

You Can't Do It Alone

The Power of Collaboration

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Discussion

- A few common themes between the electrical power and the oil & gas sectors
- The evolution of cybersecurity collaboration within the oil & gas sector
- Lessons learned on the collaboration journey

Oil & Gas and Electrical Power Sectors

- A few things in common:
 - Critical infrastructure
 - Economic disruption
 - Widespread geographical distribution
 - Long-lived assets
 - Supply chain management

American Petroleum Institute

Information Technology Security Sub-Committee

- Established to provide a forum for sharing of best practices and knowledge
- Membership - API Members only
- Established 2001
- Meets quarterly

American Petroleum Institute

Information Technology Security Sub-Committee

- Value Proposition
 - Supports API government affairs efforts to provide input on potential security legislation/regulation
 - “Elevate the Industry”
 - Networking between members
 - Benchmarking project
 - ITSS Security Conference
 - Legal briefings – data privacy & security

LOGIIC

Linking the Oil and Gas Industry to Improve Cybersecurity

- Collaborative research and development projects to improve the level of cybersecurity in critical systems of interest to the oil and natural gas sector.
 - Focus on process control systems
 - Vendor involvement
- Partnership with DHS Science & Technology Directorate
- Limited Membership
- Cost sharing by members & DHS
- Established 2004

LOGIIC

Linking the Oil and Gas Industry to Improve Cybersecurity

Value Proposition:

- Completed Projects (sampling)
 - Correlation of anomalous events
 - Application whitelisting
 - Safety instrumented system & process control networks integration
 - Policy, standards & controls
- Knowledge and financial leverage
 - Expansion of networks at many levels
 - Vendors gain insight into member concerns
 - Potential to influence vendor products
 - Access to government experts & resources

Oil & Gas Benchmark Group

- Initially focused on understanding the “cost of security”, charter evolved into benchmarking ISO 27001/2 compliance model.
- Established 2011
- Limited membership
- Low meeting frequency
- Cost-sharing

Oil & Gas Benchmark Group

- Value Proposition
 - Useful comparison against peer group
 - Can more effectively direct limited resources into higher risk environments

O & G Threat Intelligence

- Objective is to share, on a real-time basis, threat intelligence info for analysis by the members
- Cost sharing
- Restricted membership
- Restricted access to database

Oil & Gas Threat Intelligence

- Value proposition:
 - Relationship building with peer group
 - Timely information regarding threats

Lessons Learned

- Well-defined charter with clear roles, responsibilities & deliverables
- Need vs. want
- No one can lose
- Ensure all members have “skin in the game”
- Sharpen your conflict resolution tools
- Who’s your advocate?

In summary....

- Leverage
 - Financial
 - Vendor relationships
 - Knowledge transfer
 - Legislation & Regulatory
- Peer group insight & relationships
- Enhanced security profile