THE ENERGY COMMUNITY
Cybersecurity in the energy sector

Cybersecurity Coordination Group – Vienna, 15 December 2020
Energy Community Annual Implementation Report 2020

Energy Community

MAIN AREAS OF WORK

Statistics · Electricity · Renewable energy · Value added tax · Competition/state aid · Environment · Cyber security

Regulator · Gas · Climate · Energy efficiency · Oil · Security of energy supply · General services

Governance

Governance	Albania	Bosnia and Herzegovina	Georgia	Kosovo*	Moldova	Montenegro	North Macedonia	Serbia	Ukraine
Strategy	●	●	●	●	●	●	●	●	●
Legislation	●	○	●	●	○	●	○	●	●
Standards	●	●	●	●	●	●	●	●	●

- **Competences**
  - Shared between authorities for national security / justice and information society / administration
  - Sectoral (energy) authorities responsible for critical infrastructures, with no cybersecurity competences

- **Strategies**
  - Cybersecurity strategies as initial form of legislation – expired or in the proces of updates / development / adoption
  - No sectoral (energy-specific) cybersecurity strategy (initiatives exist)

- **Legislation**
  - EU convention on cybercrime / cyber defence enforcement broadly implemented since 2010
  - Critical information infrastructure provisions partially transposed, no compliant legislation in force

- **Technical standards**
  - National or sectoral criteria / rules not enforced,
  - ISO/IEC 27001, 27019 – partially applied by most of the energy operators

- **CSIRT**
  - Teams covering energy sector established, no energy CSIRT exists

● energy-specufuc provisions
● compliant act in force
● insufficient energy references
● act / measure still incompliant
○ act / measure not adopted

Critical Infrastructure

CI	Albania	Bosnia and Herzegovina	Georgia	Kosovo*	Moldova	Montenegro	North Macedonia	Serbia	Ukraine
Contact point	green	light blue	blue	blue	dark blue	light blue	light blue	green	dark blue
CII / ES	green	white	light blue	dark blue	white	white	light blue	green	light blue
CI Criteria	blue	white	light blue	dark blue	dark blue	white	white	dark blue	dark blue
Designation	light blue	white	dark blue	light blue	dark blue	white	white	dark blue	dark blue
Security plan	light blue	white	dark blue	light blue	green	dark blue	white	green	dark blue

Legend:
- green — energy-specufuc provisions
- dark blue — compliant act in force
- blue — insufficient energy references
- light blue — act / measure still incompliant
- white — act / measure not adopted

- **Identification**
  - CII and CI not coherent, public infrastructure, Protected infrastructure (security), 2-level criteria
  - private infrastructure not included, criteria not defined / not quantified

- **Designation**
  - National mechanisms for designation not established, liaison officers not appointed / available
  - Rules for bilateral (cross-border) designation not developed, information not published
  - essential services not defined

- **Security Plans**
  - Operator security plans not required or not not energy-critical
  - Legal enforcement is missing, regional security component not included

Energy Community
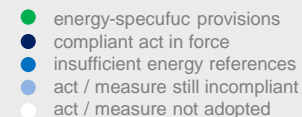
o **Energy environment**

	Energy Regulator	Albania	Bosnia and Herzegovina	Georgia	Kosovo*	Moldova	Montenegro	North Macedonia	Serbia	Ukraine
powers		●	○	○	○	●	○	●	○	○

- **Requirements for CI operators**
  - critical assets list / threar scenarios not defined, risk assessment rules not developed or general (CSIRT)
  - Resilience targets, maturity assessment, contingencies – not required
  - Certification criteria not consistent or not applied
  - Reporting obligations not enforced / defined, or related to CSIRT authority
  - policy / mechanisms / infrastructure for early warning
  - energy-specific requirements (OT security rules, cascading risk assessment, treatment of legacy infrastructyre)

- **Requirements for Energy Regulators**
  - overal powers of NRA in cybersecurity are missing
  - required competences in application of cybersecurity standards, costs of assets transfered to regulated tariffs
  - competences of NRA in definition of procurement criteria and tendering for new infrastructures
  - monitoring competences for application of rules and performance ot the operators

- **Exchange of information**
  - Establishment of national / regional energy ISAC

● energy-specufuc provisions
● compliant act in force
● insufficient energy references
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THANK YOU for your kind attention

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Energy Community

- **Representation** in CyberCG and its Working Groups (update, set-up of coordination structure)

- **Legislation**

  - Transposition of the acquis – ongoing projects support (roadmap, draft assessment / proposals)

  - NRA powers in cybersecurity

- **Critical infrastructure**

  - Draft criteria / methodology for the energy sector

  - Designation mechanisms – model, cooperation

  - Methodology for OT and legacy infrastructure

- **Exchange of information**

  - Initiative for establishment of EnC Energy ISAC

  - Reporting obligations for operators (critaria, rules)

- **Cybersecurity Academy**

  - Training programs – Governance (legal), Regulatory, OT security - DSO / TSO (electricity, gas)

  - Risk Preparedness in cybersecurity – methodology, roadmap, traininmg session, exercises