

# USEA Enhances Grid Resilience Through Advanced Cyber Simulation Training



The United States Energy Association is strengthening grid resilience in Vietnam, Central Asia, and Latin America and the Caribbean by enhancing the ability of electric utilities to prevent and respond to cyberattacks. USEA delivered cutting-edge SIM-X cybersecurity training to help utilities safeguard their power systems and ensure reliable electricity service.

The energy sector's rapid digitalization has improved efficiency and connectivity but also exposed power systems to new risks. Smart grids and smart devices provide attackers with more opportunities to exploit vulnerabilities. This makes it crucial for utilities to strengthen their defenses and ensure grid resilience.

To address these challenges, the United States Energy Association (USEA) partnered with Incremental Systems Corporation (IncSys) to deliver a series of virtual cybersecurity simulation trainings in Vietnam, Central Asia, and Latin America and the Caribbean.

At the heart of this initiative is SIM-X, IncSys's innovative, real-time training platform that places utility operators, IT specialists, and cybersecurity professionals in attacker and defender roles. These immersive simulations allowed participants to identify vulnerabilities in transmission systems, observe the potential consequences of cyberattacks, and devise strategies to protect their grids from disruptions.

Ninety-two participants successfully completed the SIM-X program and earned Institute of Electrical and Electronics Engineers (IEEE) certifications, equipping them with

practical, hands-on experience in detecting, preventing, and responding to cyber threats. Utilities in participating countries are now better prepared to protect critical infrastructure and maintain reliable grid operations under evolving cyber challenges by translating knowledge into action.

Through these trainings, USEA has strengthened the resilience of its partner countries' grids, ensuring that they can withstand and recover from cyber incidents while continuing to deliver secure, reliable power to their communities and economies.