



University of Pavia

Ph.D. School of Electrical and Electronics Engineering and Computer Science

SEMINAR

High Voltage submarine and land cables: an overview

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Polo Didattico Ingegneria

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Abstract: Presentation and discussion of different High Voltage cables types for both HVAC and HVDC applications. Comparison between land and submarine cables construction, design and grounding system to be adopted during system design and project execution. Basic cable design overview highlighting the main thermal, electrical and mechanical parameters to be considered during the preliminary design phase. How to ensure the reliability of cable systems through a dedicated set of tests recommended by relevant standards such as IEC and Cigrè brochures. Cable for offshore windfarms reliability and cost-effective design in order to minimize both CAPEX (capital expenditure) and OPEX (operating expense).

Bio: Marcello Bottani was born in 1983. He obtained his MSc degree in Electrical Engineer (110/110) at the University of Pavia (Italy) in 2009. In the same year, he joined the Electrical Rotating Machineries department of Ansaldo Energia (Genoa, Italy), as R&D engineer, until May 2013. In June 2013, he moved to Prysmian PowerLink s.r.l. (Milan, Italy), a business unit of Prysmian Group, as system design engineer, until January 2015. After this period, he remained in Prysmian Group, but with a different role, as contract engineering manager, by following customers in many foreign countries, until May 2017. Actually, he is HV business development manager in Prysmian Group, at the business unit of Singapore Cables Manufacturers Pte. Ltd. He is author of three papers published on proceedings of IEEE international conferences.

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