

Wind and Solar Curtailment July 05, 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.

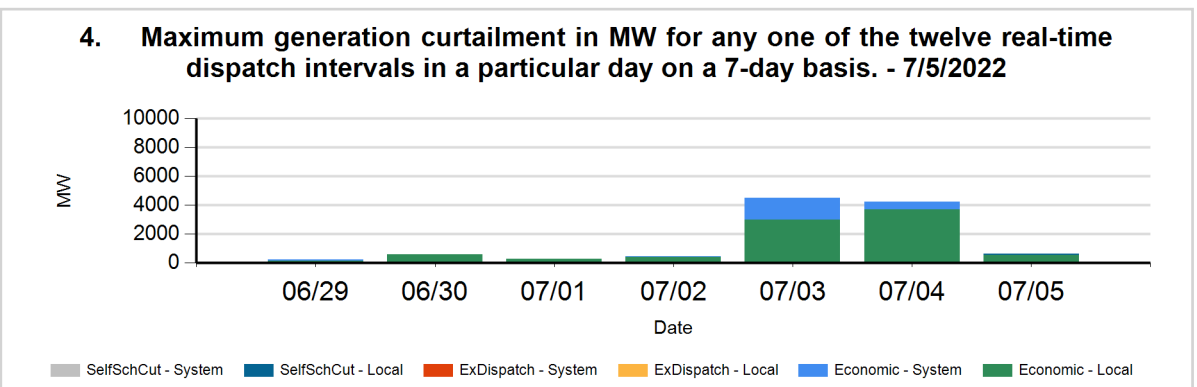
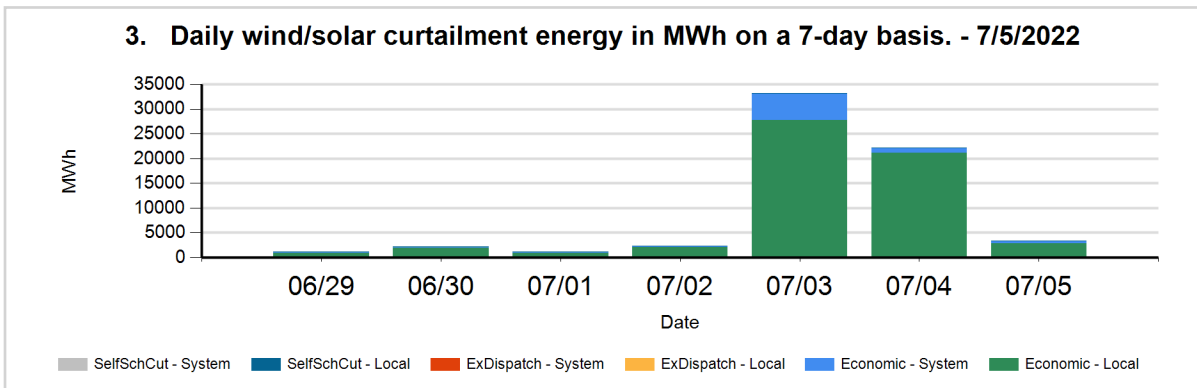
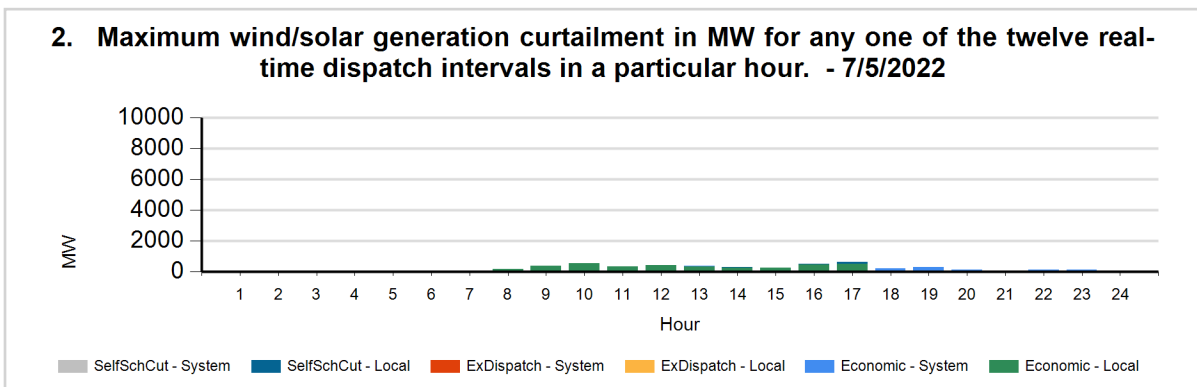
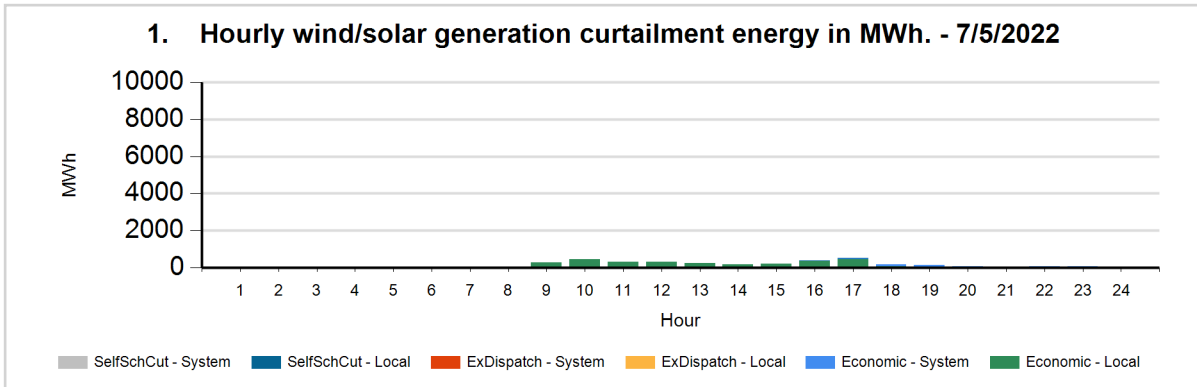
²The Renewables Watch report provides daily actual renewable production within the ISO grid. It is available at: <http://www.caiso.com/green/renewableswatch.html>.

