
The Trusted Voice of Distribution System Operators In Europe



Welcome to the webcast



Policy & Regulation

White Paper

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ach for a digitalised energy system transformation



ACKNOWLEDGMENT: This White Paper builds on the findings of the E.DSO work on Digital Transformation and the workshop co-organised with European Commission. A detailed scale calibration

13-03-2023
White Paper: A multi-scale approach for a digitalised energy system transformation

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09-03-2023
Net- Zero Industry Act. E.DSO/Europacable/T&D Europe Urgent request to explicitly include grid technologies

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01-03-2023
REPowering the EU with a realistic F-gas regulation

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28-02-2023
E.DSO/ Europacable/T&D Europe Joint Statement on the Green Deal Industrial Plan: Net-Zero will not be achieved without electricity grids & infrastructure

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Revision of the EU's electricity

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E.DSO – The Trusted Voice of DSOs in Europe





E.DSO is the only **100% DSO**,
100% electricity association at
EU level



**35 Distribution System
Operators**, including 2
Associations



>200 million Customers



7 million kilometres of
distribution lines

E.DSO – The Trusted Voice of DSOs in Europe



Technical Expertise

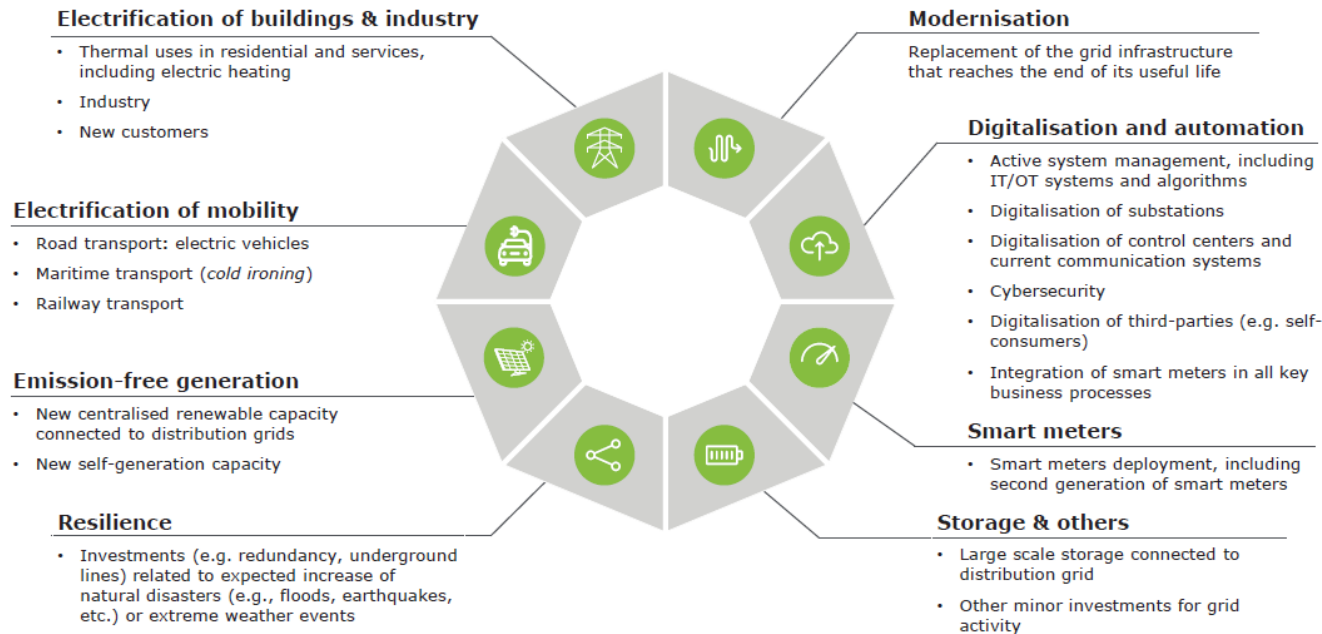
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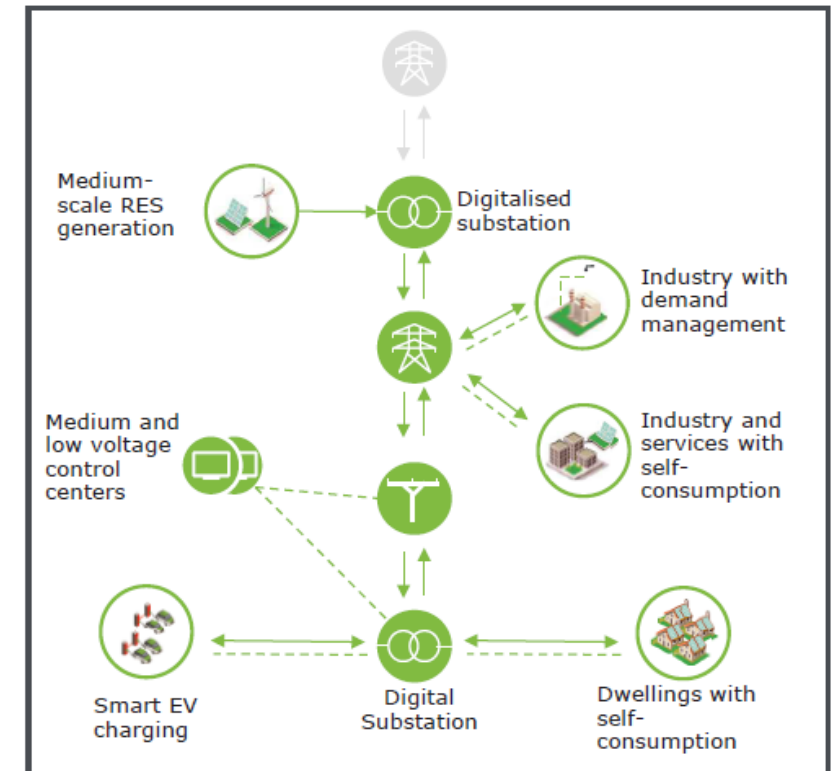
E.DSO Projects



