

Wind and Solar Curtailment August 18, 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.

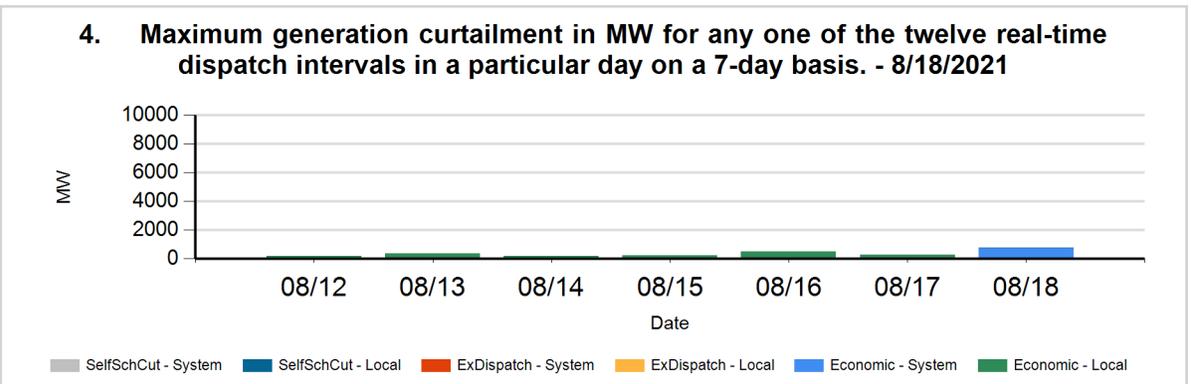
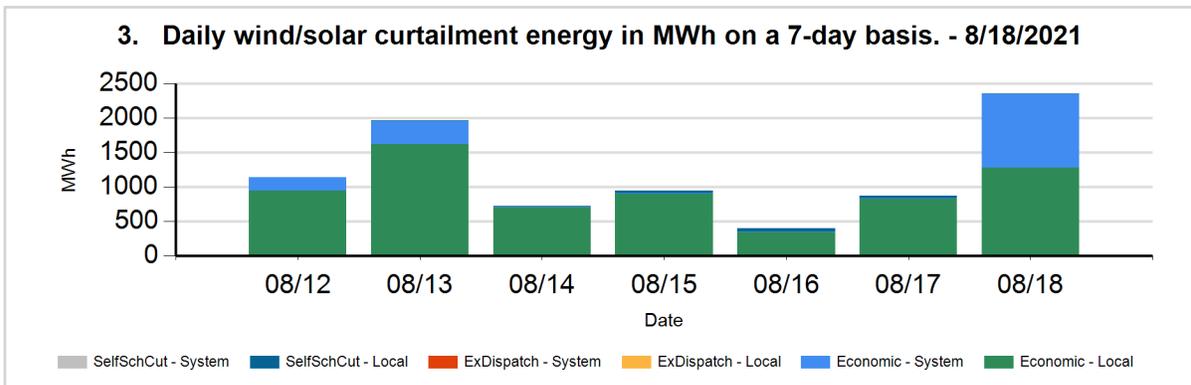
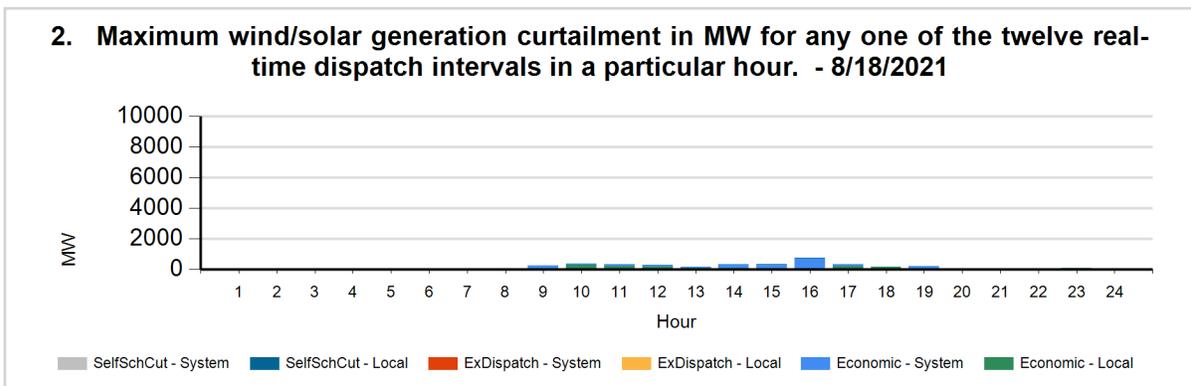
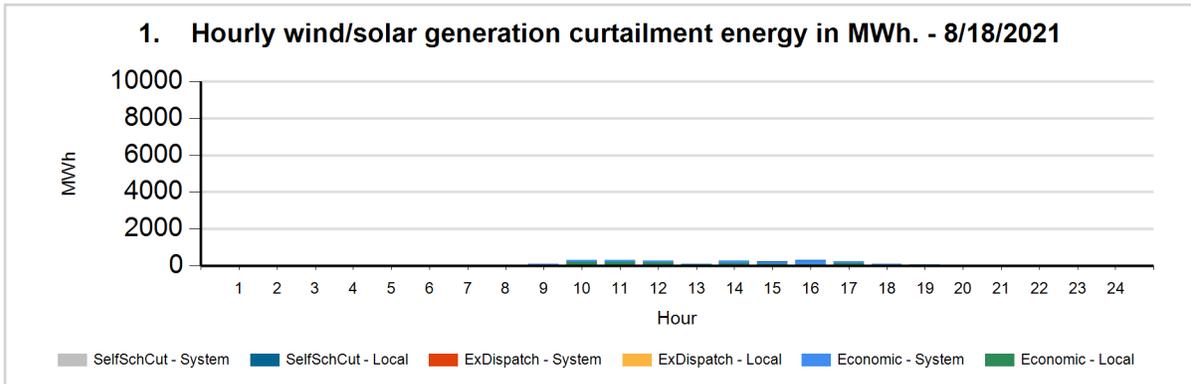
²The Renewables Watch report provides daily actual renewable production within the ISO grid. It is available at: <http://www.caiso.com/green/renewableswatch.html>.

