

Interdisciplinary Research Center for Renewable Energy & Power Systems



Interdisciplinary Research Center for Renewable Energy and Power Systems (IRC-REPS), was launched as a pioneering coordinated structure to advance applied research focusing on renewable energy and fundamentally enabling power system technologies in 2007. IRC-REPS is a unique fully integrated industrial and academic research entity able to bring all engineering disciplines and technological research capabilities under one umbrella.



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Dr. Fahad A. Al-Sulaiman

IRC-REPS Director



Biography

Dr. Fahad A. Al-Sulaiman is the Director of IRC-REPS. His expertise in projects development/ research/teaching/strategy development include: Renewable energy (solar thermal, solar PV and wind energy), cogeneration, trigeneration, distributed/ decentralized generation, water desalination, advanced thermal power cycles, electrical grid-connection of RE systems, cooling and heating systems, techno-economic studies, sustainability, life cycle analyses, energy efficiency; energy auditing, energy policy & regulations.

Experience:

- (2021-Present) Director of IRC-REPS KFUPM.
- (2016-Present) Director of JRC-CEEE.
- (2014-2021) Director of the Center of Research Excellence in Renewable Energy.
- (2021-Present) Program Coordinator for the Intelligent Energy Systems Management.
- (2015) Visiting Professor, National University of Singapore.
- (2011) Visiting Professor, Massachusetts Institute of Technology (MIT), Cambridge, MA.
- (2008) Energy Researcher, National Research Council Canada.
- Chairman and member currently and in the past of more than 35 national and university committees.
- Won AEE's Energy Professional Development Award 2021.

IRC-REPS multidisciplinary research approach is focused on excellence in alternative and clean energy efficient related academic research and development solutions for the benefit of the Kingdom of Saudi Arabia and supporting the local energy industry to attain development and growth in renewable and sustainable energy technologies. IRC-REPS is focused on the KSA's diverse and challenging development of sustainable and energy efficient solutions that address the social, environmental, and economic impacts of the electric power industry and help achieve the Saudi Vision 2030 objectives.

We offer a set of unique resources under one roof to investigate how to prepare the Kingdom's energy infrastructure for an infusion of renewable power, to upload and download energy, to optimize storage devices, and to control strategies for power delivery. It is an ideal place for collaborative partnerships, where industrial vendors and operators can test their new ideas, technologies, and architectures.

