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Naslov: " Control Interoperability in the PE-based Multi-Terminal HVDC Connections "

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ABSTRACT: Wind farm-generated energy is slated to become a dominant renewable energy source thanks to zero-carbon policies, with as much as 600GW of planned installations, partially in the North Sea. All this off-shore energy will have to be transmitted onshore using multi-terminal high-voltage direct current (HVDC) connections established through the Power Electronic (PE) converters. This connection must be kept highly stable, reliable, and flexible. However, specific guidelines and standardizations for the HVDC connections remain open questions.

The main bottleneck for the design of the HVDC connection is the PE converter control. From this perspective, my research provides new solutions to develop fundamental standardized smart PE controls for the HVDC-based electrical grids, which are interoperable and align with the expectations for the safe operation of the forthcoming multi-terminal grids.



BIO: Aleksandra Lekić (M'18-SM'22) received the B.Sc., M.Sc., and Ph.D. degrees in electrical engineering from the University of Belgrade, Serbia, in 2012, 2013, and 2017, respectively. Between 2012 and 2019, she worked at the University of Belgrade, Serbia. In 2019 she was a Postdoctoral Researcher at the Department of Electrical Engineering (ESAT), KU Leuven, and at the Institute EnergyVille, Genk, Belgium.

Currently, Aleksandra is an Assistant Professor at TU Delft, Faculty of Electrical Engineering, Mathematics and Computer Science in the Intelligent Electrical Power Grids group. Aleksandra is leading the HVDC/AC research team that develops control and protection solutions for HVDC/AC power systems and offline and online (real-time) experimental studies. She is also a technical director of the Power System Protection Centre.