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.

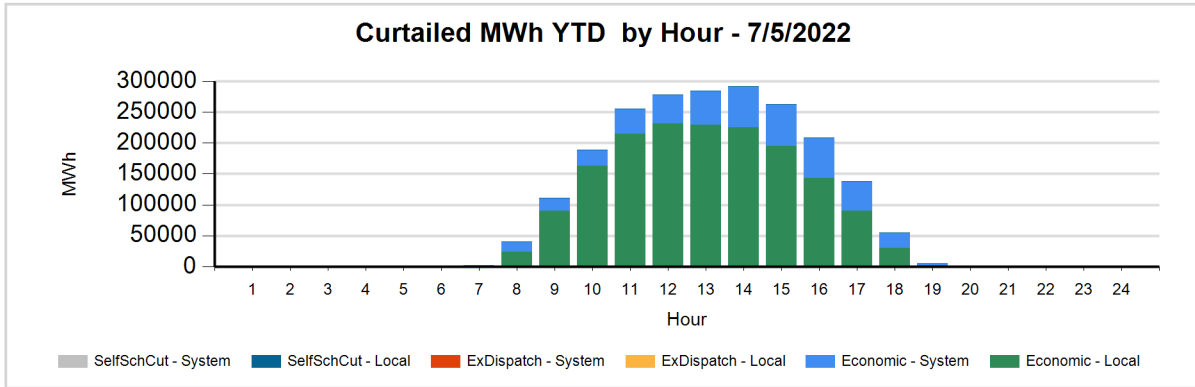
⁴For more information on oversupply conditions, please see:

