Energy security and resilience Electricity TSO perspective

Rolands Irklis, CEO
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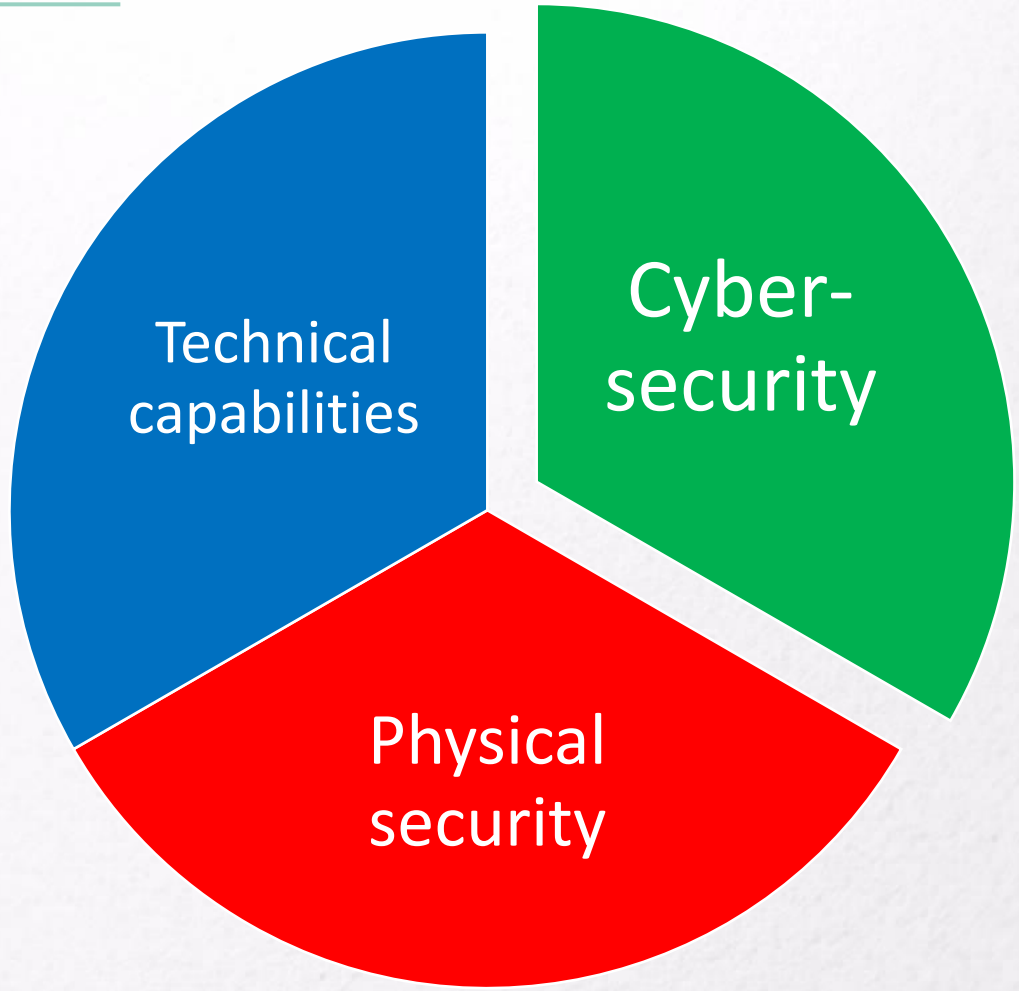
SECURITY AND RESILIENCE DIMENSIONS



TECHNICAL CAPABILITIES

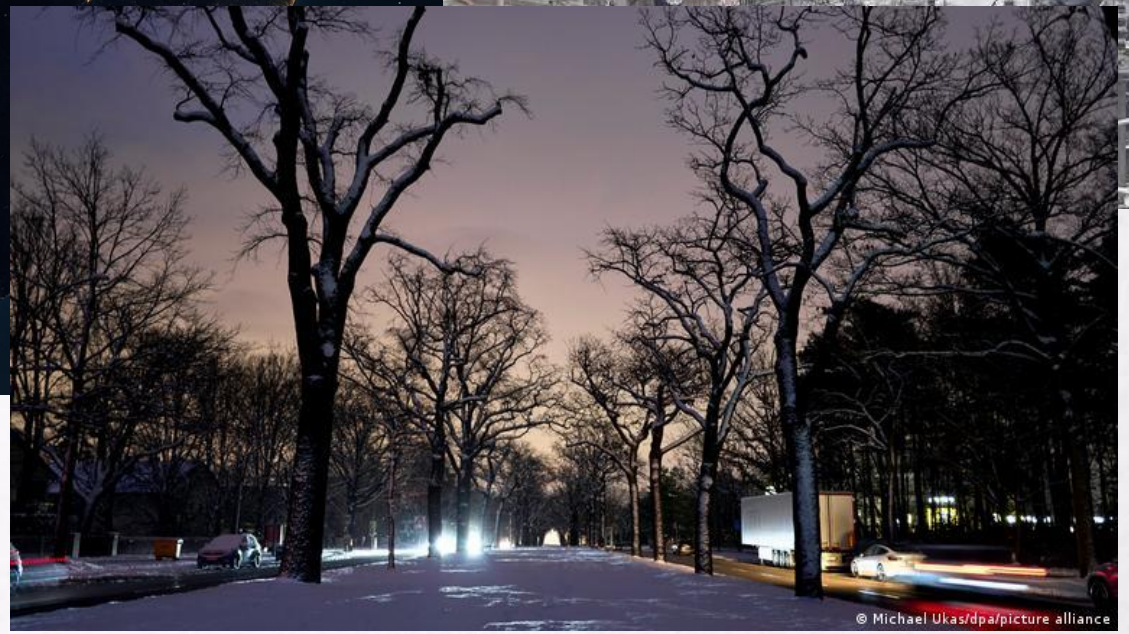
Technology:

- Age and quality of network components
- Layout of network (radial vs mesh)
- Emergency reserves (of components)
- Interconnectivity
- Balancing reserves and flexibility
- Availability of ancillary services
- IT solutions (hardware and software)

Management:

- Maintenance and asset management
- Human resources
- Contractor`s management
- Emergency and crisis management
- Cooperation with DSOs and regional TSOs

IBERIA, HEATHROW, BERLIN



Technology:

- Independent data network
- Selection of technology
- Backup solutions and reserves
- Detection solutions and capabilities
- Protection solutions and capabilities
- **Third party connections to the system (DSOs, generators, big consumers, BESS)**

Management:

- IT asset management
- Supplier management
- IS security procedures
- Tests and audits;
- Cybersecurity monitoring 24/7
- Cooperation with national Cyber Incident Response Institution
- **Third party connection security management**

Technology:

- Surveillance and detection systems (including remotely controlled UAVs)
- Drone detection and anti-drone technologies
- Surveillance and detection combined with analytics (AI)
- Access controls
- Physical protection (fences, walls, antidrone-nets, sandbags)

Management:

- Security analytics
- Risk monitoring and management
- Incident management procedures
- Outsourced security service provider management
- Personnel training
- Cooperation with national police, security agencies and military

THANK YOU!