*TUTORIAL:* **Cyber Security in the Age of Digitalization of Power**

Author & Presenter: **Akilur Rahman, Chief Technology Officer, ABB, India**

Tutorial duration: **90 mins (11th NOV 2018 13:15-14:45)**

Content to be addressed:

- Why cyber security is important in power grid and system. What **vulnerabilities and threats are there (technical aspects), what technologies** are used for mitigating the risks. The overall technical approach and who does should do what (15 mins)

- What **technical and policy standards, guidelines** are there and evolving to address cyber security in power grid and systems domain (15 mins)

- What technology, technical and process measures are required to be followed by what is **required by providers of technology, products and solutions** in terms of security robustness, security in communication and system connectivity (15 mins)

- During planning and build phase power systems what **technical specifications** and measures are required to address security in design and engineering (15 mins)

- With the system in operation and changing threat and technical solution environment, how **to sustain cyber security of the system and grid during operation**. What type of technical collaborations are required for improving security of the systems (15 mins)

- Questions and answers (15 mins)

# Akilur Rahman

CTO - ABB India

Akilur Rahman, CTO - ABB India has 29 years of experience in research, business R&D, technology management, engineering, business and product development in ABB.

He has Master's degree in Technology from IIT Kharagpur with strong experience in power and automation technologies for utilities and industries. He has held various international and global roles in India, Germany and Switzerland. Akilur was responsible for building up ABB's global software product development in India. Led global engineering in process automation and ABB's Corporate Research center in Bangalore.

Was global head of cyber security in process automation division of ABB, addressing cyber security in R&D, standardisation, products, projects and plant operations. Presented cyber security in several international conferences and forums.

As CTO - ABB India, leading ABB's core technologies, automation, robotics, Industrial IoT and Digitalization enhancing customer values and user experience.

Akilur has been a speaker and panelist at various international and national conferences.