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PRESENTED BY THE WATERLOO INSTITUTE
FOR SUSTAINABLE ENERGY

Wednesday June 26th, 2019

3:00 pm – 4:00 pm

CPH 4335

THE ROAD TO RELIABLE AND ECONOMICALLY FEASIBLE ELECTRICITY FOR REMOTE COMMUNITIES IN DEVELOPING AND DEVELOPED ECONOMIES

Mohamed Elkadragy, PEng, Renewable Energy Scientist
(Expertise in Energy Storage and Off-Grid Systems), Technical
Trainer, Electrical Engineer.

The main vision for our research is to support the role of sustainable energy in providing affordable energy access and ending energy poverty worldwide. The research study is carried within the global initiative Affordable Energy for Humanity (AE4H). Using a practical, hand-on research approach, with international off-grid deployed projects in Africa, Europe and North America.

In this talk, we will describe our applied research concept and share actual project-related outcomes and experiences for a contrastive techno-economic analysis and system design optimization of an Off-grid Hybrid Renewable Electricity System (OHRES). Case studies in contrastive remote location were selected in Canada (Nemaiah Valley) and Uganda (Jinja) for the OHRES deployment.

Biography



Mohamed Elkadragy is a renewable energy scientist with more than five years of industrial and applied research related professional experience on an international scale. He holds a masters degree in renewable energy (with excellence), and a B.Sc. in electrical engineering. Currently working as a research scientist at Karlsruhe Institute of Technology (KIT), the main focus of his research is renewable energy storage system development, Solar PV, Wind and renewable hybrid systems.

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