

Agenda

- 1. Introduction
- 2. Overview of project objectives and progress
- 3. Methodology and Next steps

Year 2018 in EU Cyber Security

ENISA Threat Report

"2018 was a year that has brought significant changes in the cyberthreat landscape. Those changes had as source discrete developments in motives and tactics of the most important threat agent groups, namely cyber-criminals and state-sponsored actors."



Source: ENISA Threat Landscape Report 2018, 15 Top Cyberthreats and Trends, FINAL VERSION 1.0 ETL 2018, JANUARY 2019

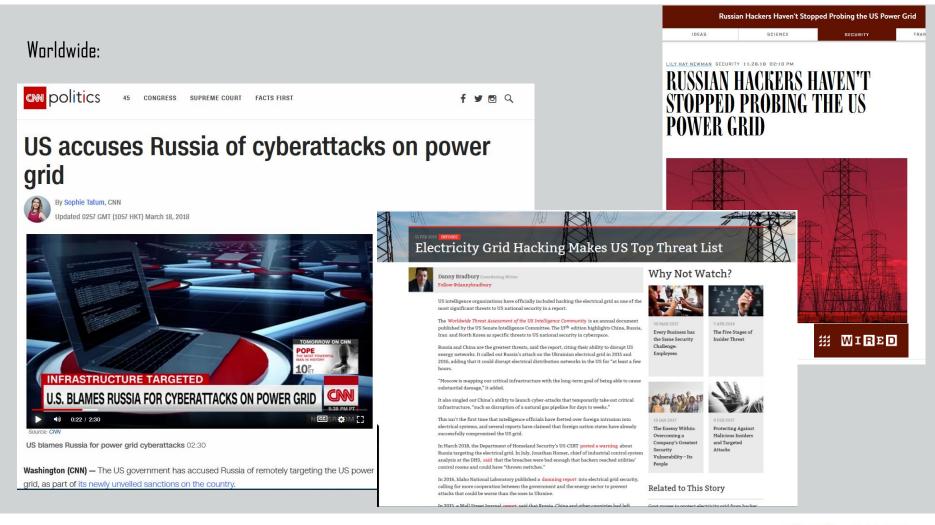
Cyber threats in energy systems

Security challenges in the energy sector

- Moving towards interconnected, digitalized and decentralized systems
- Proliferation of highly interactive but poorly secured ("user friendly") information and communication technologies
- Dutsourcing and renting of infrastructures and services
- Increased interdependency and exchange of data among market players
- Protection concepts and design rules of energy facilities not adequate to modern threats
- Dependence on foreign technologies (integrity and compatibility of components)
- Cross-border interconnected energy network the "weakest link" and "cascade" effects
- Constraints imposed by security measures in contrast to real-time-availability requirements
- Availability of human resources and their competences
- Evolving cybercrime business models, growing powers / interests of cybercrime communities
- Diverse ownership structures and related rights and decisions



Threat Landscape of EnC Member States



Study project of Energy Community

Study on Cybersecurity in energy

- Objectives:
 - Identify and assess key weaknesses, risks and exposure to cyber threats in the energy systems
 - Identify the existing regulatory framework and regulatory gaps for cybersecurity governance
 - Identify the relevant provisions of the NIS Directive and the Directive on European critical infrastructure and provide an impact assessment of their implementation in the Energy Community
 - Propose the necessary measures to improve cybersecurity in Contracting Parties (national level)
 - Propose a model for regional cooperation in managing cybersecurity risks and reporting incidents as well as a common cooperation
 platform, common certification framework and common framework for research, education and training programmes
 - Explore the possibility for the participation of Contracting Parties in the work of the European Union Agency for Network and Information Security (ENISA).

Study project of Energy Community

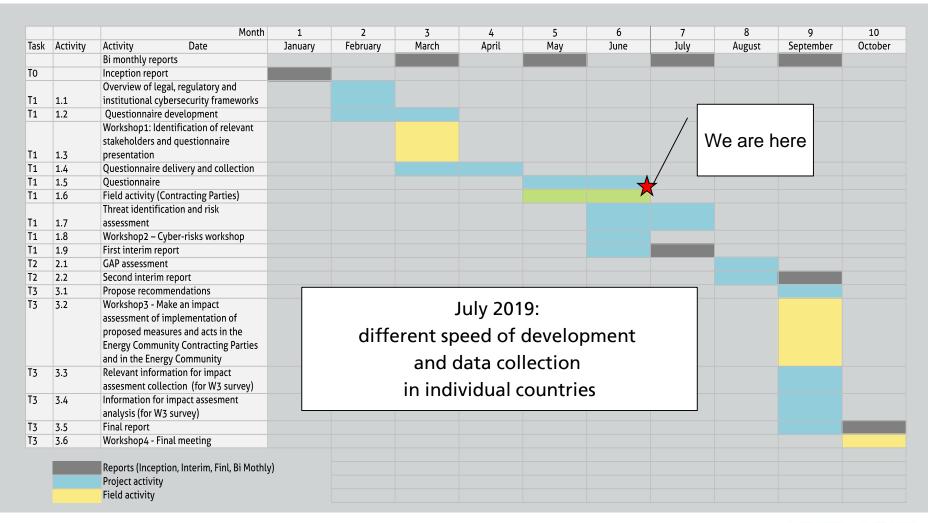
On the basis of Procedural Act 2018/2/MC-EnC: on the Establishment of an Energy Community Coordination Group for Cyber-Security and Critical Infrastructure, created among other to promote a high level of security of network and information systems and of critical infrastructures within the Energy Community, a coordination group for cyber-security and critical infrastructure was set up.



Ist Cybersecurity Day in the Energy Community - gathering representatives from Ministries, regulatory bodies and system operators from Albania, BiH, North Macedonia, Georgia, Kosovo*, Moldova, Montenegro, Serbia and Ilkraine



Engagement and ongoing activities



Methodology – key tasks

- Information gathering
 - Awareness raising
 - Segmented by stakeholders
 - Interactive
- GAP assessment (-> obstacles)
 - EU rules and best practices
 - Current state of Cybersecurity in EnC Contracting Parties
- Propose minimum common framework
 - Measures
 - Institutions (necessary to implement measures)
 - Assess impact of proposed measures
 - Implementation roadmap

- Budapest convention implementation
- ECI and NIS implementation related information
 - Cybersecurity strategy
 - Critical infrastructure identification/criteria
 - Essential services
 - Incident reporting (contact points)
- Standards
- Cyber security cooperation, projects and assistance
- Awareness, education and training programmes and cooperation
- Cyber risk assessment
- Impact assessment of proposed measures



Standards and Good Practice

EU Commission Recommendation Features

- Real-time requirements (segregation, authentication, encryption, physical security...)
- Cascading effects (from grid to grid from country to country)
- Legacy technology combined with network of IoT devices
- Description of some recommended standards (ISO/IEC 27001/27019, IEC62443, IEC62351, ISO/IEC31000)



Questions?



