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Engr. Meer Abdul Mateen Khan (CEA-IT) Engineer-II

Interdisciplinary Research Center for Renewable Energy and Power
Systems (IRC-REPS)
King Fahd University of Petroleum & Minerals, Saudi Arabia

Executive Summary

An Electrical Engineer with more than 5 years of experience as a researcher, team leader, trainer in domestic and industrial projects related to renewable energy (RE)/ RE applications/energy efficiency. Key research activities include as follows:

- ✓ **Renewable energy:** Solar PV and wind turbine modeling, PV sizing, Optimization of solar PV tilt angle to maximize PV yield, Maximum power point tracking for PV and Wind systems, Microgrids.
- ✓ **Renewable energy Application:** Coupling and optimization of solar PV system with reverse osmosis system for water desalinations.
- ✓ **Energy Efficiency:** Performing ASHRE Level -1 and Level-2 energy audits for clients and recommending energy efficiency measures.

Education

- ❑ MSc in Electrical Engineering (KFUPM, 2016)
- ❑ BE in Electronics and Instrumentation Engineering (Osmania University, 2012)

Distinguished Projects

- Energy Audit for Dammam Feed Mill (DFM) Of Arabian Agricultural Services Company (ARASCO).
Role : Task Leader, Sep 2018 – Jan 2020.
- Dynamic Simulation and Control of Reverse Osmosis Water Desalination Plant Integrated With-in Photovoltaic System, KFUPM (DSR).
Role : Task Leader, Sep 2019 – January 2021
- Energy efficiency improvements in mosques, KFUPM (CEEE).
Role: Team Leader, Nov 2019 – ongoing
- ASHARE Level-1 and Level 2 energy audit for Commercial buildings
Role: Team leader, Feb 2018 to Jul 2019
- Benchmarking Study for Small Scale Rooftop PV System in the Kingdom of Saudi Arabia. GRL-KA.CARE
Role: Team Member, Oct 2021-ongoing.

Research Summary

- Four (4) published paper
- Citations : 96
- H- index: 3
- One (1) Book Chapter

Award and Recognitions

- Certified Energy Auditor (CEA-IT)
- Ex-Member of Association of Energy Engineers (AEE)

Skills and Expertise

- Good experience in using software tools such as MATLAB, PVSyst, HOMER.
- Experience is performing measurements, data logging, data collection and analysis related to energy consumption of a facilities.
- Writing of Project reports, scientific research papers, proposals for clients.
- Hands on experience in using and configuring energy auditing tools from Fluke, eGuage, ONSET HOBO, Gossen Lux Meter.