Ministry of Higher Education and Scientific Research

The Directorate-General for Scientific Research and Technological Development (DGRSDT)

Renewable Energy Development Center (CDER)

The Applied Research Unit in Renewable Energy (URAER)

The Energy System for Agriculture team (ESA)

Organize:

The 1st International Conference on Renewable Energy Applications in Agriculture

ICREAA-2024

13-14 November 2024

Presentation

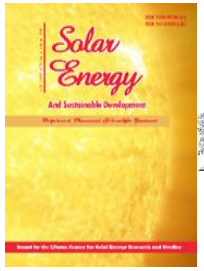
In alignment with the national agenda and under the guidance of key national initiatives, the URAER is proud to announce the organization of an international seminar focused on the transformative applications of renewable energies in agriculture. This specialized event stands as a pivotal platform for URAER to make substantial contributions toward addressing critical challenges in food security, water, and energy.

Conference Objectives

- ✓ Foster Multidisciplinary Exchange: Our foremost objective is to convene a diverse array of global experts, researchers, practitioners, and policymakers at the intersection of renewable energy and agriculture. By bringing together diverse perspectives and expertise, we aim to catalyze innovative solutions and cross-cutting collaborations that transcend traditional boundaries.
- ✓ Facilitate Knowledge Sharing: The seminar serves as a dynamic forum for the dissemination and exchange of the latest scientific breakthroughs, technological innovations, and best practices in the realm of renewable energy applications in agriculture. Through engaging presentations, panel discussions, and interactive workshops, participants will gain invaluable insights into emerging trends and cutting-edge methodologies, thus fostering continuous learning and capacity building.
- ✓ Catalyze Sustainable Partnerships: We recognize that addressing the complex challenges of food security, water scarcity, and energy sustainability necessitates concerted efforts across multiple stakeholders. Therefore, one of our primary goals is to facilitate meaningful dialogue and collaboration between the public and private sectors, academia, civil society, and international organizations. By forging strategic partnerships and fostering synergies, we aspire to mobilize resources, leverage expertise, and scale up sustainable initiatives that promote resilience and inclusive growth.
- ✓ Drive Policy Innovation: In addition to advancing scientific knowledge and technological solutions, the seminar aims to contribute to policy dialogue and advocacy efforts aimed at creating an enabling environment for the widespread adoption of renewable energy technologies in agriculture. By engaging policymakers and decision-makers, we seek to influence policy agendas, shape regulatory frameworks, and promote investment incentives that support the integration of renewable energy solutions into agricultural practices, thereby fostering environmental sustainability and economic development.

Key Themes

- **Solar Energy in Agricultural Irrigation:**
  - ✓ Innovative techniques for efficient and sustainable irrigation.
  - ✓ Solar-powered pumping solutions for agricultural water supply.
- **Solar Drying of Agricultural Products:**
  - ✓ Innovative technologies for solar drying.
  - ✓ Impact on the quality and shelf life of crops.
- **Solar Heating/Cooling for Agricultural Greenhouses**:
  - ✓ Solar heating systems for optimal crop growth.
  - ✓ Solar cooling solutions to maintain ideal conditions.
- **Integration of Renewable Energy in livestock farms:**
  - ✓ Energy optimization of poultry farms through thermal solutions.
  - ✓ Integration of advanced technologies for animal thermal comfort.
- **Bio-energy in Agriculture:**
  - ✓ Energy valorization of agricultural waste.
  - ✓ Biorefinery for versatile use of biomass.
- **Integration of Renewable Energy in Aquaculture:**
  - ✓ Sustainable energy solutions for aquaculture farms.
  - ✓ Role of renewable energies in preserving aquatic ecosystems.
- **Application of Mathematical Modeling and Artificial Intelligence in Agricultural Energy Systems:**
  - ✓ Integration of mathematical modeling and artificial intelligence across various agricultural energy systems for optimization, prediction, and decision-making.



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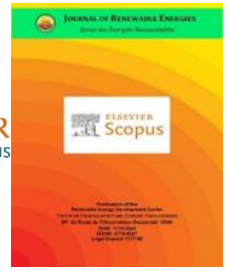

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Conference Chairman

Honorary Chairman: Pr. Noureddine Abdelbaki; director of the Renewable Energy Development Center (CDER).

