Times Higher Education Sustainability Impact Ratings

University: Al-Mustaqbal University

Country: Iraq

SDG 7.4: Energy and the community

7.4.1: Does your university as a body provide programmes for local community to learn about importance of energy efficiency and clean energy?

Response: Yes, Al-Mustaqbal University has provided several programmes about the importance of the energy efficiency and clean energy. Some of them will be described below:

Some evidences:
https://energy.uomus.edu.iq/NewDep.aspx?depid=81&newid=89623
https://uomus.edu.iq/College/Details/105265
https://edu.uomus.edu.iq/NewDep.aspx?depid=59&newid=85120
https://uomus.edu.iq/NewDep.aspx?depid=2&newid=8659
https://uomus.edu.iq/UnitsAndDivisions/NewsDetails/105684

There are some goals that the university seeks to achieve during the coming period:

A- Preparation to include programs in energy conversion and management inside the main campus infrastructure and boards in the syllabus.

B- AL-Mustaqbal University has engaged with the local community by hosting events focused on renewable energy solutions. This includes inviting guest speakers and collaborating with environmental groups to promote sustainable practices.

https://edu.uomus.edu.iq/En/NewColl.aspx?newid=81162&colid=31

Al-Mustaqbal University has set clear sustainability goals that support the complete transitioning to 100% renewable energy through various channels, such as community outreach. For example Al-Mustaqbal engaged in a specialized seminar on sustainable development at the Ministry of Planning of the Iraqi government



https://uomus.edu.iq/NewCol.aspx?newid=28635

D. In addition, Al-Mustaqbal University celebrating the World Energy Day in cooperation with the Scientific Society for Energy Studies & Research, has organized a Scientific Forum under the slogan “Investment of Clean Energy is Our Route towards Sustainable Development.” This Forum, indeed, represents an opportunity to raise awareness about energy and its importance, in addition to investigating the challenges that might face this sector to ensure the provision of safe and sustainable energy for all. Besides, there is a necessity to work on developing national policies that could reflect the global energy perspective. We are obliged to note that several personalities have participated in the Forum representing the Ministries of Oil, Electricity and Environment, in addition to Researchers and Academics as well as owners of companies specialized in the field of energy. Attendees have mainly focused on discussing the applications of renewable energy and the type of threats that might face such utilizations. Moreover, raising awareness about the importance of energy and its consumption is highly required as agreed upon by everybody. Thus, we could positively move ahead towards the implementation of Sustainable & Clean Energy.

The Forum has included several issues, classified into three sessions. The first session has incorporated five lectures. They are as follows:

1. Patents & Their Applications in the Sector of United Energy, delivered by the Expert Mr. Ali Al-Bakri, Head of Engineering Accreditation Authority.

2. Uses of Solar Energy in Iraq: Challenges & Problems, delivered by Dr. Majid Al-Jabiri, Head of British Energy Centre, London.

3. Economic Feasibility of Using Solar Energy in Iraqi Oil Fields, delivered by Eng. Mr. Hashim Jasim Mohammad, Research Development Centre at the Ministry of Oil, Iraq.

4. Challenges of Shifting towards Renewable Energy, delivered by Eng. Mr. Haidar Al-Kfaishi, Head of Green Cities Organization.

5. Internet of Things for Renewable Energy in Iraq, delivered by Mr. Zahir Fadhil Rahim, Renewable Nano Energy Research Center, Al-Nahrain University

In addition to the five lectures of the First Session, there has been an exhibit of patent posters with energy and environment projects designed by Researchers, Academics, Graduate and Post-Graduate Students from the University of Babylon & Al-Qasim Green University.

The Second Session has included four lectures. They are listed below:

1. Energy, its Transformation & and Impact in Iraq, delivered by Dr. Mohammad Nasir, Oil Research & Development Centre, Ministry of Oil, Iraq.

2. Prospects and Future of Electric Power Generation in Iraq, delivered by Prof. Dr. Haroun Abdul Kadhim. College of Mechanical Engineering, University of Babylon.

3. An Introduction to the National Initiative for Energy Subsidy & Emissions Reduction, delivered by Eng. Mr. Muhannad Shakir Mahmoud, Central Quality Dept., Ministry of Electricity.

4. Electric Power Supplied by Generators: Reality & Solutions, delivered by Eng. Samah Shiyaa Ouda,

The Forum Activities have been concluded with a Dialogue Session in which two lectures have been delivered. These two lectures are

5. Use of Biogas to Produce Clean Energy from Landfills, delivered by Dr. Maytham Abdallah Sultan, Department of Environment & Water, Ministry of Science & Technology.