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.

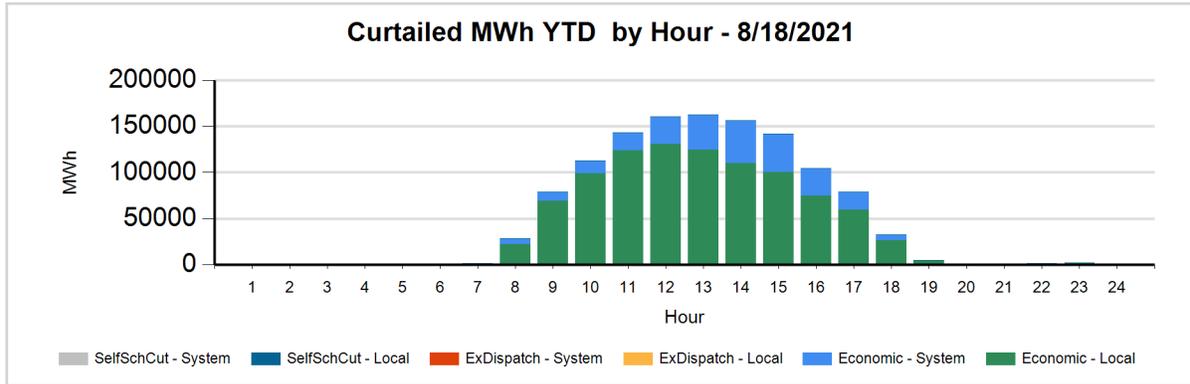
⁴For more information on oversupply conditions, please see:

