

Wind and Solar Curtailment July 04, 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.

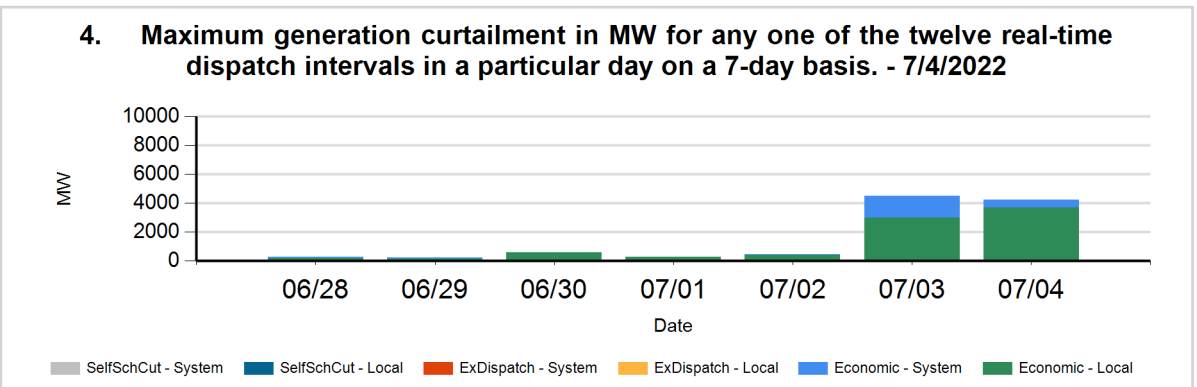
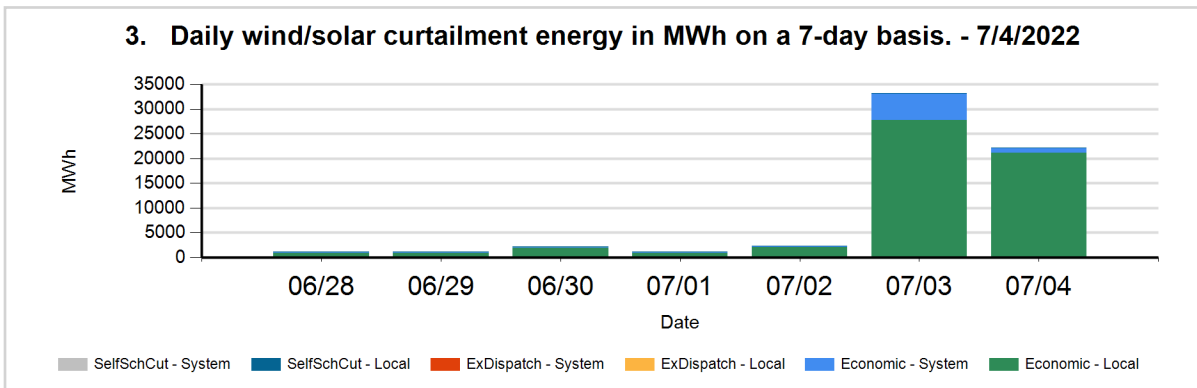
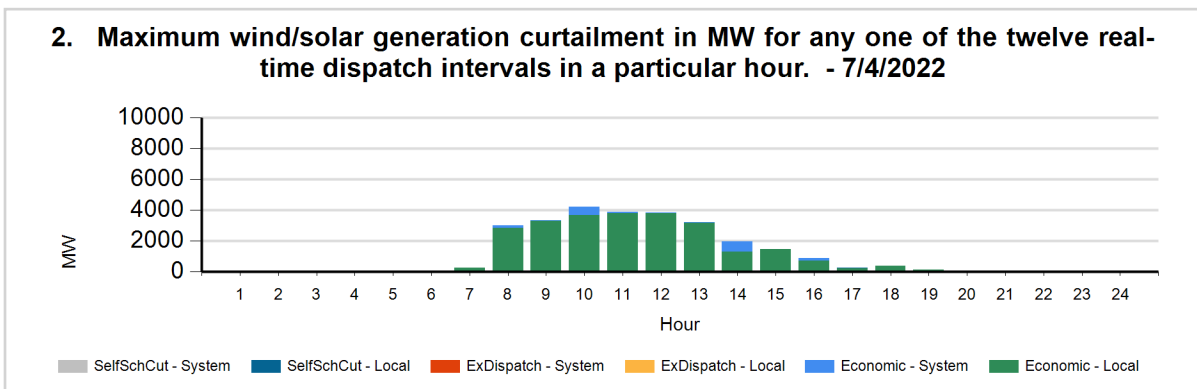
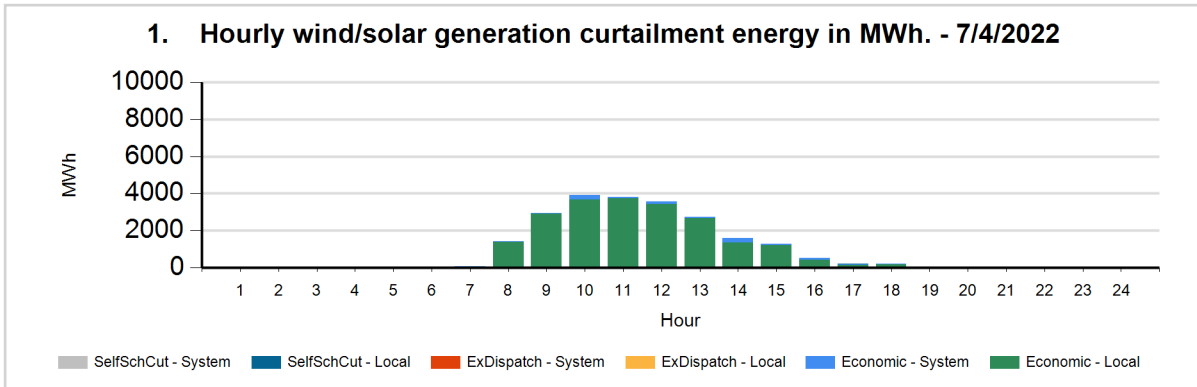
¹Only wind and solar resources can be reported in this manner because these resources have a forecast. Curtailment is defined as the difference between actual production and the forecast when actual production is less than the forecast.