6. Green Hydrogen & Fuel Cells, delivered by Dr. Halima Jabir Mohammad

For his part, Prof. Dr. Hasan Shakir Majdi, Predisent of Al-Mustaqbal University, has given a speech, addressing the global challenges that might confront the Energy Sector due to war

crises, rise of fuel prices, pollution increase that results from using fossil fuels, and thus pushing the whole world towards clean and renewable energy. Indeed, the Forum, being organized by Al-Mustaqbal University, is deemed a contribution that mainly aims to achieve Sustainable Development Goals, and this could be accomplished by supporting the Energy Sector, reducing emissions and to become a Scientific Platform that can play an essential role in providing recommendations and proposals for the purpose of developing plausible solutions to these problems and challenges.





For more information, please visit:

https://www.uomus.edu.iq/NewColl.aspx?newid=66693&colid=25

Al-Mustaqbal University organized several awareness campaigns on the importance of renewable energy. The campaigns have focused on society and our students.

Some of these activities are:

A- Al-Mustaqbal Energy Research Center proudly inaugurated its first training course titled "Concepts and Foundations of Renewable Energy." This event marked a significant step in promoting knowledge and awareness of sustainable energy practices among participants from various disciplines.

The course attracted a large and diverse audience, including students, professionals, and faculty members, all eager to deepen their understanding of renewable energy. Dr. Azhar Mohsen Abd, a respected expert in the field, delivered an engaging and comprehensive lecture that set the tone for the training series.



For more information, please visit:

https://uomus.edu.iq/En/Units/Details.aspx?UnitID=19&NewsID=752

B- The College of Engineering and Engineering Technologies holds the third Clean Energy Forum.

Under the patronage of the President of Al-Mustaqbal University, Prof. Dr. Hasan Shakir, and under the supervision of the Dean of the Faculty of Engineering and Engineering Technologies, Assistant Prof. Dr. Azhar Mohsen Abdel, on the occasion of World Clean Energy Day, and within the university s initiatives to promote the Sustainable Development Goals, especially Goal 7 (Clean and Affordable Energy). In collaboration between the Faculty of Engineering and Engineering Technologies - Department of Power Mechanics Technology Engineering- Energy Research Center.



https://uomus.edu.iq/En/Units/Details.aspx?UnitID=19&NewsID=1091

C- The first practical training course specialized in modern industrial control using programmed logic controllers (PLC) and HMI screens - Level 1for controlling renewable

energy systems, concluded in cooperation between Al-Mustaqbal University Energy Research Center and Babylon University-Faculty of Engineering.



For more information, visit:

https://uomus.edu.iq/En/Units/Details.aspx?UnitID=19&NewsID=1124

D- Workshop on Energy Harvesting: Al-Mustaqba Energy Research Center, in coordination with the Deanship of the Faculty of Engineering and Engineering Technologies at Al-Mustaqbal University, organized a workshop and lecture on energy harvesting. M. Dr. Zainab Shaker Radif in the presence of the Dean of the College Dr. Azhar Mohsen Abd, Director of the Center and a number of professors of the University of Kufa. The lecture focused on the basic methods used to harvest energy from its various sources, especially harvesting energy from vibrational motion using besoalectic materials, which convert kinetic energy

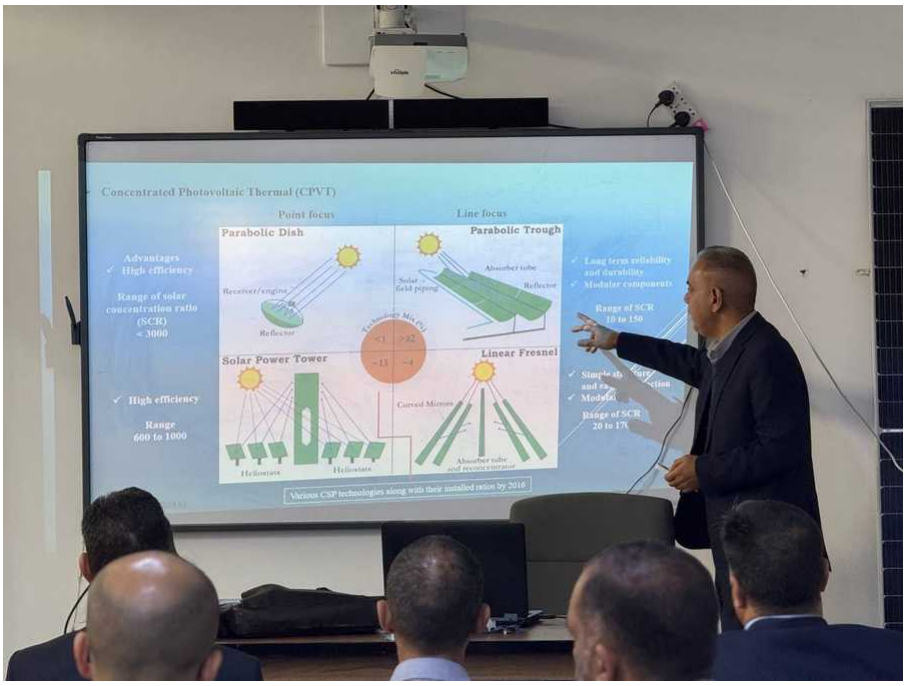
into electrical energy. This workshop promotes awareness on energy harvesting techniques, encourages cooperation between universities and research centers, and supports scientific research in the fields of renewable energy.