Chairman: Dr. Djelloul Djafer, director of the Applied Research Unit in Renewable Energy (URAER)

Organization committee

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- **Dr.** Djamel DAOUD, leader of the Energy System for Agriculture team (SEA, URAER-Ghardaïa),)

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- Issam HASRANE, PhD student, University of Ouargla, Algeria
- Mohammed Abdelbassit KHERRAFi, PhD student, University Tlemcen. Algeria.

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- Pr. Khodir MADANI, University of Béjaïa, Algeria
- Pr. Salah Hanini, University of Médéa, Algeria
- Pr. Abdallah Zagaoui, University of Ghardaïa, Algeria

Registration fees

- **Regular participants:**

Registration	Without accommodation		With accommodation	
	Locale	Others	Locale	Others
PhD student	7000 DA	100 €	18 000 DA	200 €
academic	15 000 DA	150 €	25 000 DA	300 €
Industrial	20 000DA	200 €	30 000 DA	350 €

- **Online participants:**

Registration	Without accommodation	
	Locale	Others
PhD student	4 000 DA	50 €
Others	8 000 DA	100 €

- **The conference fees include:**

- **Without accommodation**: Conference bag, Publication fees (for author registration only), Coffee breaks and lunch for 02 day
- **With accommodation:** Conference bag, Publication fees (for author registration only), Coffee breaks, lunch and dinner for 02 days, and accommodation for two nights.
- You will receive a confirmation email and further information after we receive your registration form and other registration files.
- You can download the registration form from the conference website https://icreaa.org/registration/

Important dates

- Deadline for submission of abstracts and/or articles: October 15, 2024.
- Notification of final acceptance: October 30, 2024.

Contacts

The Energy System for Agriculture team

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Conference site: **https://icreaa.org/** **Mail:** icarea2024@gmail.com

Presentation of abstracts and articles

- ✓ Authors are invited to submit their abstracts or articles by the Template downloadable from the seminar website.
- ✓ Accepted articles are only intended for publication in indexed scientific journals.
- ✓ Maximum number of pages: 08.
- ✓ Abstracts or articles must be sent by the CMT system (https://cmt3.research.microsoft.com/User/Login?ReturnUrl=%2FICREAA2024) in PDF format.
- ✓ Icreaa-2024 languages: Arabic, French and English.

Organization committee

All accepted articles will be published in one of the following journals:

- **Journal of renewable energies**; indexed/Abstracted in Scopus, DOAJ, Google Scholar, Wordcat Database, Mir@bel, Pascal and Francis Bibliographic Databases, Road.
- **The Journal of Solar Energy and Sustainability Development** (JSESD); indexed in: ELSEVIER Scopus, Google Scholar, DOAJ, ROAD, Crossref, ORCiD, AJOL, Zenodo, Arcif Analytics.).
- Advances in Science and Technology – Details (ISSN: 1662-0356**);** Indexed dans: Scopus, Google Scholar, NASA Astrophysics Data System (ADS) ProQuest…etc.
- **Advances in Science, Technology & Innovation (ASTI)**; indexed in Scopus
- **Proceedings of the Institution of Mechanical Engineers, Part A: Journal of Power and Energy**

The Town of Ghardaïa

The Wilaya of Ghardaïa is located 600 km south of the Algerian capital. It is considered a tourist destination par excellence and has an exceptional tangible and intangible heritage that attracts national and international tourists. It is famous for its picturesque oases, ancient markets, golden sand, and Mineral Baths located in Zelfana. It is also famous for its various traditional industries and distinctive traditions. This region is experiencing growing dynamics in the tourism and crafts sector. The numerous cultural, environmental, and agricultural sites make Ghardaïa a privileged place for the promotion of sustainable tourism, which contributes to enriching the local and national economy.

The wilaya of Ghardaïa has a total agricultural area of 724,612 ha, including nearly 24,000 ha of 100% irrigated useful agricultural land and 700,541 ha of rangeland, according to MADR data. The wilaya has significant agricultural production potential for integrated exploitation and the development of agro-industrial sectors (plasticulture, phoeniciculturist, olive growing) like the dairy basin. The prominent place given to strategic crops is motivated by the desire to create agricultural centers intended for intensive agriculture in the South, rich in water resources, mobilized by the creation of boreholes and their connection to electrical energy, to ensure food security and reduce import bills, which should be reinforced by agri-food processing and conservation activities to create jobs for the juvenile population. Finally, the improvement in living conditions and the demographic growth recorded during these years encouraged the development of another, more intensive form of agriculture, which this time can only be implemented outside of this region.

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