

# Panel: Government and Industry Experts Discuss the Proposed Global Strategy



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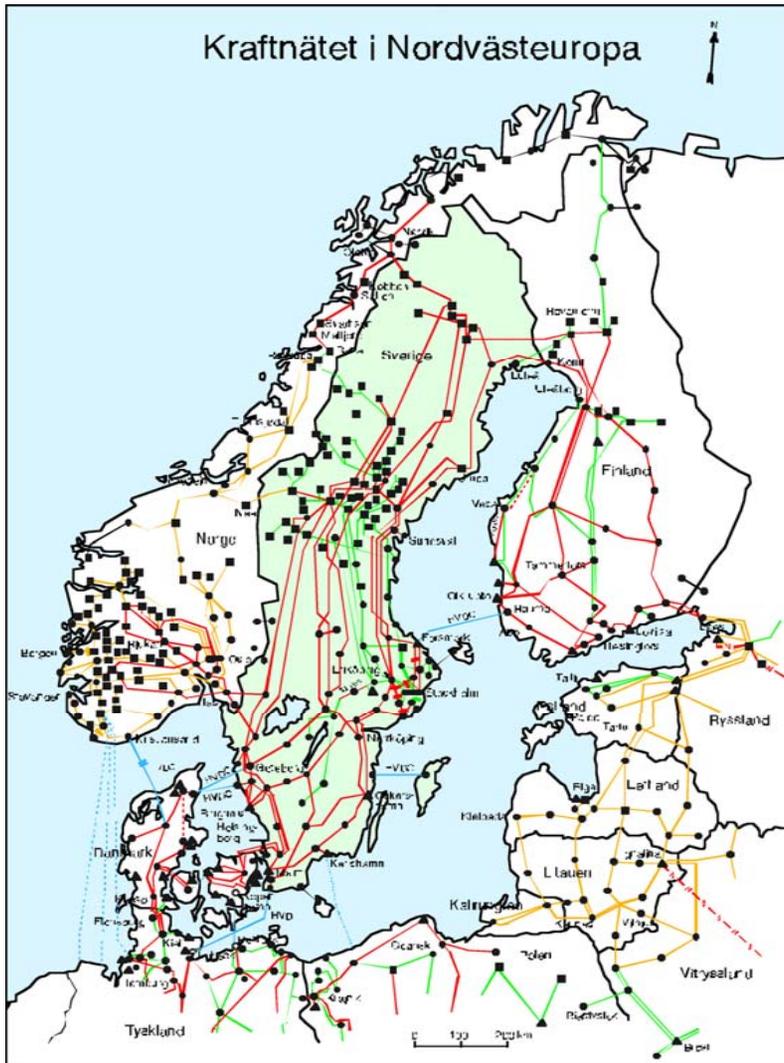
**SANS SCADA EU Summit**

**Amsterdam, The Netherlands**

# Biography – Göran Ericsson

- **Manager IT Security Swedish National Grid**
- **PhD from KTH-Royal Institute of Techn, Stockholm**
- **Chairman WG D2.22 on Information Security in CIGRÉ (International Council on Large Electric Systems)**
- **IEEE**
  - **Senior Member Power Engineering Society**
  - **Involved in Power System Communications Committee**
- **Has published >30 papers in international forums, both within and outside IEEE. Mostly utility perspective:**
  - **Information Security for Power Control Systems**
  - **Power System Communications**

# Swedish National Grid (Svenska Kraftnät)



- Svenska Kraftnät is a public utility
- Our core business is power transmission on the national level 220kV, 400kV
- 16,000 km power lines
- Interconnections w/ Norway, Finland, Denmark, Poland, and Germany
- Svenska Kraftnät has provided telecom network services to external customers since 1994
- Optical fiber network 8,000 km WRAP, OPGW

# Cyber security – a new issue

- Security is a new, always on-going issue that needs to be taken care of
- Awareness
- Fully support from top management
  - Speak the language that gets and retains corporate attention
    - "Risk management", "Governance" etc.,
    - not "Firewalls", "Encryption" etc.
  - Therefore has a better chance of getting budget
- Resources (both at utilities and vendors)
  - Staffing
  - Money
- Part of daily operation
- Security part of procurement
- Active decisions
- Use country / EU electric power organizations to stress cyber security

