Arman Derviškadić Electrical Engineer M.Sc.

Extensive knowledge in T&D Systems. Mainly interested in HVDC transmission: converter stations primary and secondary equipment. Extensive knowledge about the electromechanical industry and manufacturing processes. Always ready to deepen technical aspects connected with innovative technologies in the T&D sector. Passionate about Electrotechnics. Energetic, dynamic and flexible personality, team player, goal-oriented. Frequent traveller.

Work Experience

2022 - Present | Rome, Italy - Ludvika, Sweden

HVDC Capture Team Leader

Hitachi Energy

Responsible to define and execute the company's strategy for HVDC projects in South EU. Responsible to lead the capture team and to oversee the entire process of pursuing HVDC contracts.

2018 - Present | Rome, Italy

Lecturer at "La Sapienza" University of Rome

Courses: HVDC Technology, High Voltage Engineering, HV Electrical Components

2020 - Present | Rome, Italy

Board Member - CIGRE NGN Italy

Start up and organization of the Italian CIGRE NGN community

2016 - 2021 | Arnhem, The Netherlands

Sales and Business Development Manager

KEMA Labs, CESI Group (and DNV until 2020)

Technical Sales and Business Development at the World leading company in Independent Testing, Inspections and Certification of Electrical Components for the T&D Networks. Hundreds of successful projects and happy Customers. Strong dedication to technical aspects and active participation to the main test programs executed at KEMA.

2018 - 2020 | Istanbul, Turkey

Lecturer at ITU Istanbul Technical University

Course: High Voltage Engineering

2021 - 2022 | Rome, Italy

Area Manager Europe - International BD

Terna Plus, Terna Group, Italian TSO

Responsible to develop Terna's business in Europe. Focus topics: Interconnection projects, RES and Energy Intensive Industry. Holistic view: transmission projects, regulations and energy markets.

2012 - 2015 | Rome, Italy

Project Engineer

Terna Plus, Terna Group, Italian TSO

Coordinated infrastructure projects within Energy field related to Energy Efficiency and growth of Renewable Energy Sources in Italy. Feasibility studies, detailed design and substation EPC Projects.

2011 | Stockholm, Sweden

Laboratory assistant (Power Electronics Lab) KTH (Royal Technical University)

Comparison of different methods to measure submodule capacitor voltages of Modular Multilevel Converters for HVDC applications

Expertise

HVDC		Offshore Wind	
Dynamic System Studies		Control and Protection	
Business Development		Negotiation	
Project Management		Site Management	
Conferences, Exhibitions, Congresses			
High Power Laboratory		High Voltage Laboratory	
Type Tests, Routine Tests, Special Tests			
IEC	CIGRE		IEEE
IEC 62271	IEC 60076		IEC 61869
IEC 62067	IEC 60840		IEC 60502
Certification and Reporting			
ISO 17025	IEC 17020		IEC 17065
Substation Design		Equipment Specification	
Cable Systems		Dissemination	

Education

M.Sc. in Electrical Engineering - Electric
Power Systems at "La Sapienza" University of
Rome and "KTH" Royal Technical University in
Stockholm.

MBA at Bologna Business School

2022 - Present | Rome, Italy

HVDC Capture Team Leader

Hitachi Energy, Grid Integration, HVDC

Responsible to define and execute the company's strategy for HVDC projects in South EU. Responsible to lead the capture team and to oversee the entire process of pursuing HVDC contracts.

Publications

- 1. "La tecnologia HVDC al servizio degli impianti eolici offshore", Arman Derviskadic, Alberto Persico L'Energia Elettrica AEIT, 2023 Translation: "HVDC Technology for Offshore Wind Farms"
- 2. "HVDC come fattore abilitante per l'integrazione delle rinnovabili" Arman Derviskadic, Alberto Persico, Mauro Monge L'Energia Elettrica AEIT, 2022 Translation: "HVDC as an enabler for the integration of renewables"
- 3. "Opportunities and Challenges in the Mediterranean Region with Grid Forming Control for HVDC Systems", Arman Derviskadic, Alberto Persico, Emir Isabegovic, Anton Thorslund AEIT HVDC Conference, 2023
- 4. "Technology outlook and power system development opportunities to strengthen the Transmission System in the Mediterranean Region", Peter Lundberg, Mauro Monge, Alberto Persico, Andrea Grondona, Arman Derviskadic, Enrico Maria Carlini, Temistocle Baffa Scirocco, Domenico Iorio, Andrea Urbanelli, AEIT HVDC Conference, 2023
- 5. "Challenges and opportunities for Multi-purpose Interconnectors and wind offshore generation", Arman Derviskadic, Enrico Maria Carlini, Corrado Gadaleta, Michela Migliori, Matteo Tulli, Francesca Longobardi, Elin Rahmqvist, Alberto Persico, Hitachi Energy Terna Cigre SEERC 2023
- 6. "Istanbul: City Centre Infeed with Voltage Source Converter-Based HVDC", Arman Derviskadic, Mauro Monge, Peter Lundberg, Fatemeh Mohammadi Behbahani, Dr.Meghdad Tourandaz Kenari, Prof. Aydogan Ozdemir Hitachi Energy ITU Istanbul Technical University Cigre SEERC 2023

2019 - Present | Rome, Italy

Board Member - CIGRE NGN Italy

Actively supporting CIGRE to establish an NGN community in Italy and to increase the number of early career professionals and students within the organization. The community is growing at good speed.

