

Wind and Solar Curtailment June 19, 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.

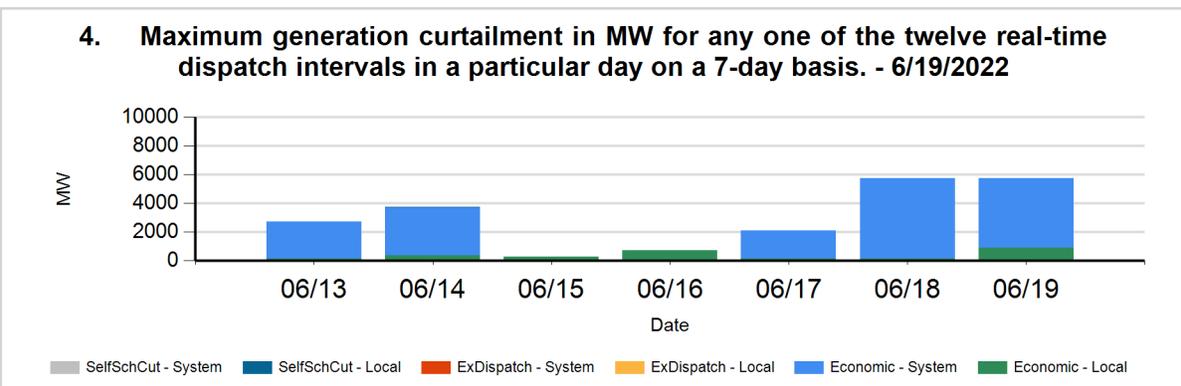
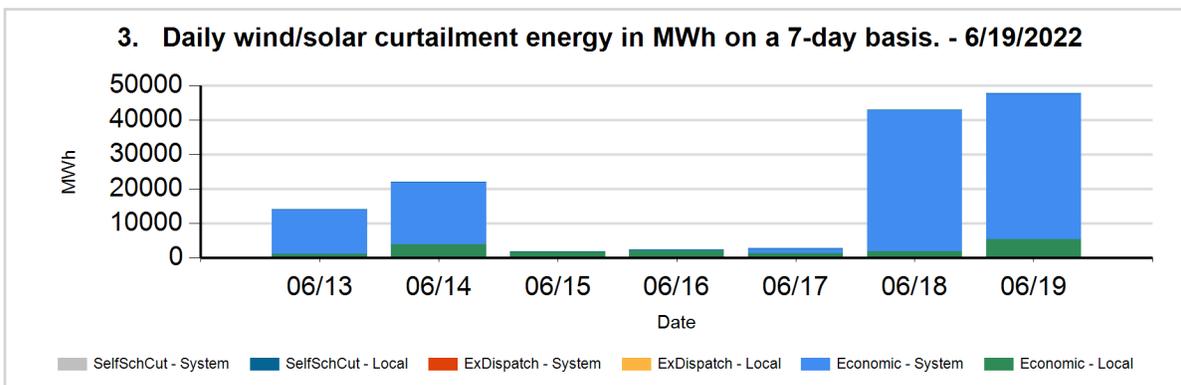
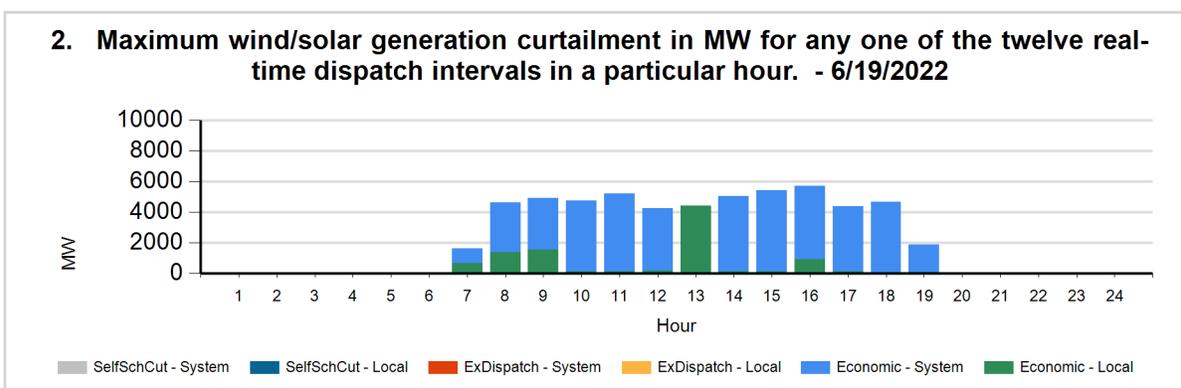
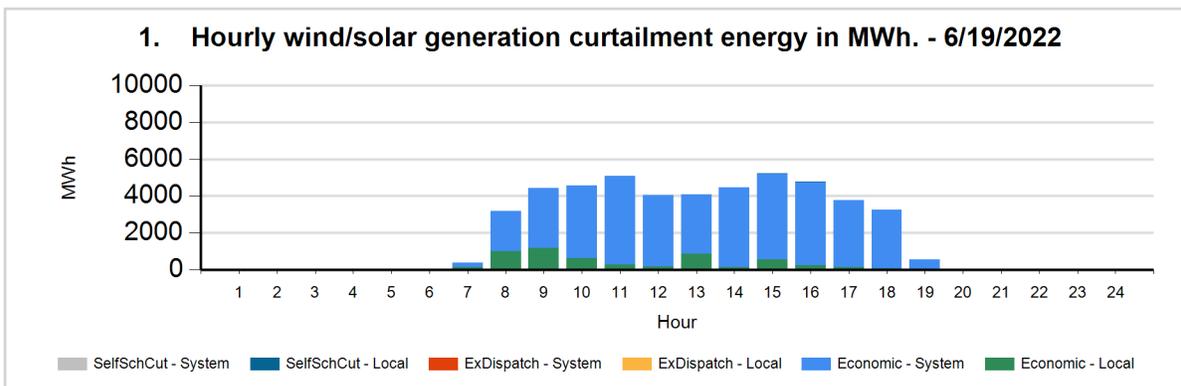
¹Only wind and solar resources can be reported in this manner because these resources have a forecast. Curtailment is defined as the difference between actual production and the forecast when actual production is less than the forecast.

