

Wind and Solar Curtailment July 22, 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 systemwide oversupply.
- 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.

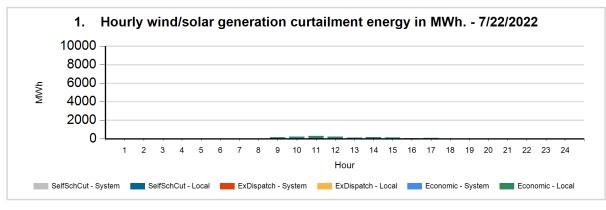
²The Renewables Watch report provides daily actual renewable production within the ISO grid. It is available at: <u>http://www.caiso.com/green/renewableswatch.html</u>.

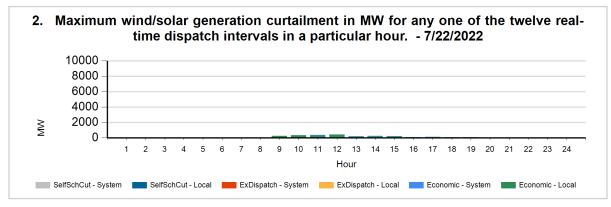
³Congestion occurs when available, least-cost energy cannot be delivered to some loads because transmission facilities do not have sufficient capacity to deliver the energy.

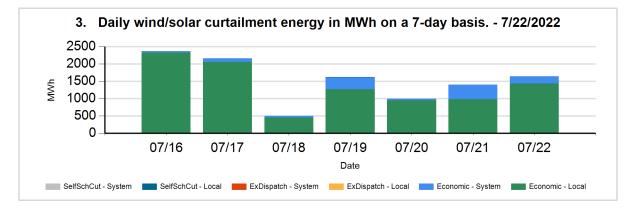
For more information on oversupply conditions, please see: <u>https://www.caiso.com/Documents/FlexibleResourcesHelpRenewables_FastFacts.pdf</u>

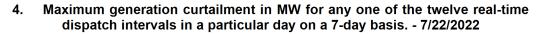


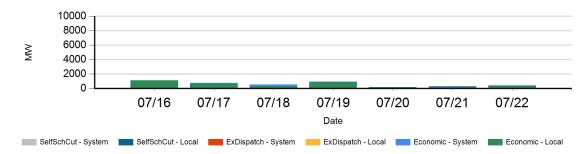
The following charts show the daily and 7-day wind and solar curtailment by category, if any.





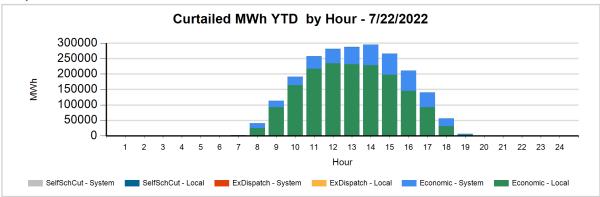




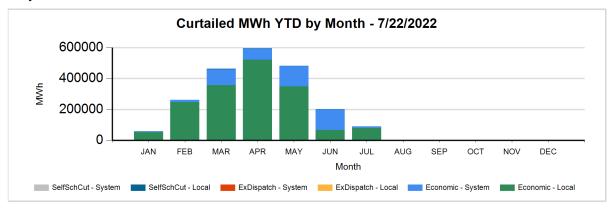




The following charts show hourly year to date wind and solar curtailment by category, if any.



The following charts show monthly year to date wind and solar curtailment by category, if any.



TYPE	YTD CURTAILED MWH - 7/22/2022
LocalEconomic	1,667,384
LocalSelfSchCut	5,399
SystemEconomic	478,651
TOTAL	2,151,433



Data used to produce hourly chart



DATE	HOU R	CURT TYPE	REASON	FUEL TYPE	CURTAILED MWH	CURTAILED MW
07/22	7	Economic	System	SOLR	1	7
07/22	8	Economic	Local	SOLR	21	42
07/22	8	Economic	System	SOLR	0	
07/22	9	Economic	Local	SOLR	83	68
07/22	9	Economic	Local	WIND	84	172
07/22	10	Economic	Local	SOLR	71	168
07/22	10	Economic	Local	WIND	82	162
07/22	10	Economic	System	WIND	82	
07/22	11	Economic	Local	SOLR	127	115
07/22	11	Economic	Local	WIND	159	158
07/22	11	Economic	System	SOLR	14	100
07/22	12	Economic	Local	SOLR	148	243
07/22	12	Economic	Local	WIND	65	153
07/22	12	Economic	System	SOLR	23	
07/22	12	SelfSchCut	Local	SOLR	0	1
07/22	13	Economic	Local	SOLR	116	112
07/22	13	Economic	System	SOLR	26	95
07/22	14	Economic	Local	SOLR	140	153
07/22	14	Economic	System	SOLR	30	99
07/22	14	SelfSchCut	Local	SOLR	3	
07/22	15	Economic	Local	SOLR	113	109
07/22	15	Economic	Local	WIND	1	
07/22	15	Economic	System	SOLR	15	76
07/22	15	SelfSchCut	Local	SOLR	4	10
07/22	16	Economic	Local	SOLR	55	69
07/22	16	SelfSchCut	Local	SOLR	1	5
07/22	17	Economic	Local	SOLR	103	108
07/22	17	Economic	System	SOLR	1	7
07/22	18	Economic	Local	SOLR	44	60
07/22	19	Economic	Local	SOLR	24	58
07/22	19	Economic	Local	WIND	2	22
07/22	20	Economic	Local	SOLR	0	2



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.