Digital Transformation of the power distribution system



Power Distribution Grid of the Future



Digital Transformation of the power distribution system



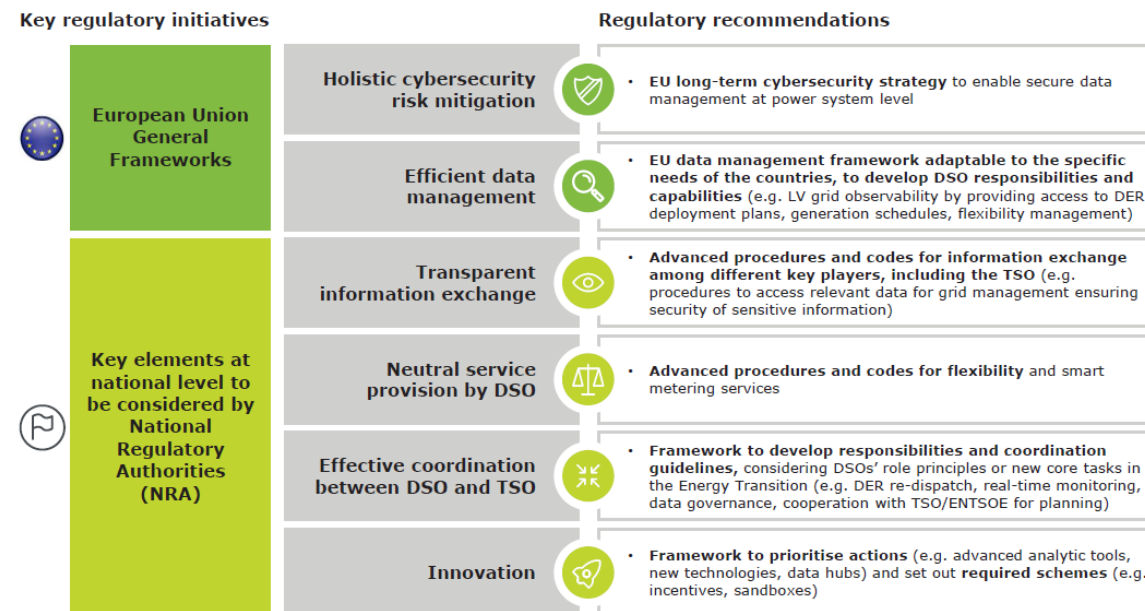
Equipment 	Upgrading/renewal of existing assets and advance protection systems to provide extra capacity	Digital substations/transformers, advanced sensors and smart meters to enhance grid monitoring, stability and control	Redundant equipment, underground lines and back-up storage (e.g. batteries) to increase security of supply	Drones for power grid geographical mapping and optimising maintenance
IT/OT Systems 	Systems with faster access to data for grid management at local/node level (e.g. SCADA) and edge computing	GIS and mapping systems , including grid capacity maps and power flow analysis tools	Cloud data storage and management systems	Cybersecurity software solutions (e.g. malware protection)
Communications 	Telecommunication infrastructure (e.g. optic fiber, mobile/broadband network)	Communication protocols with third-party physical assets/systems , including, aggregators or ESCOs	Communication protocols to connect DSO systems with renewable generators	
Advanced analytics 	Prediction of load curve, generation or natural disasters	Management and control of the grid	Predictive maintenance	Cybersecurity software solutions (e.g. malware protection)

Source: Eurelectric; DSOs and national associations; Monitor Deloitte

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Connecting the dots: Distribution grid investment to power the energy transition

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Source: Eurelectric; DSOs and national associations; Monitor Deloitte

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Connecting the dots: Distribution grid investment to power the energy transition

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Importance of knowledge sharing

Technical Expertise

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European Distribution System Operators



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