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Eversource Wins 2025 AEIC Achievement Award for Smart Detection, Safer Grid Project

AI-Powered High Pressure Fluid Filled Monitoring System enhances operational efficiency and environmental protection

Hartford, CT— November 6, 2025 — The [Association of Edison Illuminating Companies](#) (AEIC), the electric utility industry’s leading authority for operational excellence, announced today that [Eversource Energy](#) has received one of the Association’s 2025 Achievement Awards.

The AEIC Achievement Awards are presented annually to member companies who have clearly demonstrated significant contributions to advancing operational excellence in the electric utility industry.

Eversource Energy was recognized for Smart Detection, Safer Grid: Eversource’s AI-Powered High Pressure Fluid Filled (HPFF) Monitoring System.

The HPFF system utilizes cables which are insulated by a high-pressure dielectric fluid that enhances electrical insulation and aids in heat dissipation. Despite its advantages, the HPFF system suffers from the risk of fluid leaks, which could pose significant environmental hazards. Detecting these leaks presented a formidable set of challenges that led Eversource to develop an innovative, AI-powered monitoring system for its High-Pressure Fluid Filled (HPFF) transmission lines. This in-house, cost-effective solution combines machine learning, pressure-derived pump start analysis, and real-time dashboards to detect fluid leaks significantly faster - reducing detection time from days to hours, enhancing operational efficiency and environmental protection.

“The core achievements of our project include innovative use of pressure variation data, machine learning-based dynamic threshold setting, development of a comprehensive visualization dashboard, and dramatic reduction in leak detection time,” said Eversource Senior Vice President of Engineering Digaunto Chatterjee. “Together, these achievements signify a transformative approach to managing HPFF system integrity, combining data-driven insights with advanced analytics and machine learning to safeguard environmental and operational assets.”

The HPFF leak early detection project has not only driven substantial operational improvements within Eversource but has made a measurable impact across the utility industry and has influenced other utilities to explore their own data for similar tools.

“As utilities around the world are challenged by aging infrastructure and increasing environmental expectations, the HPFF early leak detection project represents a scalable and actionable solution that is a model for others to follow,” said Steve Hauser, CEO, AEIC. “The system’s combination of machine learning, real-time data integration, and intuitive visualization has become a benchmark for how data science can be applied in power systems to enhance reliability, reduce risk, and support sustainability goals.”

Eversource was presented with the award on Friday, November 6th at AEIC’s 141st Annual Meeting in Charleston, SC. To see a full list of 2025 AEIC Achievement Award recipients, visit <https://aeic.org/achievement-awards/>.

About AEIC

AEIC brings together the electric utility industry’s leading operations experts to rise to challenges, accelerate opportunities, and achieve excellence in all aspects of generation, transmission, distribution, and storage of electric power for the benefit of its members, the industry at large, and consumers, worldwide.

Founded by Thomas Edison and his associates in 1885, AEIC is the electric utility industry’s longest-serving and preeminent association. Today, AEIC’s members work closely together to share knowledge and provide guidance to the



industry essential to achieving a modernized grid that delivers a secure energy future for all. To learn more about AEIC, its technical committees, and member companies, visit <https://aeic.org/>.

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