For more information, please visit:

https://uomus.edu.iq/En/Units/Details.aspx?UnitID=19&NewsID=1137

E- Al-Mustaqbal University, in cooperation with the Deanship of the Faculty of Engineering and Engineering Technologies at Al-Mustaqbal University, organized a workshop and lecture on the use of solar collector. The event was attended by the Dean of the and many faculty members from the University of Kufa. Hosted by A. M. Dr. Fayez Abdul Muslim to provide a specialized lecture on the use of solar cylindrical reflectors in the heating process, focusing on various heat exchangers.



For more information, please visit:

https://uomus.edu.iq/En/Units/Details.aspx?UnitID=19&NewsID=1139

F- An awareness campaign on waste recycling.

Waste recycling is important in biomass systems as it considered as a renewable energy sources. For example, the Department of Building and Construction Engineering held a scientific seminar titled "Recycling Beverage Containers." This seminar took place at Al-Mustaqbal University.

https://www.uomus.edu.iq/NewDep.aspx?depid=5&newid=23237

There are many workshops that have been completed by the university to teach the community, as attached in the following links:

Additional gathering and workshop can be found below:

A- Workshop on the solar energy thermal system in Al-Mustaqbal center for energy research

https://uomus.edu.iq/NewDep.aspx?depid=2&newid=61409

B- Workshop about Carbon footprint

https://uomus.edu.iq/NewDep.aspx?depid=2&newid=84482

C- Workshop about Ozon and carbon emissions

https://uomus.edu.iq/NewDep.aspx?depid=2&newid=28859

D- Workshop on the Heat pump and its applications in energy efficiency and emissions reduction

https://uomus.edu.iq/NewDep.aspx?depid=2&newid=61038

E- Seminar on technologies to improve energy efficiency and reduce emissions

https://uomus.edu.iq/NewDep.aspx?depid=2&newid=61472

F- Seminar on the renewable energy to the schools

https://uomus.edu.iq/NewDep.aspx?depid=2&newid=61477

G- SCIENTIFIC WORKSHOP ON METHODS OF CLEANING SOLAR CELLS

https://uomus.edu.iq/NewDep.aspx?depid=2&newid=15505

H- A scientific trip to the Hillah Comprehensive Power Plant for students

https://uomus.edu.iq/NewDep.aspx?depid=2&newid=63160

I- Seminar on steam power plant for clean environment

https://uomus.edu.iq/NewDep.aspx?depid=2&newid=62803

J- SCIENTIFIC SEMINAR ON THE IMPORTANCE OF HYDROELECTRIC ENERGY

https://uomus.edu.iq/NewDep.aspx?depid=2&newid=15977

K- Workshop on wind energy

https://uomus.edu.iq/NewDep.aspx?depid=2&newid=60856

L- Workshop on geothermal energy

https://uomus.edu.iq/NewDep.aspx?depid=2&newid=39669

M- Workshop on designing an air-cooling system for a hybrid vehicle: a promising technique in emission reduction

