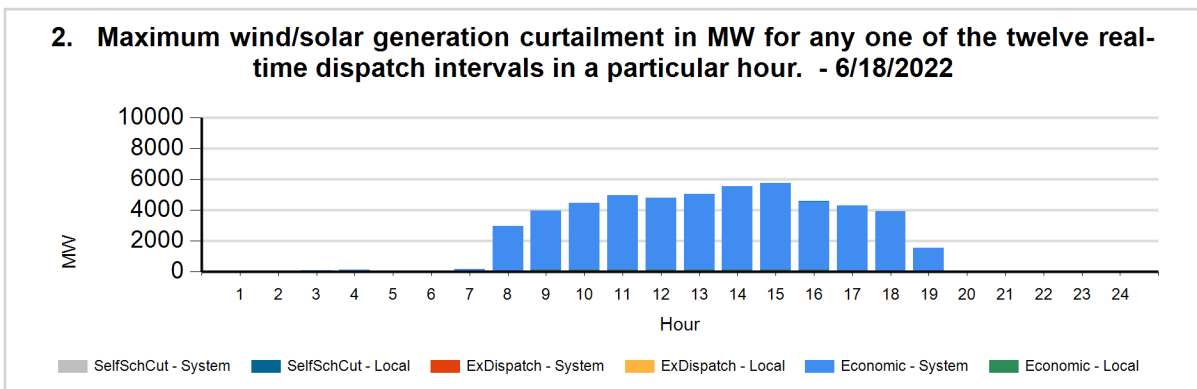
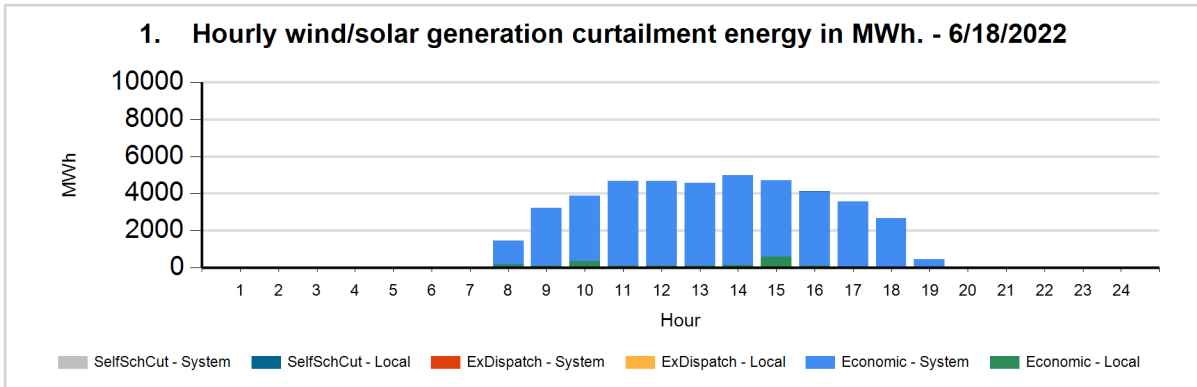
²The Renewables Watch report provides daily actual renewable production within the ISO grid. It is available at: <http://www.caiso.com/green/renewableswatch.html>.

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.

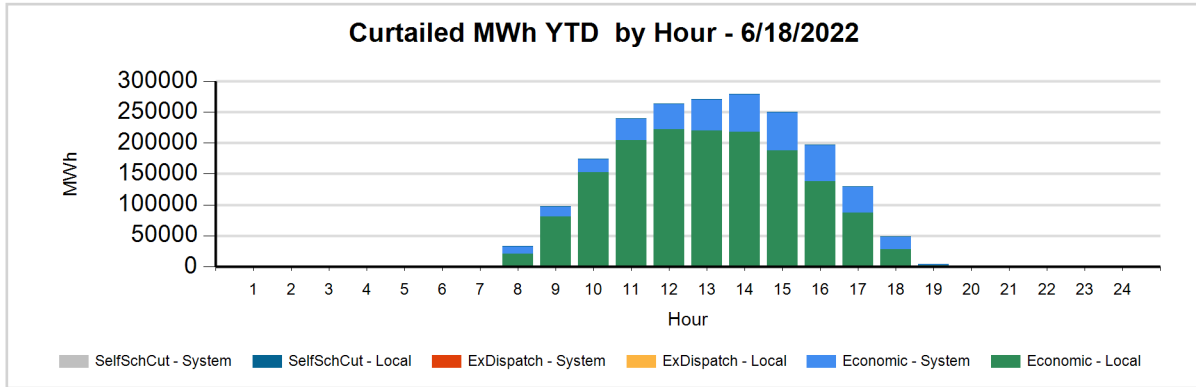
⁴For more information on oversupply conditions, please see:

