Times Higher Education Sustainability Impact Ratings

University: Al-Mustaqbal University

Country: Iraq

SDG 7.4: Energy and the community

7.4.5: Does your university as a body provide assistance for start-ups that foster and support a low-carbon economy/technology?

Yes, Al-Mustaqbal University used provides assistance for the start-ups by workshops, training, and research and development. AL-Mustaqbal University organized workshops and training sessions that equip entrepreneurs with the skills and knowledge needed to develop sustainable models of business and technologies.
Next, our faculty and research centers provide support in research and development, helping start-ups improve and enhance their products. In addition, the university hosts events where start-ups can network with industry experts and investors that fostering collaboration and growth.

Some of the Evidence:
https://uomus.edu.iq/UnitsAndDivisions/NewsDetails/100234

https://uomus.edu.iq/UnitsAndDivisions/NewsDetails/104967

https://uomus.edu.iq/UnitsAndDivisions/NewsDetails/99452

https://uomus.edu.iq/UnitsAndDivisions/NewsDetails/98630

https://uomus.edu.iq/UnitsAndDivisions/NewsDetails/98677

https://uomus.edu.iq/UnitsAndDivisions/NewsDetails/98673

https://uomus.edu.iq/UnitsAndDivisions/NewsDetails/97611

https://uomus.edu.iq/UnitsAndDivisions/NewsDetails/97201

https://uomus.edu.iq/UnitsAndDivisions/NewsDetails/97195

https://uomus.edu.iq/UnitsAndDivisions/NewsDetails/97199
https://uomus.edu.iq/UnitsAndDivisions/NewsDetails/105714

https://uomus.edu.iq/UnitsAndDivisions/NewsDetails/105705

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https://uomus.edu.iq/UnitsAndDivisions/NewsDetails/105626

https://uomus.edu.iq/UnitsAndDivisions/NewsDetails/105561

https://uomus.edu.iq/UnitsAndDivisions/NewsDetails/105559

https://uomus.edu.iq/UnitsAndDivisions/NewsDetails/105556

https://uomus.edu.iq/UnitsAndDivisions/NewsDetails/105510

https://uomus.edu.iq/UnitsAndDivisions/NewsDetails/105421

https://uomus.edu.iq/UnitsAndDivisions/NewsDetails/104910

https://uomus.edu.iq/UnitsAndDivisions/NewsDetails/104783

https://energy.uomus.edu.iq/Department/Details/89623

A- The "Solar Energy Hackathon" course lectures continued with a specialized lecture on the components of photovoltaic systems.
https://uomus.edu.iq/CollegeEn/Details/105638

B- A field trip for engineering students to view the solar energy systems installed on campus
https://uomus.edu.iq/UnitsAndDivisionsEn/NewsDetails/106109

C- The Energy Research Centre at Al-Mustaqbal University announces the establishment of a free course titled “Course on Concepts and Foundations of Renewable Energy”. In this free course, the centre introduced the main principle and resources of the renewable energy and their critical rules in reducing emissions and providing sustainable future of the energy.

For more information, please visit:
https://uomus.edu.iq/NewCol.aspx?newid=27137

D- In support of the start-ups, the first training course organized by the Al-Mustaqbal Energy Research Center in collaboration with the College of Engineering and Engineering Technologies was held. The course began with a lecture presented by Dr. Azhar Mohsen Abdul, Dean of the College of Engineering and Engineering Technologies, where he discussed the fundamental principles of designing and

operating solar-powered water pumping systems. The lecture included several detailed steps, which are:

1- Determining the daily water requirement.
2- Calculating the total height required for water pumping.
3- Studying and assessing solar radiation data.
4- Calculating the pumping rate based on peak solar hours.
5- Selecting the appropriate pump according to the system requirements.

6- Choosing a motor that matches the pump's speed and torque characteristics.
7- Determining the most suitable system for operating the pump.
8- Selecting the essential components of the solar system.
9- Identifying the most suitable solar modules for the system.







https://uomus.edu.iq/NewCol.aspx?newid=29035

E- Al-Mustaqbal University supported the students that had small company on the energy sector. For example, the student “Ahmed Abdulrassol” had air conditioning workshop supported financially by Al-Mustaqbal University.

Below, is one of his activities in maintenance in Al-Imam Al-Sadeq Hospital in

Babylon government.







