



THE CARDINAL ACADEMY OF DIGITAL SECURITY AND EDUCATION (CADSE) PRESENTS:

THREE TREES AND A COMPUTER BUG: IMPLICATIONS FOR GRID CYBERSECURITY



How Small Vulnerabilities
Trigger Large-Scale Failures



Cybersecurity's Critical Role
in Power Grid Resilience



The Rising Complexity of
Grid Operations



Modern Solutions for Preventing
Future Blackouts



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Eric Miller leads cybersecurity and security operations at MISO, powering electricity for 45 million people. Inspired by the August 14, 2003 blackout, he focuses on improving grid resilience. With experience in healthcare, manufacturing, and the U.S. Army, he's also an open-source software author and serves on boards of MRO and NERC. Eric holds advanced cybersecurity certifications (CCSP, CISSP) and degrees in business and systems engineering from Bowling Green State University and Johns Hopkins University.

In this talk, we will learn valuable lessons from the biggest blackout in North American history on August 14, 2003, which was triggered by overgrown trees and a computer bug vulnerability, and how these lessons shaped modern grid cybersecurity and resilience.



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