ECDSO-E and Security of Supply

ECDSO-E meeting, Vienna, 17 April 2018
Security of Supply Coordination Group

Security of Supply

- Treaty – Title III – Article 29: SoS Statements
- Treaty – Title IV – Article 46: Procedural act on mutual assistance

PA 2008/02/MC-ENC

- Establishment of SoS Coordination Group (11 December 2008),
- Electricity SG (2001)
  - EC, Parties (representatives) – EnC-CPs, Title III Countries (voluntary)
  - TSO, local industry – upon invitation (becoming common practice)
  - Industry associations (ENTSO-E, EFET, EURELECTRIC) – upon invitation
  - Meetings – once a year (December), ad hoc / urgency meetings (possibility)
  - Agenda – winter preparedness (review), legal developments (TYNDP, generation adequacy, NC / GL, clean energy package, RES, licensing), security coordination centres, data transparency (ETUG), specific topics and events (market restriction cases, countries in focus)

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ECDSO-E activities in SoS (proposal)

TSO-2-DSO

• Coordination between network layers
  o Structural aspects (definition, integration, compatibility, TPA, network capacity, development planning, network security)
  o Operational aspects (dispatching, balancing, demand management)
  o Data transparency, monitoring, data transfer (channels), smart grid functions

• RES integration
  o RES connection (DSO), dispatching (central), balance responsibility – aggregators, concentrators, prosumers, mandatory buyout, access to market
  o Network services, cross-border trade aspects (congestions, redispachting), end-user supply aspects (curtailment), demand management
  o RES deployment - support mechanisms, VAT, public procurements, licensing
ECDSO-E activities in SoS (proposal)

- Cybersecurity
  - Cyber attacks on electricity networks (successful)
    - Ukraine, December 2015 – three Oblenergo (DSO) systems compromised: Prykarpattya – switched off 30 SS (230,000 citizens) for a period of 6 hours; Chernivtsi and Kiyv to lower extent - imposed vast damage on systems and data
    - Ukraine, December 2016 – 330 kV Transmission SS Kiyv North SCADA system compromised causing blackout for 1/5 of Kiyv demand for one hour – advanced, automated malware, swappable, adaptable and universal, simultaneous threat to multiple systems
  - NIS Directive - (EU) 2016/1148
    - ECS prepared draft adaptation and a Recommendation for application - for the latest PHLG
    - PHLG Conclusion acknowledged the necessity to increase cybersecurity, risk management and reporting capacity – to take steps / discussions for adaptation and prepare a proposal with the appropriate timing
    - PHLG – eliminate regulatory gaps, develop cooperation in cybersecurity

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Risk assessment in energy digitalization

- Proliferation of poorly secured Information and Communication Technology (ICT)
- Blurring lines between state and non-state actors
- Evolving cybercrime business models and groups
- Dependence on foreign security technologies
- Persisting critical infrastructure vulnerabilities
- Cascading effects (automation, standardization)
- Real time and time-critical requirements (RES)
- Cross-border impact
NIS Directive (essentials)

- Build sufficient capabilities at national level
- Identification of operators of essential services and digital service providers to whom security and incident notifications requirements are imposed
- Build structures for cross-border cooperation and exchange of information
- Three cumulative conditions for identification of Operators of Essential Services (OES)
- Security and Notification Requirements imposed on OES
- Monitoring and enforcement powers
NIS Directive (messages)

- Create a Cooperation Group between CPs and MSs
- Security of Supply Coordination Group
- Put in place a common certification framework across the single market
- Eliminate regulatory gaps across the single market
- Join efforts on research and education programmes
- Develop a common crisis management and rapid emergence response, inter alia through Title III or Title IV measures
- Further challenges specific to the energy sector