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

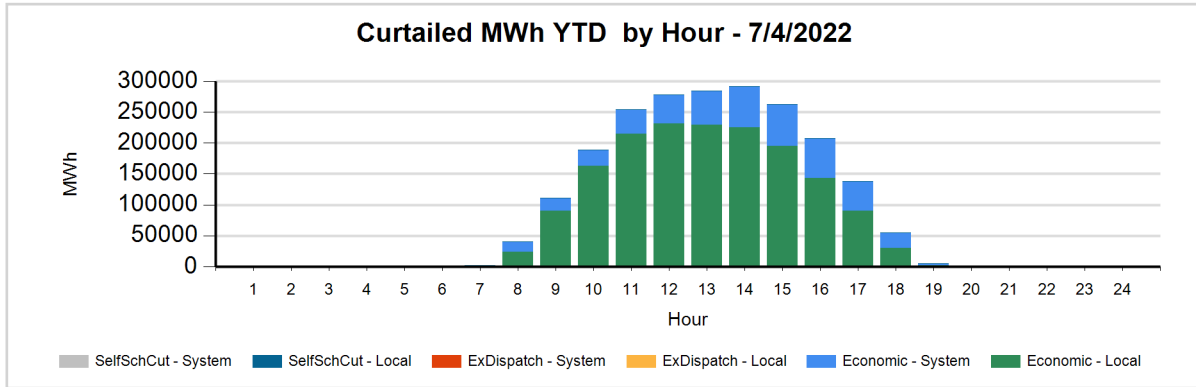
³Congestion occurs when available, least-cost energy cannot be delivered to some loads because transmission facilities do not have sufficient capacity to deliver the energy.

