Cyber security measures in the Energy Community

49th PHLG meeting, Vienna, 26 March 2018
Challenges and threats of digitalisation in the energy sector

- Profileration of poorly secured ICT
- Blurring lines between state and non-state actors
- Evolving cybercrime business models
- Dependence on foreign security technologies
- Persisting critical infrastructure vulnerabilities
- Cascading effects
- Real time requirements
- Cross-border impact
The NIS Directive – the cornerstone of EU response to cyber threats

- **Build sufficient capabilities at national level**
  - Adopt a national NIS strategy
  - Designate national competent authorities, single contact points and Computer Security Incident Response Teams (CSIRTs)

- **Identification of operators of essential services and digital service providers** to whom security and incident notifications requirements are imposed

- **Build structures for cross-boarder cooperation and exchange of information**
  - At strategic level - creating a Cooperation Group of national authorities
  - At operational level - creating a network of national CSIRTs
Three cumulative conditions for identification of Operators of Essential Services (OES)

- provision of a service which is essential for the maintenance of critical societal and/or economic activities
- the provision of that service depends on network and information systems
- an incident would have significant disruptive effects on the provision of that service

Security and Notification Requirements imposed on OES

- take appropriate technical and organizational measures (to secure networks and systems, prevent and manage risks, handle incidents, minimize their effects)
- notify incidents (users affected, duration, geographical spread)

Monitoring and enforcement powers

- competent authorities vested with powers and means to assess compliance of OES with the requirements and impose sanctions
The NIS Directive in the Energy Community

- The energy sector falls within the scope of the NIS Directives
- Annex II enumerates potential OES of the energy sector
  - electricity subsector - (i) suppliers of electricity; (ii) distribution system operators; (iii) the transmission system operators.
  - gas subsector - (i) supply undertakings, (ii) distribution system operators; (iii) transmission system operators; (iv) storage system operators; (v) LNG system operators; (vi) natural gas undertakings and operators of natural gas refining and treatment facilities.
  - oil subsector - (i) operators of oil transmission pipelines; (ii) operators of oil production, refining and treatment facilities, (iii) storage and (iv) transmission
- Interdependencies with other sectors – new actors involved
- A governance framework for the Energy Community context
  - Two alternatives
    a) a centralized model with one central authority being competent across all sectors and services
    b) a decentralized model with multiple sector-based authorities being competent for specific sectors and services
- Security of Supply Coordination Group - intergrade a cyber security dimension
**Necessity for additional measures**

**EU September 2017 package on Cyber Security**

### Building EU Resilience to cyber attacks
- Reformed ENISA
- EU cybersecurity Certification Framework

### Creating effective EU cyber deterrence
- Identifying malicious actors
- Stepping up the law enforcement response

### Strengthening international cooperation on cybersecurity
- Promoting global cyber stability and contributing to Europe’s strategic autonomy in cyberspace
- Strengthening cyber dialogues
- Modernising export controls, including for critical cyber-surveillance technologies
- Continue rights-based capacity building model
- Deepen EU-NATO cooperation on cybersecurity, hybrid threats and defence

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Energy Community Secretariat
Vienna, 26 March 2018
Cooperation structures between EU and EnC

- 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
- Etc..
Thank you for your attention!

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