Evidence Link: https://uomus.edu.iq/NewDep.aspx?depid=2&newid=11662

F- Research and development (R&D) Resources

Al-Mustaqbal University has been establish two center for research (Al-Mustaqbal center for energy research and Al-Mustaqbal AI Research center) that provide and offer R&D grants or incentives for projects that aim to reduce carbon emissions and energy project .

Two projects along with their objectives have been funded as flows:

1- **(Energy Transformation Technologies in the Universities) under grand number (Project No: 2/2024-2025)**

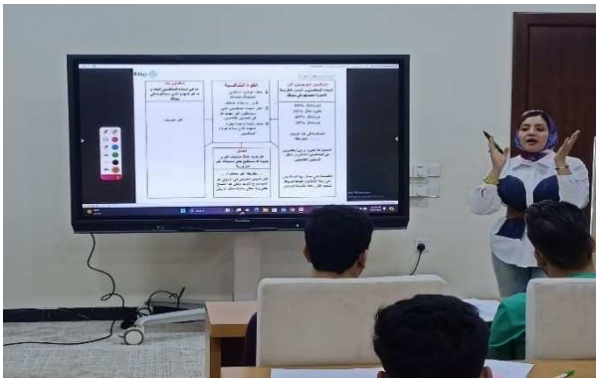
2- (The Role of Universities in Confronting the Challenges of Climate Change) under grand number (Project No: 1/2024-2025).

	
(uomus.edu.iq)	(uomus.edu.iq)

G- **Mentorship and Advisory Support**

This involves the trainees' projects with innovative ideas that are within the goals of sustainable development. Where the role of the University of the through this initiative is to motivate youth groups, students and graduates to interact with the variables of the labor market and technological development, as well as the investment of individual skills, and it lasted for (5) consecutive days



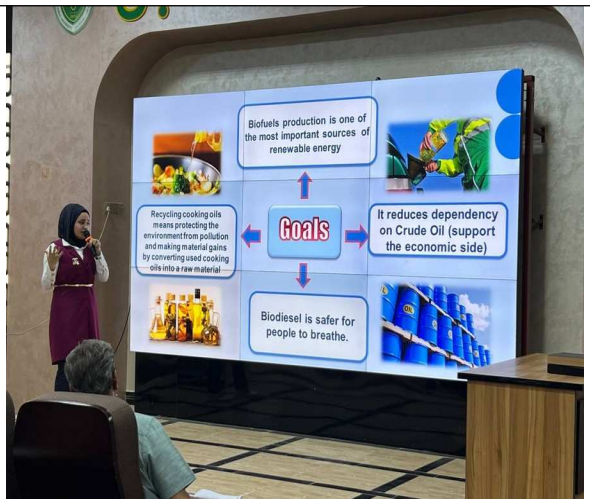


H- Educational workshops and Training

The first training course on the concepts and fundamentals of renewable energy was conducted by Assistant Professor Dr. Azher Mohsen Abed, with the attendance of a large number of participants from various disciplines. During the course, Dr. Azher delivered a comprehensive lecture covering several key topics on renewable energy, including an introduction to renewable energy, its types, and its importance in achieving sustainable development. The lecture also highlighted the latest technologies used in this field and the challenges of implementing them in Iraq and the region.

https://uomus.edu.iq/CollegeEn/Details/95602









Evidence Link:

https://uomus.edu.iq/CollegeEn/Details/95602

I- Al-Mustaqbal Center for Energy Research hosted a training course on “Installation and Operation of Solar-Powered Water Systems” for the employees of the Babylon Agriculture Department.



Evidence Link:

https://uomus.edu.iq/CollegeEn/Details/29069

J- Partnership with Industry and Government

1- Al-Mustaqbal University hosted its Second Annual Event on Sustainable City, emphasizing its commitment to fostering sustainability in urban development. This event brought together academics, industry professionals, policy-makers, and students to discuss and showcase innovative approaches to creating more sustainable cities in Iraq and the region.



2- The First Forum of Al-Mustaqbal University for Water Sustainability and Climate Change was a landmark event dedicated to addressing two of the most pressing global challenges: water scarcity and climate change. Held at Al-Mustaqbal University, the forum aimed to bring together experts, researchers, and policymakers to discuss innovative solutions and strategies for ensuring water sustainability in the context of a rapidly changing climate.





