



National Electric Sector  
Cybersecurity Organization

# Securing The Smart Grid

February 7 2012 Webinar  
Pike Research

# Smart Grid Security Challenges



- Privacy

- Tinfoil hat club vs Kool-Aid club



<http://goo.gl/lpcQs> <http://goo.gl/LtG6k>

- Security

- Crypto, patching, comms, isolation, physical
- “Attack surface” and hyperembeddedness

- Inconsistency

- Distribution or Transmission first?
- Innovation or security first?

# Smart Grid Security Solutions



- Many “bolt-on” options, not enough “baked-in”
- Missing or incomplete solutions:
  - Anti-X
  - Integrity assurance
  - Whitelisting
- Not all vendors are created equally
- Consider using IEC 62443 or DHS/MS-ISAC SCADA Procurement Language



<http://goo.gl/wxB61>

# Smart Grid Regulation



- Interoperability
- Demarcation
- State vs. Federal authority
- FERC position
- NERC position
- Standard fatigue



<http://goo.gl/Whvuc>



<http://goo.gl/laO85>