2018 - Present | Rome, Italy

Lecturer at "La Sapienza" University of Rome

Courses:

High Voltage Engineering: HV Laboratory design and main test equipment. LI voltage generator, AC voltage generator. High Power Laboratory design and main test duties. **HV Electrical Components:** HV Substation equipment, manufacturing processes for Power Transformers, HV Circuit Breakers/GIS, HV Cables and accessories, Type Tests, Routine Tests and Special Tests. Switching in Power Transmission Systems. SC Testing. **(2022) HVDC Technology:** LCC HVDC Transmission Systems, VSC HVDC Transmission Systems, Power System Dynamics and Stability, Control and Protection, Active Power Control, Reactive Power Control, Damping Control, Harmonics.

In 2021, due to a failure I disassembled and repaired the "Passoni and Villa" lightning impulse generator in the University's High Voltage Lab.

In the period 2018-2020 I have started lecturing also at "ITU Istanbul Technical University" within the scope of the course High Voltage Engineering. Due to Covid-19 I decided to stop this activity.

2021 - 2022 | Rome, Italy

Area Manager Europe - International BD

Terna Plus, Terna Group, Italian TSO

Responsible to develop Terna's international business in Europe; main fucus areas are Iberian Peninsula, North Sea and Balkans. Focus topics: Interconnection projects, RES and Energy Intensive Industry. Holistic view: transmission projects, regulations and energy markets.

2016 - 2021 | Arnhem, The Netherlands

Sales and Business Development Manager

KEMA Labs, CESI Group (until 2020 DNV)

Business Development: Identifying and developing opportunities within Energy Industry related to Testing, Inspection and Certification in Southern and Eastern Europe, Russia and Central Asia; Establishing business relationship with all electrical equipment manufacturers, Transmission & Distribution Utilities and end-users of electrical equipment; Growing the awareness in Southern and Eastern Europe, Russia and Central Asia about the importance of type testing electrical equipment according to international standards; Representing KEMA Labs in Technical Conferences, Exhibitions and Fairs; Following the main CIGRE events under the Italian CIGRE Membership; Organizing technical seminars at Utilities; Providing support to companies manufacturing electrical equipment willing to combine their products with KEMA Type Test Certificates; Sponsoring Advisory services and innovation projects, i.e. PROMOTioN; Following the trends and innovations in the Energy Sector to foster the transition towards a safer, smarter and greener future.

Technical Sales: Representing KEMA Labs in Southern and Eastern Europe, Russia and Central Asia; Setting the sales targets for the Southern and Eastern Europe and Central Asia region; Negotiating all projects in the region, persuading Customers to invest in KEMA Certification despite huge price differences with the main competitors; Supporting Customers 24h-7/7 with 100% rate of Customer satisfaction; Coordinating internal and external resources to contractualize, plan, deliver and execute a wide portfolio of Testing, Inspection and Certification projects. Strong dedication to technical aspects and active participation to the main test programs executed in KEMA Arnhem, KEMA Prague and Customers' laboratories.

Main standards covered: - Power and Distribution Transformers according to IEC 60076 series; - Power Cables and Cable Accessories in accordance with IEC 60502, IEC 60840 and IEC 62067 - HV Circuit Breakers and Disconnectors according to IEC 62271 series; - HV and MV Instrument Transformers according to EN 61869-1/2/3; - MV Switchgear and MV Equipment according to IEC 62271 series; - HV fuses according to IEC 60282 series; - LV Switchgear and Controlgear Assemblies according to IEC 61439-1/2; - Substation Automation Equipment according to IEC 61850 / IEEE1613; - Protection Relays according to IEC 60255 / IEEE C37.90 - Energy Meters according to European MID, IEC 62052, IEC 62053, IEC 62055, EN 50470.

Laboratory Experiences: Witnessed over 25 large power transformers Short Circuit withstand tests. Witnessed Routine Tests of large power transformers. Witnessed countless test programs at High Power Laboratory: STC, M&B and switching in MV and HV equipment. Witnessed countless test programs at High Voltage Laboratory, with main focus on HV power cables. **HVDC:** Witnessed HVDC CB tests for PROMOTioN; 2xHVDC Transformers tests for EU transmission infrastructures.