# Awareness – is on its way

- **Entire Swedish National Grid**
  - Web-based education
  - Part of incentive program
- **Management**
  - Need for funding
  - Need for staffing!
- **Critical system governance**
  - Importance of following the work processes
  - Importance of good order
- **Cooperation with other companies**

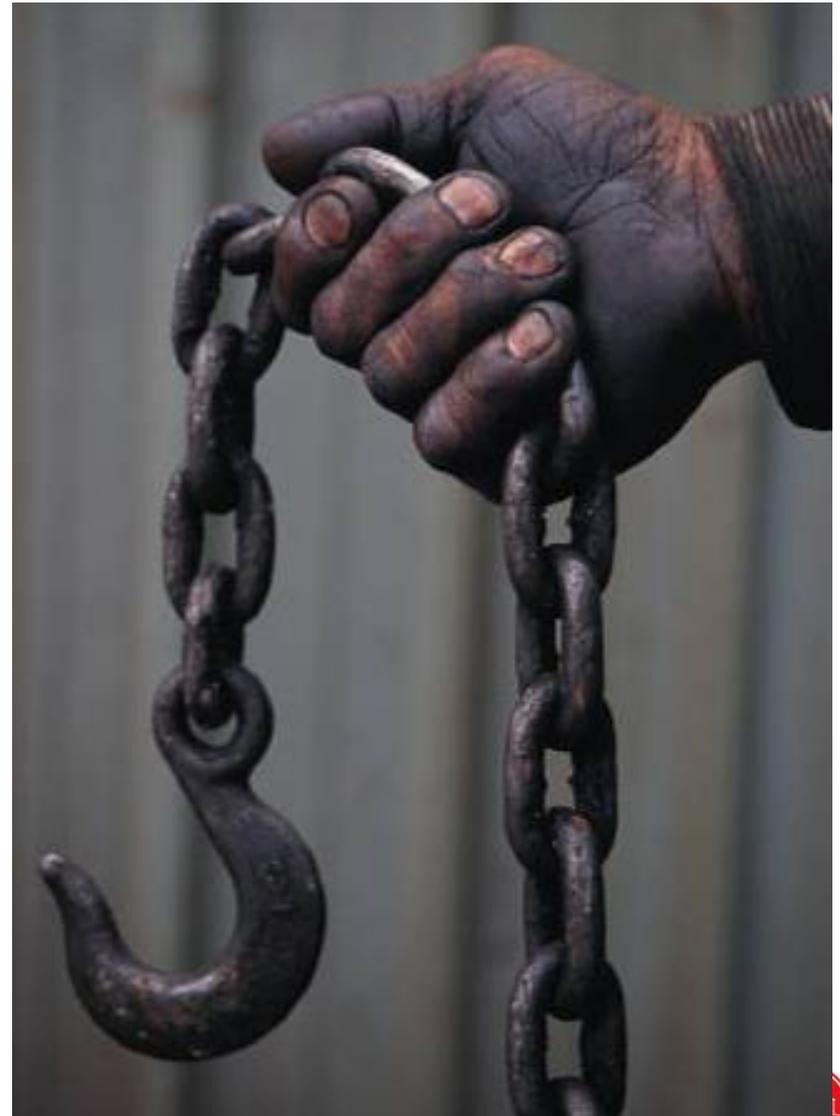
# Sweden: Governmental coordination on SCADA Security

Based on existing organizations, develop existing expertise, coordinate relevant resources, utilize international experience and knowledge.

- Extended cooperation on SCADA security within the government
- Further develop on-going cooperation on SCADA Security between Swedish and foreign authorities
- Raise the awareness on Cyber Security among users and vendors of SCADA systems
- Develop technical and administrative recommendations and guidelines, and participate in international standardization works.

# Securing your operation is hard and continuously on-going work

- Include in daily operation
- Learn from other people's mistake
- You don't have time nor money to do them yourselves
- *Cyber Security here to stay*



# Questions?