

Resilient Smart Energy Grids and Micro Grids with Safety and Security Considerations

Dr. Hossam A.Gabbar
University of Ontario Institute of Technology, UOIT

World is facing challenges in energy supply due to the increase in energy demand with different internal and external conditions and risk factors that affect the operation of the target smart grids infrastructures. It is important to discuss potential safety and security issues starting from the design stage of the target smart energy grids and micro grids to cover these limitations. This talk will address design and operation frameworks and best practices to enable practical implementations of resilient smart energy grids and micro grids while considering safety and security issues.

Review of international standards and best practices with case studies will enable audience to get better understanding of the scope of the problem and potential solutions.