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

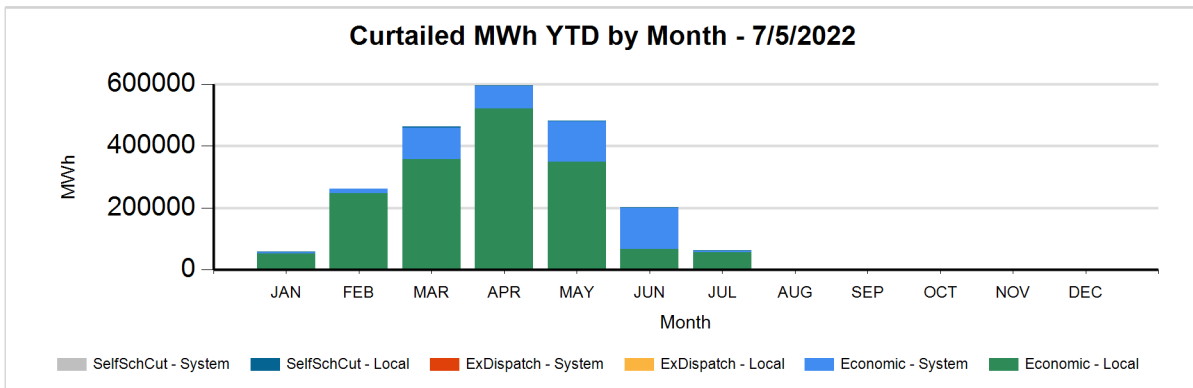
The following charts show the daily and 7-day wind and solar curtailment by category, if any.



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 - 7/5/2022
LocalEconomic	1,643,826
LocalSelfSchCut	5,282
SystemEconomic	475,882
TOTAL	2,124,990

Data used to produce hourly chart

DATE	HOUR	CURT TYPE	REASON	FUEL TYPE	CURTAILED MWH	CURTAILED MW
07/05	7	Economic	Local	SOLR	1	
07/05	7	Economic	System	SOLR	19	35
07/05	8	Economic	Local	SOLR	19	34
07/05	8	Economic	Local	WIND	20	113
07/05	8	Economic	System	SOLR	3	
07/05	9	Economic	Local	SOLR	97	187
07/05	9	Economic	Local	WIND	159	195
07/05	10	Economic	Local	SOLR	241	369
07/05	10	Economic	Local	WIND	188	177
07/05	11	Economic	Local	SOLR	113	134
07/05	11	Economic	Local	WIND	178	208
07/05	12	Economic	Local	SOLR	155	231
07/05	12	Economic	Local	WIND	138	163
07/05	13	Economic	Local	SOLR	197	317
07/05	13	Economic	Local	WIND	54	67
07/05	13	Economic	System	SOLR	0	1
07/05	14	Economic	Local	SOLR	145	218
07/05	14	Economic	Local	WIND	17	65
07/05	14	SelfSchCut	Local	SOLR	0	2
07/05	15	Economic	Local	SOLR	95	111
07/05	15	Economic	Local	WIND	109	125
07/05	16	Economic	Local	SOLR	51	53
07/05	16	Economic	Local	WIND	302	401
07/05	16	SelfSchCut	Local	SOLR	35	39
07/05	17	Economic	Local	SOLR	27	18
07/05	17	Economic	Local	WIND	442	487
07/05	17	Economic	System	SOLR	0	
07/05	17	Economic	System	WIND	11	
07/05	17	SelfSchCut	Local	SOLR	4	
07/05	17	SelfSchCut	Local	WIND	43	113
07/05	18	Economic	Local	SOLR	17	18

07/05	18	Economic	Local	WIND	65	
07/05	18	Economic	System	SOLR	4	33
07/05	18	Economic	System	WIND	74	164
07/05	19	Economic	Local	WIND	42	
07/05	19	Economic	System	WIND	108	290
07/05	20	Economic	System	WIND	77	127
07/05	21	Economic	System	WIND	3	26
07/05	22	Economic	Local	WIND	19	
07/05	22	Economic	System	WIND	51	133
07/05	23	Economic	System	WIND	56	141

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.