https://www.caiso.com/Documents/FlexibleResourcesHelpRenewables_FastFacts.pdf

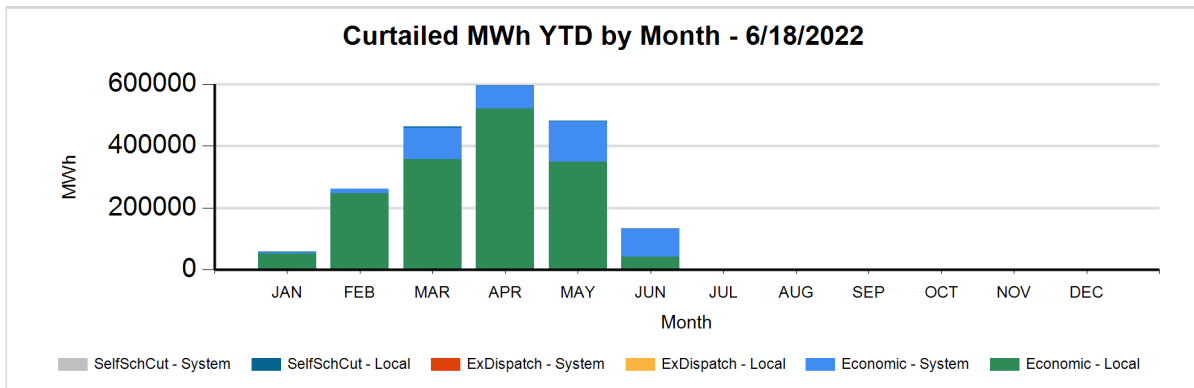
The following charts show the daily and 7-day wind and solar curtailment by category, if any.



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 - 6/18/2022
LocalEconomic	1,565,198
LocalSelfSchCut	5,059
SystemEconomic	423,734
TOTAL	1,993,991

Data used to produce hourly chart

DATE	HOUR	CURT TYPE	REASON	FUEL TYPE	CURTAILED MWH	CURTAILED MW
06/18	3	Economic	System	WIND	5	62
06/18	4	Economic	System	WIND	10	101
06/18	7	Economic	System	SOLR	11	129
06/18	7	Economic	System	WIND	2	20
06/18	8	Economic	Local	SOLR	151	54
06/18	8	Economic	Local	WIND	8	
06/18	8	Economic	System	SOLR	1246	2839
06/18	8	Economic	System	WIND	30	58
06/18	9	Economic	Local	SOLR	92	100
06/18	9	Economic	System	SOLR	3017	3712
06/18	9	Economic	System	WIND	108	147
06/18	10	Economic	Local	SOLR	354	111
06/18	10	Economic	Local	WIND	5	
06/18	10	Economic	System	SOLR	3397	4195
06/18	10	Economic	System	WIND	100	140
06/18	11	Economic	Local	SOLR	108	113
06/18	11	Economic	System	SOLR	4348	4600
06/18	11	Economic	System	WIND	208	260
06/18	12	Economic	Local	SOLR	102	101
06/18	12	Economic	System	SOLR	4452	4577
06/18	12	Economic	System	WIND	109	127
06/18	13	Economic	Local	SOLR	114	114
06/18	13	Economic	System	SOLR	4316	4680
06/18	13	Economic	System	WIND	125	239
06/18	14	Economic	Local	SOLR	125	115
06/18	14	Economic	System	SOLR	4637	4996
06/18	14	Economic	System	WIND	217	443
06/18	15	Economic	Local	SOLR	548	111
06/18	15	Economic	Local	WIND	22	
06/18	15	Economic	System	SOLR	3949	5202
06/18	15	Economic	System	WIND	200	431

06/18	16	Economic	Local	SOLR	97	118
06/18	16	Economic	System	SOLR	3871	4320
06/18	16	Economic	System	WIND	154	167
06/18	16	SelfSchCut	Local	SOLR	1	1
06/18	17	Economic	Local	SOLR	70	61
06/18	17	Economic	System	SOLR	3406	4059
06/18	17	Economic	System	WIND	71	157
06/18	18	Economic	Local	SOLR	47	4
06/18	18	Economic	System	SOLR	2543	3579
06/18	18	Economic	System	WIND	85	317
06/18	19	Economic	Local	SOLR	7	25
06/18	19	Economic	System	SOLR	427	1519
06/18	19	Economic	System	WIND	2	10
06/18	20	Economic	System	SOLR	0	3

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.