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

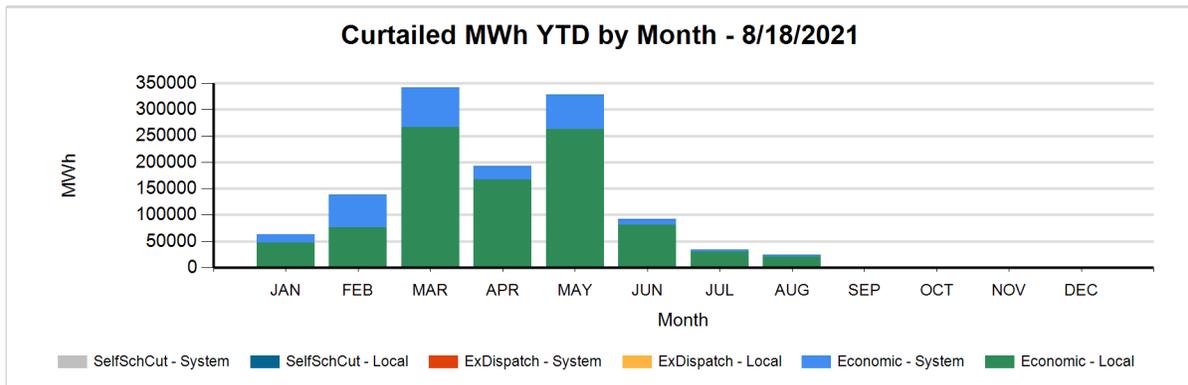
The following charts show the daily and 7-day wind and solar curtailment by category, if any.



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 - 8/18/2021
LocalEconomic	949,704
LocalSelfSchCut	5,118
SystemEconomic	258,218
TOTAL	1,213,040

Data used to produce hourly chart

DATE	HOUR	CURT TYPE	REASON	FUEL TYPE	CURTAILED MWH	CURTAILED MW
08/18	7	Economic	System	SOLR	2	13
08/18	8	Economic	Local	SOLR	7	
08/18	8	Economic	System	SOLR	11	46
08/18	9	Economic	Local	SOLR	32	57
08/18	9	Economic	Local	WIND	5	
08/18	9	Economic	System	SOLR	9	100
08/18	9	Economic	System	WIND	38	99
08/18	10	Economic	Local	SOLR	172	273
08/18	10	Economic	Local	WIND	19	
08/18	10	Economic	System	SOLR	14	
08/18	10	Economic	System	WIND	90	119
08/18	11	Economic	Local	SOLR	188	195
08/18	11	Economic	Local	WIND	16	
08/18	11	Economic	System	WIND	93	145
08/18	11	SelfSchCut	Local	SOLR	0	
08/18	12	Economic	Local	SOLR	144	144
08/18	12	Economic	Local	WIND	40	
08/18	12	Economic	System	WIND	83	143
08/18	13	Economic	Local	SOLR	110	96
08/18	13	Economic	System	SOLR	7	77
08/18	14	Economic	Local	SOLR	137	80
08/18	14	Economic	System	SOLR	119	253
08/18	15	Economic	Local	SOLR	91	46
08/18	15	Economic	System	SOLR	146	258
08/18	15	Economic	System	WIND	0	5
08/18	15	SelfSchCut	Local	SOLR	2	20
08/18	16	Economic	Local	SOLR	80	42
08/18	16	Economic	System	SOLR	224	667
08/18	16	Economic	System	WIND	3	28
08/18	16	SelfSchCut	Local	SOLR	7	20
08/18	17	Economic	Local	SOLR	144	205

08/18	17	Economic	System	SOLR	107	138
08/18	18	Economic	Local	SOLR	37	155
08/18	18	Economic	System	SOLR	68	
08/18	19	Economic	Local	SOLR	0	4
08/18	19	Economic	Local	WIND	47	
08/18	19	Economic	System	SOLR	7	90
08/18	19	Economic	System	WIND	23	90
08/18	21	Economic	Local	WIND	3	27
08/18	21	Economic	System	WIND	3	
08/18	22	Economic	System	WIND	1	14
08/18	23	Economic	Local	WIND	11	78
08/18	23	Economic	System	WIND	9	
08/18	24	Economic	System	WIND	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.