

A Comparative View of Cybersecurity Approaches in the Natural Gas & Electric Sectors – Natural Gas Utility Perspective

NARUC Webinar
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Natural Gas Utility Cybersecurity

- **Perspective**
 - Threat Landscape
 - Current Trends
 - Compare & Contrast
- **Strategy**
 - Cybersecurity Assessment
 - Education & Awareness
 - Partnership

Threat Landscape & Current Trends



Compare & Contrast



Compare & Contrast

SIMILARITIES

- Deliver commodity directly into customers' homes and businesses
- Belong to larger Energy Sector
- Depend on SCADA and CS for improved system awareness and reliability

Compare & Contrast

DIFFERENCES

- Fundamental Difference
- Transportation
- Physical Properties
- Operations
- Grid
- System Diversity

Strategy

- Cybersecurity Assessment
- Education & Awareness
- Partnership



Strategy

NATURAL GAS UTILITY CYBERSECURITY ASSESSMENT

- AGA ONG C2M2 Regional Workshops
- TSA Pipeline Security Guidelines
- NIST Cybersecurity Framework
- AGA Risk Taxonomy Workshop
- AGA Cyber Threat Analysis Workshop

Strategy

EDUCATION & AWARENESS

- *Commitment to Cyber & Physical Security*
- *Cyber Threat Analysis - Elements & Mitigations*
- DNG ISAC
- Cybersecurity Procurement Language Tool
- Tabletop Exercises
- *Energy Delivery Cybersecurity Executive Summit*
- Insider Threat
- Topical Webinars – Shodan, Quantum Computing, Cybersecurity Activity Year in Review and Predictions

In the works,

- Cyber Mutual Assistance Program
- Gas Control Cybersecurity

Strategy

PARTNERSHIP

- **ONG Subsector Coordinating Council**
 - Downstream Energy Coordination
 - Electricity Subsector Coordinating Council
 - Electric Infrastructure Security Council
- **Edison Electric Institute**
- **Federal and State Governments**
 - NARUC
 - DHS
 - TSA
 - DOE
 - FERC
 - NERC



The American Gas Association, founded in 1918, represents more than 200 local energy companies that deliver clean natural gas throughout the United States. There are more than 73 million residential, commercial and industrial natural gas customers in the U.S., of which 95 percent — more than 69 million customers — receive their gas from AGA members. Today, natural gas meets more than one-fourth of the United States' energy needs.

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