



OPSWAT.

CASE STUDY

Guarding the Grid to Keep Power Going Using MetaDefender Fend Data Diodes

Power plants need to monitor their equipment health to ensure they are bringing the most reliable, efficient and affordable electricity to their household and businesses customers. However they have long been the target of cyber attackers who seek to disrupt the energy sector supply chain. Today, electric utilities and power plants, count on Fend's data diode technology for real-time data and security that guards the grid to keep our power and economy going.

Protecting Connected Critical Infrastructure for Enhanced Operational Readiness

In 2021, unexpected cold weather impacted the ability of a power generation facility in the southern US to reliably deliver electricity to thousands of customers when a critical operations piping system froze. Extreme low temperatures impacted water piping infrastructure that the power producer relied on to for electric generation, destabilizing power production and posing risks to plant operations and safety. Today, the company trusts Fend's one-way data diodes to send real-time information from previously isolated water systems to the power plant's industrial control system (ICS) to enable plant operators to mitigate risks to the system as well as gain efficiencies through predictive maintenance. The client was able to safely integrate the operational data into its ICS while reducing threat vectors. With Fend, the client now has the real-time analytics they need to prevent operational disruption from climate impacts or 3rd party attacks and predict problems before they occur to keep the power flowing.

**Monitor Equipment from Anywhere while Blocking Cyber Threats
to Stay Ahead of Emergencies**



Power Plant
Control Systems



MetaDefender Fend
Data Diode



Real-Time
Analytics

The Next Level of Cyber Security for Power Plants and Electric Providers

For many years, one-way communication diodes (data diodes) were priced too high for energy suppliers. Now, the same class of technology that protects nuclear reactors and oil refineries is affordable for electric, coal fire, gas and hydro-electric plants and the rest of the supply chain, allowing real-time analytics that protect the electrical grid, operational networks and assets from climate impact and attackers. Whether you're making upgrades to winterize your plant, to improve visibility, or comply with regulations, Fend data diodes add an extra layer of physical security that blocks 100% of all inbound traffic and requires no security patches or maintenance, offering the same level of security as a physical air gap for remote access without the vulnerabilities.

Learn about OPSWAT's Data Diodes – Made in the USA

Learn more about the power of OPSWAT's American-made Fend data diodes and enterprise cloud technology. Get product specifications at www.fend.tech/products.

For More Information:

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CISA Recommends One-Way Data Diodes

With the [AA22-083A advisory](#) in March 2022, CISA called for network segmentation in the industrial control systems environment and control system hardening as Mitigation of Cyber Threats from foreign threat actors.

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