Publications and Education Programs

- 1. CIGRE Science & Engineering, "Verification of the short-circuit withstand capability of transformers", Feb 2018.
- 2. CIGRE South East European Regional Council: "MV Uderground Cable Joints failures: field and independent laboratory experiences", 2020
- 3. CIGRE B&H Electrical Engineering: "Innovative T&D Switching Equipment And Development Of Its Testing Technology", 2021
- 4. Education programs at DNV GL: Switching in Power Transmission and Distribution Systems, Power Cables General, Ampacity and Engineering of Power Cables, Power System Protection.

2012 - 2015 | Rome, Italy

Project Engineer, Assistant to Head of National Business Development

TERNA Plus, Terna Group, Italian TSO

Business Development: Identifying and developing opportunities in both greenfield and brownfield infrastructure projects within Energy field related to Energy Efficiency and growth of Renewable Energy Sources (RES) in Italy. Establishing good business relationships with a wide network of National Grid Users and main electrical equipment suppliers. Attending business and technical meetings. Visiting

factories of main electrical equipment and construction sites of power plants, HV S/S & TL. Responsible for due-diligence to validate technical solutions and legal & administrative compliance of Authorizations and construction permits related to RES and industrial Projects.

Proposal Management : Performing feasibility studies and drafting technical & commercial proposals. Writing technical specifications and turnkey EPC contracts for realization of smart HV S/S up to 220kV, HV cable systems & OHTL, PV plants and Wind Farms. Coordinating internal and external resources and interfaces for Renewable Energy and industrial projects totalizing over 1500 MW. Verifying and developing complete design documents for HV S/S, TL & RES projects. Involved in pre-feasibility study of a cross-border HV interconnection turnkey project in EE Region including HVDC Back-to-back S/S, 2x200MVA-330/110kV S/S and 45km of HV TL.

Project Management : Contract Management, Site Management, FATs, Commissioning & Start up, coordinating (Customers' representatives, EPC subcontractors and electrical equipment suppliers) and supervising the execution phase of EPC Projects: Customer-dedicated S/S, cable system and Provisional Connections to National Transmission Grid. Drafting of tender documents, procurement, construction site management, health and safety issues, testing, commissioning and putting into operation. Witnessing FATs for power transformer and HV cable system according to IEC Standards. Extensive knowledge in design documents and understanding of HV S/S & TL components. Simple load flows & SCC calculations performed.

2021 - 2022	MBA at BBS – Bologna Business School		
2021	State Exam for Professional Qualification (Esame di Stato Ing. Elettrico)		
2010 - 2012	'La Sapienza' University, Rome, Italy M.Sc. Electrical Engineering Degree; Electric Power Systems (EPS) Final Grade: 110/110 (Cumulative grade point average)		
2011 – 2012	KTH (Royal Institute of Technology), Stockholm, Sweden Erasmus (European Union Exchange Program), EPS Dept Lab work (Power Electronics Lab) and Master's Thesis, 6 Months Subject: Comparison of different methods to measure submodule capacitor voltages of Modular Multilevel Converters for HVDC applications Final Grade: A		
2005 – 2009	BSc, Electrical Engineering Degree 'La Sapienza' University, Rome, Italy Thesis Subject: Feasibility study, technical project and economical analysis of the photovoltaic generation system for a sport facility.		
2000 – 2005	Liceo Scientifico Statale "Primo Levi", Rome, Italy Pre-University Studies: High school diploma, Scientific Certificate		

Languages:

Proficient: English, Italian, Serb-Croatian **Elementary:** French

IT Skills:

Software: Matlab, Xilinx ISE Design Suite (VHDL), Simpow, LabVIEW, GAMS, COMSOL, AutoCAD, SAP, Java, Dev-C++, Microsoft Office, Wordpress, Google and Facebook ADS, Google Analytics, Salesforce, Pardot, PSCAD.

Hardware: FPGA, DAQ (National Instruments), Mixed-signal Oscilloscopes

Social skills

Communicator and influencer. Expat mindset: willing to discover new cultures and happy to adapt to multicultural environments. Very active social life. Team player. Resilient through life.

Work attitude

Self-directed: strong sense of organization and initiative. Copes with stressful and demanding situations linked to deadlines and project milestones. Tireless and enthusiastic approach to work, always ready for the extra mile. Confident in public speaking and presentations. Ready to represent the Company at exhibitions, congresses and seminars. Brilliant networking skills. Creative, problem solver, team-worker and team-builder.

Personal interests and information

Sports (tennis, snowboard, football, rugby), music (guitar & sax), social media marketing, analog B&W photography, Italian cuisine, nature (backpacking, hiking, cycling). Involved in volunteering with social and environmental issues. Father of two little boys, Leo & Dario.