



# Cybersecurity in the energy sector

## The EU perspective

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# 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***

# Cyber Policy Context



## *Where we are:*

- *EU Cyber Security Strategy (2013)*
- *Network and Information Security Directive (EU) 2016/1148*
- *Data Protection: Regulation (EU) 2016/679 - GDPR*
- *European Program for Critical Infrastructure Protection*
- *Cybersecurity Package (2017): acknowledging specificities of different sectors and referring to sector-specific requirements.*

***Do we need anything specific for the energy sector?***

*...yes!*



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*...but why?*

# Key challenges of the energy sector in terms of cyber security



- *Real time requirements*
- *Cascading effects*
- *Legacy technologies connected to digital technologies*

# ***How to address the particularities of the energy sector?***

# *Cybersecurity in European energy policy*



- *Clean Energy for all Europeans Package (11/2016)*
- *Security of gas supply regulation*



# ***Next steps:***



- ***Work with Member States***

*...via an energy specific work stream in the NIS Cooperation Group*

- ***Specific sectoral cybersecurity guidance***

*...via Commission Recommendation*

- ***Outreach to energy community***

*...high-level conference in cybersecurity in energy autumn 2018*

- ***Information sharing***

*...enhanced cooperation with the European Energy Information Sharing and Analysis Center*

# Conclusions

- *The European energy market is undergoing rapid change in terms of infrastructure and market*
- *The energy sector has its particularities in terms of cybersecurity that we need to address*
- *"Security is a process, not a product" (B. Schneier)*

# Thank you for your attention

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