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

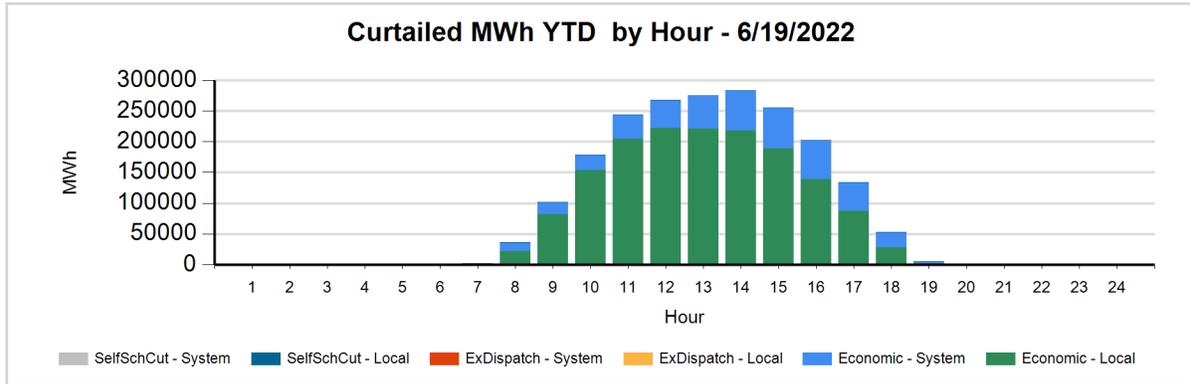
³Congestion occurs when available, least-cost energy cannot be delivered to some loads because transmission facilities do not have sufficient capacity to deliver the energy.

