



European
Commission

Cyber-security: Hype or real threat?

The 7th Vienna Forum on European
Energy Law – One Step Beyond

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Remi Mayet,
Deputy Head of Unit, Security of Supply
Directorate General for Energy
European Commission

Energy

The European Energy Sector

THE ENERGY SYSTEM OF TOMORROW WILL LOOK DIFFERENT

2015

Paris Climate Agreement



2030

50 % of electricity to come from renewables



2050

Carbon free electricity & transport further decarbonised



- ***Undergoing radical change***
 - ***Transition to low carbon economy***
 - ***Decentralisation & renewable energy sources***
 - ***Digitalisation***
 - ***Smart Grids***
- ***Increased risk of cyber-attacks!***

Horizontal cybersecurity legislation

Cybersecurity Strategy - 2013

NIS Directive - 2016

Cybersecurity Package - 2017

Cybersecurity Act - 2019

Cybersecurity in energy legislation

Regulation of the Security of Gas Supply - 2017

Clean Energy for all Europeans - 2019

Actions

Network Code (EG2 preparatory work)

Risk Preparedness

Real time requirements

Cascading effect

Technology mix

Energy for specific in cybersecurity implementation?

Stakeholder consultations - 2018

Outcome

Information sharing

Guidance on NIS implementation

Guidance beyond NIS

Actions

Events, Workshops, EE - ISAC

Work stream 8 - NIS Cooperation Group

Commission Recommendation C(2019)2400 final

Commission Recommendation C(2019) 2400 final on cybersecurity in the energy sector

Identifies actions required to address the particularities of
the energy sector

Real-time requirements

*...simply cannot be
addressed by
standard cyber
security solutions
like authentication or
encryption.*

Cascading effects

*...can trigger black-
outs in other sectors
and countries.*

Technology mix

*...creates risks from
legacy components
designed when cyber
security was not an
issue, and from new
Internet-of-Things
devices not made
with cyber security
in mind.*

Calls Member States to ensure that the relevant stakeholders take the
necessary measures and encourage them to build up **knowledge and
skills** related to cybersecurity in energy



Political Guidelines of the President-Elect

- **Digitalisation** of the energy sector is connecting the European Commission's objectives of "**A Europe fit for the digital age**" to the **European Green Deal**, bringing **new business opportunities**, and strengthening **technological leadership**.
- Despite all of these advantages, digitalisation also brings **new challenges** for the energy sector, especially on **cybersecurity**.
- **Digitalisation and cybersecurity are two sides of the same coin.**

Thank you for your attention !

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