41st SYMPOSIUM, LJUBLJANA, 1- 4 JUNE 2021 SLOVENIA

Reshaping the Electric Power System Infrastructure

Type here the title of your Synopsis Proposal
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Type here the number(s) of the preferential subject(s) addressed (List below)
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Preferential Subjects:

1 Structural change of existing equipment and infrastructure
a) Increased capacity by upgrading existing equipment and infrastructure.
b) Standardization.
c) Needs of new design of equipment and infrastructure.
d) Technologies of end to end networks (LV to UHV) including micro-grids and super-grids.
e) Optimal voltages of equipment for renewables.
f) Decarbonisation of network equipment and infrastructure.

2 New equipment and infrastructure
a) Interconnections between regions and countries.
b) Generation, transmission, energy storage.
c) Renewable energy, distribution.
d) Use of Process Bus including Low Power Instrument Transformers and evolutions of Protection Automation and Control Systems.
e) Environmental impact on future design (visual, audible noise, Electro Magnetic Compatibility, etc.)
f) New materials for equipment (nano technology, High Temperature Superconducting, ceramic, etc.)

3 Security of the network
a) Climate change impact on equipment and infrastructure (icing, fire, wind, floods, landslides, etc.)
b) Physical security, safety
c) Cyber security
d) Solutions for protection in the low inertia grid
e) Contribution of equipment and infrastructure to increase the grid resilience