Key Objectives of the Forum:

1. Raising Awareness:

The forum sought to raise awareness of the critical water sustainability issues facing Iraq and the region, highlighting the urgent need for effective water management solutions in the face of climate change.

2. Collaborative Dialogue:

By bringing together academic, government, and industry experts, the forum fostered a collaborative dialogue on the intersection of water sustainability and climate resilience, encouraging interdisciplinary solutions.

3. Research and Innovation:

The event showcased cutting-edge research from the university and beyond on topics such as water resource management, renewable energy integration in water systems, and innovative agricultural practices aimed at reducing water consumption.

Key Highlights of the Event:

1. Expert Panels and Discussions:

The forum featured panels of leading experts in hydrology, environmental science, climate change policy, and water management, who discussed the impact of climate change on water resources and shared innovative approaches to mitigation and adaptation.

Themes included:

•Sustainable water resource management in arid regions.

• Climate change impacts on agriculture and food security.

• Advanced technologies for water recycling and desalination.

2. Policy and Governance:

• The forum engaged policymakers in discussions on the role of government regulations and international cooperation in promoting water sustainability, particularly in regions like Iraq that are vulnerable to water scarcity due to climate change and geopolitical factors.

3. Student and Research Engagement:

• Al-Mustaqbal University's students and researchers presented their projects focused on local and regional water sustainability solutions. These projects underscored the importance of involving younger generations in solving global environmental challenges.

4. Sustainable Solutions Exhibition:

• An exhibition during the forum showcased innovative water-saving technologies, renewable energy systems for water treatment, and sustainable agricultural solutions developed by start-ups, research institutions, and environmental organizations.

5. Partnerships and Collaborations:

• New partnerships were formed between Al-Mustaqbal University and key stakeholders, including government bodies, NGOs, and private sector companies. These partnerships aim to enhance collaboration on water sustainability projects and climate change adaptation initiatives.

Outcomes and Impact:

• Action Plans: The forum concluded with the development of action plans to enhance water sustainability efforts in Iraq. These plans focused on implementing technology-driven solutions and promoting climate resilience in water management policies.

• Capacity Building: It also emphasized capacity building, with the aim of empowering local communities and institutions to address water sustainability challenges through education and technical training.

K- Sustainable Infrastructure Support

Al-Mustaqbal University has taken significant steps towards sustainability by installing solar panels on all our buildings and implementing energy-efficient labs that optimize energy use based on demand.

These initiatives not only reduce carbon footprint but also provide a practical learning environment for our students and researchers. By integrating renewable energy and efficient

practices into our operations, we are committed to fostering a culture of sustainability that supports our community and the environment**.**



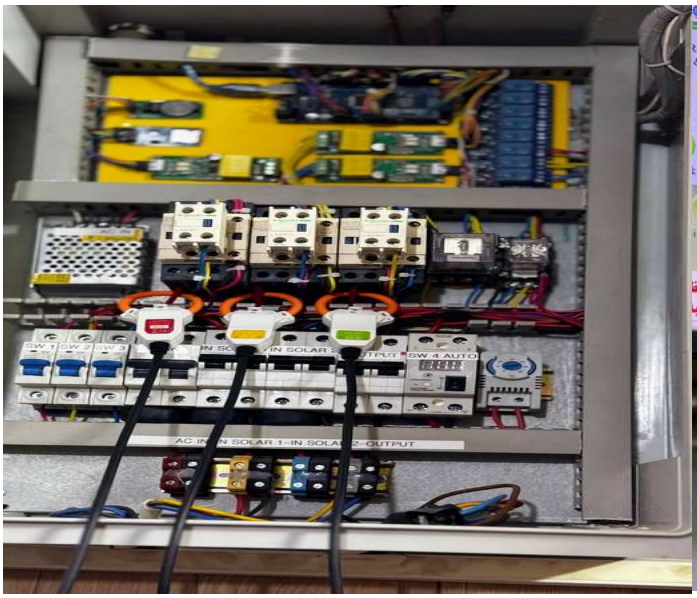













Lighting
Window curtains
Temperature control
Monitoring
Access & Security
Parking door
Heating and Cooling
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اعداد : الطالب : احمد حسن عبد
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