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