



Gridmetrics®, Inc.
Louisville, CO
<http://www.gridmetrics.com>

For custom reports:
info@gridmetrics.com

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Gridmetrics PENS

Power Event Notification System

USNG = US National Grid 1km x 1km cell

Outage event: involves at least two Gridmetrics sensors in the same or adjacent USNG cells

Aggregated measurements collected from 300,000+ power sensors every 5 minutes

Gridmetrics PENS-ORSQ

Outage Index: 1 minus the fraction of sensors with power outage

Reliability Index: derived from probability with confidence that sensors are within $\pm 6\%$ of reference voltage

Stability Index: 1 minus the standard deviation from reference voltage

Quality Index: measure of deviation from reference voltage

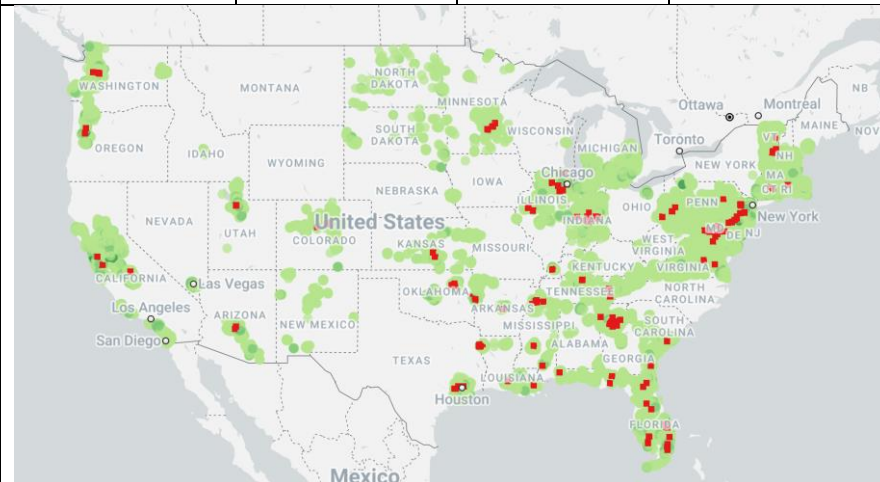
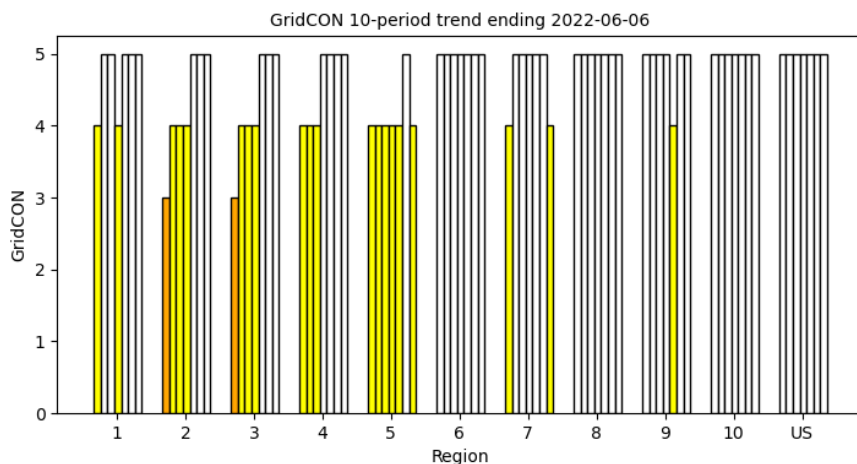
O, R, S, Q calculated for this day's data and compared to historical national values

Daily GridCON
Report for
2022-06-06

5

1 = Severe
2 = Significant
3 = Strained
4 = Slight
5 = Standard

Region	Approx % Population Covered	% USNGs with Outages	Number of Outages	Potential Population Impacted	Outages	Reliability	Stability	Quality	GridCON
1: CT MA ME NH RI VT	74.4	0.2	256	28,358	5	5	5	5	5
2: NJ NY	18.7	0.8	164	9,357	4	5	5	5	5
3: DC DE MD PA VA WV	78.7	0.4	1,269	120,960	5	5	5	5	5
4: AL FL GA KY MS NC SC TN	39.0	0.8	1,162	197,322	4	5	5	5	5
5: IL IN MI MN OH WI	46.7	0.6	740	163,289	5	4	5	4	4
6: AR LA NM OK TX	31.2	0.9	383	119,459	4	5	5	5	5
7: IA KS MO NE	17.8	0.7	48	6,501	4	4	5	5	4
8: CO MT ND SD UT WY	67.7	0.5	157	28,080	5	5	5	5	5
9: AZ CA HI NV	49.1	0.3	263	63,954	5	5	5	5	5
10: AK ID OR WA	61.6	0.4	127	17,735	5	5	5	5	5
Combined Coverage	45.4	0.5	4,569	755,015	4	5	5	5	5



[Click here for the day's outage PENS-Playback.](#)

