



Organized by



Conference Description



Conference



Title

Vision of Solar Energy in the Kingdom of Saudi Arabia: Applications and Challenges



Place

Qassim University



Organized by

College of Engineering



Language

Arabic - English



Date

9 - 10 December 2020

- The conference will be conducted in line with Vision 2030 of the Kingdom of Saudi Arabia, which is designed to support the national economy and to reduce dependency on the oil economy.
- It will generate awareness regarding the importance of solar energy as an abundant source of renewable energy in Saudi Arabia.
- The conference will cover the current state and advances in solar energy applications and technologies.
- It also will emphasize the solar energy applications in various sectors including Academia, Government and Industry in Saudi Arabia.

Why to be held?

Objectives

This conference aims to foster the development of sustainable solar energy technologies to support the Kingdom Vision 2030. It aims to bring together leading academics, researchers, and industry experts from all over the world, for sustainable development of solar energy in Saudi Arabia, to share their results and experiences.

Clear Vision

③

Contribute to the goal of the Kingdom's vision 2030 to shift from an oil-based economy.

Rational Cost

[X]

Economic case evaluation of investing in solar energy at local, regional and international levels.

Rewarded Opportunities



Inviting top professionals, market leaders and experts in solar energy to share their research results and expertise.

Attractive Investment



Identification of attractive opportunities for investment in the solar energy industry in the Kingdom of Saudi Arabia.

Ambitious Investment



Study of investment impediments in the solar energy industry in Saudi Arabia.

Interconnected Team



Link scientific research and studies in the area of solar energy in Saudi universities with development requirements to meet national challenges in the area of solar energy.

First Track



Electric Power Generation using Solar Energy

Research papers in this track covers electric power generation from photovoltaic (PV) cells and concentrating PV, thermal solar power sources, new solar technologies, sun tracking technologies, cleaning and maintenance technologies, integrating solar power generation systems and case studies in electrical power using solar energy especially in Saudi Arabia.

Second Track



Solar Energy Storage

This track covers papers in areas of solar energy storage technologies such as grid integration, battery energy storage and alternative storage technologies. It also covers storage operations including monitoring and controls, safety of storage systems, economics of storage systems, and relevant case studies.

Third Track



Water Desalination using Solar Energy

Research papers in this track will cover e direct and indirect solar desalination technologies; thermal distillation processes, membrane technology, and other processes like freezing and ion exchange. Other topics of interest may include the economics of solar desalination plants and case studies in Saudi Arabia and other countries.

Fourth Track

Solar Heating and Cooling Applications

Papers in this track will cover solar heating applications for domestic and industrial processes. These also include solar cooling using PV, solar district cooling, optimization of heating and cooling systems and efficiency improvements to enable solar driven applications.



Fifth Track

Passive and Active Applications of Solar Energy to Buildings

This track invites papers in solar passive architecture and the integration of solar energy into urban planning. Active building solar applications includes but not limited to Building Integrated Photovoltaic (BIPV), solar windows, solar water heaters, and low energy and net-zero energy buildings including relevant case studies.



Sixth Track

Solar for Transportation

Research papers in this track will cover the area of solar-powered vehicles, solar energy utilization in public transport, solar-powered flight. Other topics include transportation infrastructure integrated with solar energy, solar electric vehicle charging stations, and auxiliary power systems in the commercial transport industry.



Seventh Track

Solar Energy Management in Saudi Arabia

This track seeks papers in management and administration of solar energy in the Kingdom of Saudi Arabia, including but not limited to the following items.



Economics: Investing in solar energy including feasibility and sound business models covering the socio-economic impacts.

Policies: Developing strategies to enable the smooth implementation of solar energy and the engagement enabling cooperation nationally and internationally and implementation action plans.

Finance: Government support funding schemes, and venture capital.

Investment: Attracting private sector investments and designing efficient policies to support solar technology deployment.

Important Dates

Abstract submission deadline	31 October 2019
Notification of abstracts acceptance	15 November 2019
Early registration deadline	1 December 2019
Full papers submission deadline	3 January 2020
Notification of full papers acceptance	1 February 2020
Conference date	9 - 10 December 2020



Registration and Awards

Registration for paper presenters

The conference organizing committee offers participants who submit papers free registration which includes dinners, accommodation, and the scheduled tour.

Registration for participants

There are no registration fees to attend the conference for paper presenters. However, other participants should pay 750 Saudi Riyal (200 US Dollars) to compensate dinners, accommodation, and the scheduled tour during the conference duration.

Top three best selected papers will be awarded as follows:

The 1st prize= 5,000 Saudi Riyal
The 2nd prize= 3,000 Saudi Riyal
The 3rd prize= 2,000 Saudi Riyal

Committees

General Supervisor

Prof. Abdulrahman AlDawood

The Rector of Qassim University

Organizing Committee

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Vice Rector for Educational Affairs

Members

Dean of College of Engineering

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General Supervisor of Public

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