

TUTORIAL: High Voltage Energized Work Benefits, Practices and the Used of Robotic Tools.

The use of Energized Work for the inspections, maintenance and upgrades/repower of transmission lines has increased with the electric power utilities in order to maintain customer requirements for demand availability at all times and system reliability. The state of the art of this subject involves the application of robotic tools to reduce the potential risks to maintenance crews, improve the execution of repetitive tasks and identify efficiencies to perform the tasks.

The tutorial will present and discuss different methods of Energized Work, general concepts, specialized tools, types of projects, Project Development-Preparation and Execution planning. Actual project examples will be presented. The potential economic benefits for the asset owners, social and system benefits.

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He has a Master in Science in Electrical Engineering from the New Jersey Institute of Technology, specializing in Power Systems. He is registered as a Licensed Engineer, PE, in the United States.

Presently he is Vice President for the Energy Sector for Quanta Services Latin America. He has led and managed engineering groups and commissioning for transmission projects in North America and International. He has specialized in the execution of large EPC Substation and Transmission projects in the United States and in Latin America. He has held technical and management positions in leading international companies in transmission technologies.



He has taught Master Level courses in the areas of Power System and Protection & Control courses. He has participated and contributed in various technical groups in the IEEE and CIGRE organizations.