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

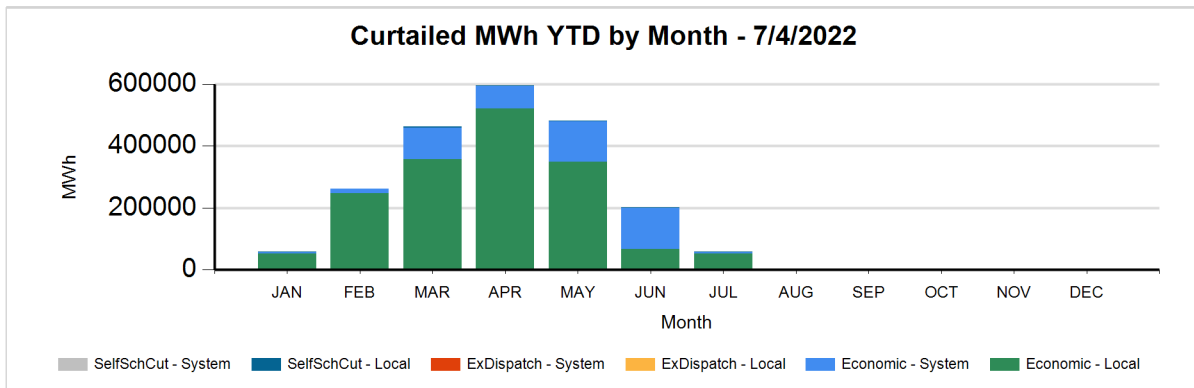
The following charts show the daily and 7-day wind and solar curtailment by category, if any.



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 - 7/4/2022
LocalEconomic	1,640,935
LocalSelfSchCut	5,200
SystemEconomic	475,476
TOTAL	2,121,610

Data used to produce hourly chart

DATE	HOUR	CURT TYPE	REASON	FUEL TYPE	CURTAILED MWH	CURTAILED MW
07/04	7	Economic	Local	SOLR	42	261
07/04	7	Economic	System	SOLR	9	
07/04	8	Economic	Local	SOLR	1353	2729
07/04	8	Economic	Local	WIND	29	106
07/04	8	Economic	System	SOLR	19	151
07/04	8	Economic	System	WIND	2	22
07/04	9	Economic	Local	SOLR	2814	3221
07/04	9	Economic	Local	WIND	99	99
07/04	9	Economic	System	SOLR	14	
07/04	9	Economic	System	WIND	6	22
07/04	10	Economic	Local	SOLR	3555	3568
07/04	10	Economic	Local	WIND	120	106
07/04	10	Economic	System	SOLR	203	516
07/04	10	Economic	System	WIND	27	35
07/04	11	Economic	Local	SOLR	3622	3712
07/04	11	Economic	Local	WIND	99	88
07/04	11	Economic	System	SOLR	65	85
07/04	11	Economic	System	WIND	13	
07/04	12	Economic	Local	SOLR	3393	3718
07/04	12	Economic	Local	WIND	41	88
07/04	12	Economic	System	SOLR	108	35
07/04	12	Economic	System	WIND	5	3
07/04	13	Economic	Local	SOLR	2655	3120
07/04	13	Economic	Local	WIND	7	56
07/04	13	Economic	System	SOLR	59	26
07/04	14	Economic	Local	SOLR	1325	1299
07/04	14	Economic	Local	WIND	5	
07/04	14	Economic	System	SOLR	247	651
07/04	14	Economic	System	WIND	16	13
07/04	15	Economic	Local	SOLR	1203	1472
07/04	15	Economic	System	SOLR	61	

07/04	15	Economic	System	WIND	13	
07/04	16	Economic	Local	SOLR	401	711
07/04	16	Economic	System	SOLR	103	172
07/04	16	Economic	System	WIND	1	7
07/04	17	Economic	Local	SOLR	139	213
07/04	17	Economic	System	SOLR	36	
07/04	17	SelfSchCut	Local	SOLR	41	42
07/04	18	Economic	Local	SOLR	191	373
07/04	18	Economic	System	SOLR	13	
07/04	19	Economic	Local	SOLR	28	102
07/04	19	Economic	System	SOLR	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.