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

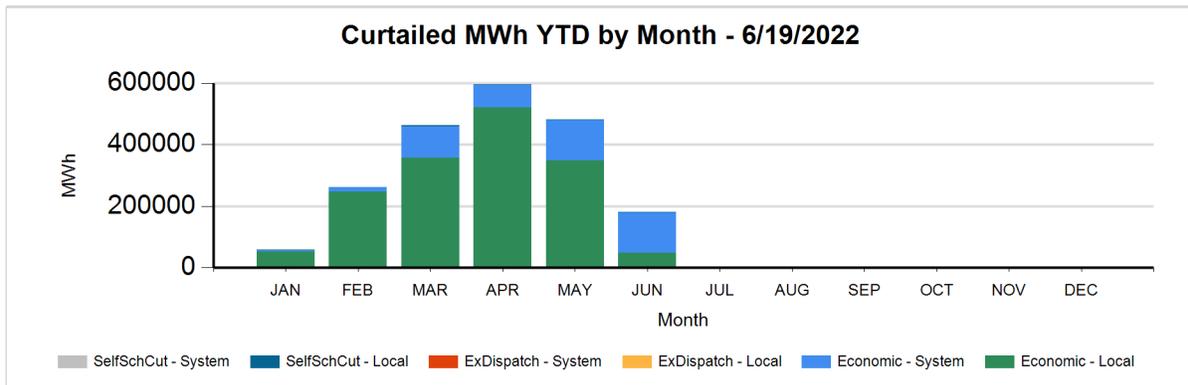
The following charts show the daily and 7-day wind and solar curtailment by category, if any.



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 - 6/19/2022
LocalEconomic	1,570,572
LocalSelfSchCut	5,062
SystemEconomic	466,162
TOTAL	2,041,797

Data used to produce hourly chart

DATE	HOUR	CURT TYPE	REASON	FUEL TYPE	CURTAILED MWH	CURTAILED MW
06/19	7	Economic	Local	SOLR	144	639
06/19	7	Economic	Local	WIND	2	7
06/19	7	Economic	System	SOLR	241	972
06/19	7	Economic	System	WIND	6	13
06/19	8	Economic	Local	SOLR	1002	1352
06/19	8	Economic	Local	WIND	9	9
06/19	8	Economic	System	SOLR	2124	3170
06/19	8	Economic	System	WIND	57	116
06/19	9	Economic	Local	SOLR	1121	1482
06/19	9	Economic	Local	WIND	49	78
06/19	9	Economic	System	SOLR	3211	3290
06/19	9	Economic	System	WIND	57	77
06/19	10	Economic	Local	SOLR	581	134
06/19	10	Economic	Local	WIND	22	
06/19	10	Economic	System	SOLR	3863	4598
06/19	10	Economic	System	WIND	85	41
06/19	10	SelfSchCut	Local	SOLR	0	
06/19	11	Economic	Local	SOLR	262	125
06/19	11	Economic	Local	WIND	3	
06/19	11	Economic	System	SOLR	4786	5048
06/19	11	Economic	System	WIND	49	54
06/19	11	SelfSchCut	Local	SOLR	0	
06/19	12	Economic	Local	SOLR	155	161
06/19	12	Economic	System	SOLR	3841	4027
06/19	12	Economic	System	WIND	36	50
06/19	13	Economic	Local	SOLR	858	4321
06/19	13	Economic	Local	WIND	13	92
06/19	13	Economic	System	SOLR	3199	
06/19	13	Economic	System	WIND	28	
06/19	14	Economic	Local	SOLR	139	131
06/19	14	Economic	System	SOLR	4276	4883

06/19	14	Economic	System	WIND	47	15
06/19	15	Economic	Local	SOLR	539	138
06/19	15	Economic	Local	WIND	10	
06/19	15	Economic	System	SOLR	4574	5127
06/19	15	Economic	System	WIND	111	166
06/19	15	SelfSchCut	Local	SOLR	1	
06/19	16	Economic	Local	SOLR	253	897
06/19	16	Economic	Local	WIND	0	3
06/19	16	Economic	System	SOLR	4390	4543
06/19	16	Economic	System	WIND	125	276
06/19	16	SelfSchCut	Local	SOLR	2	
06/19	17	Economic	Local	SOLR	120	126
06/19	17	Economic	System	SOLR	3555	4138
06/19	17	Economic	System	WIND	78	133
06/19	17	SelfSchCut	Local	SOLR	0	
06/19	18	Economic	Local	SOLR	54	4
06/19	18	Economic	System	SOLR	3078	4329
06/19	18	Economic	System	WIND	108	325
06/19	19	Economic	Local	SOLR	36	79
06/19	19	Economic	System	SOLR	487	1749
06/19	19	Economic	System	WIND	17	44
06/19	20	Economic	Local	SOLR	1	5
06/19	20	Economic	System	SOLR	0	

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.