

UNMATCHED ADVANTAGES



Market-ready early warning system for the broader infrastructure community



Able to be used by both cybersecurity and operating engineers to protect IT and OT systems against unknown, emerging threats



Combined IT/OT deep packet processing provides cyber/physical threat intelligence for swift action



Elevates cyber awareness for coordinated response for internal and external stakeholders via secure information sharing techniques



Cost-effective and sustainable for all utilities—4 to 5 times less costly than similar technology

A Proven, Industry-Ready Solution

Essence 2.0 is a proven, industry-ready solution to enhance America's cybersecurity posture. The technology is used by cybersecurity teams and operating engineers to protect key systems against unknown, emerging threats.

It is both a "black box" sensing technology that measures the continuous behavior of OT and grid physics data and a visualization and monitoring tool that allows utilities to interact with data and receive immediate notice of anomalous issues that could indicate a breach.

Essence 2.0 continuously assesses the electric grid for anything out of the ordinary. It provides real-time indicators when unusual circumstances are detected, which allows for prompt decision-making to counter the threat.

NRECA has implemented the technology at strategic electric co-op partners and is scaling the initiative to 55 additional cooperatives and other utilities. Utilities are strategically chosen to advance specific objectives and represent a cross-section of the marketplace while providing the greatest impact on coverage and protection.

Essence 2.0 allows us to focus on the data points that matter in a timeframe that allows us to act quickly - protecting our infrastructure from dangers on the network.

— Don Bowman
Vice President-Engineering and Operations
Wake Electric Cooperative



Many cybersecurity breaches camp out on a system for months before they are identified and mitigated. **Essence 2.0 accelerates our detection and mitigation action from months to seconds.** It also provides specificity to enable immediate actions for isolation and defines characterization of the breach for sharing with others to determine if there may be a larger coordinated attack by adversaries.