https://uomus.edu.iq/NewDep.aspx?depid=2&newid=50574

N- TRAINING WORKSHOP ON MEASURING DEVICES FOR SOLAR ENERGY SYSTEMS

https://uomus.edu.iq/NewDep.aspx?depid=2&newid=16048

O- PRACTICAL WORKSHOP FOR STUDENTS OF THE FOURTH STAGE ON THE PARABOLIC TYPE SOLAR HEATER SYSTEM

https://uomus.edu.iq/NewDep.aspx?depid=2&newid=16606

P- Workshop about Ozon and carbon emissions

https://uomus.edu.iq/NewDep.aspx?depid=2&newid=28859

Q- SCIENTIFIC WORKSHOP ON METHODS OF CLEANING SOLAR CELLS

https://uomus.edu.iq/NewDep.aspx?depid=2&newid=15505

R- SCIENTIFIC SEMINAR ON THE IMPORTANCE OF HYDROELECTRIC ENERGY

https://uomus.edu.iq/NewDep.aspx?depid=2&newid=15977

S- TRAINING WORKSHOP ON MEASURING DEVICES FOR SOLAR ENERGY SYSTEMS

https://uomus.edu.iq/NewDep.aspx?depid=2&newid=16048

T- PRACTICAL WORKSHOP FOR STUDENTS OF THE FOURTH STAGE ON THE PARABOLIC TYPE SOLAR HEATER SYSTEM

https://uomus.edu.iq/NewDep.aspx?depid=2&newid=16606

U- Seminar about Carbon Emission

https://uomus.edu.iq/NewDep.aspx?depid=2&newid=84482

Al-Mustaqbal Energy Research Center at Al- Mustaqbal University announces several activites, such as workshops, seminars, webinars, trainging and even lectrues about renewable energies and applications. In addition, the center offers 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.

More than **a hundred activities** have been achieved by the center focused on renewable energy and its impact on climate change. For more information about these activities, please visit the main webpage of the center:

https://energy.uomus.edu.iq/en/Units/News.aspx?UnitID=19

https://uomus.edu.iq/NewCol.aspx?newid=27137

E. Al-Mustaqbal University organized “The 3rd International Conference on Sustainable Energy Future”

Under the patronage of His Excellency the Minister of Higher Education and Scientific Research, Dr. Naim Al-Aboudi, and under the supervision of the President of Al-Mustaqbal University, Professor Dr. Hasan Shaker Majdi, the activities of the 2nd International Conference on Sustainable Energy Future were inaugurated on Tuesday, February 20, 2024. The conference is part of Al-Mustaqbal University's Sustainability Week, which runs from the 17th to the 22nd, under the slogan "Climate Change and the Future of Generations." The conference was opened in the presence of the Deputy Minister for Scientific Affairs, Professor Dr. Haider Abd Dhahid, along with a number of directors-general, university presidents, assistant presidents, college deans, and representatives of government ministries. The welcoming speech was delivered by Assistant Professor Dr. Azher Mohsin Abd, Head of the Scientific Committee, who provided an overview of the participating research. A total of 42 scientific papers were presented by researchers from various Iraqi and international universities. Experts and consultants in the field of energy from around the world were also in attendance, including representatives from Malaysia, Australia, Finland, Oman, and China. The conference proceedings began with the first opening session, which featured speeches by:

- Professor Dr. Talal Youssef, an expert in renewable energy.
- Professor Dr. Steve Hill, an expert in mining and technological innovations, a member of the Australian Institute of Mining and Metallurgy, and the Global Regional Representative for Sustainable Resource Universities.
- Dr. Weng Pon, who holds a PhD in Artificial Intelligence and is responsible for establishing and developing academic institutions, as well as administrative and educational departments.

At the conclusion of the session, the speakers were honored with certificates and shields of appreciation by the Dean of the College of Engineering and Engineering Technologies, who

expressed his gratitude for the insightful and impactful lectures in the field of sustainability. For more information, please visit:

https://www.uomus.edu.iq/En/EnNewCol.aspx?depid=54&newid=91373





F. Al-Mustaqbal University organized the Third Engineering Forum for Graduation Projects entitled “Graduation Projects: “Creativity and Innovation towards a Sustainable University”. With the collaboration with the University of Babylon / College of Engineering, the Third Engineering Forum for Graduation Projects was held. The forum addressed several topics, including:

1- Mechanical and thermal applications.

2- Applications of renewable and clean energy.

3- Reducing the use of fossil fuels.

4- Environmental conservation and mitigating the greenhouse effect.

5- Carbon footprint and reducing gas emissions.





For more information, , please visit the website:

https://energy.uomus.edu.iq/en/Units/Details.aspx?UnitID=19&NewsID=1091

https://uomus.edu.iq/NewCol.aspx?newid=26307

In Addition, Al-Mustaqbal University celebrates the International Day for the Preservation of the Ozone Layer, and the College of Engineering and Engineering Technologies organizes a scientific seminar and awareness about to reduce energy consumptions and using clean energy sources as alternatives to preserve Ozone layer indirectly. Some of local communities were invited to show their opinion and ideas.





https://uomus.edu.iq/NewCol.aspx?newid=28895

Al-Mustaqbal University organized several awareness campaigns on the importance of renewable energy. The campaigns have focused on our local people and our students.

As part of the efforts to raise awareness about climate change, [Abrar Falah], a faculty member in the Department of Chemical Engineering and Oil Industries, along with Engineer Saba Fawzi, conducted an interactive survey targeting students. The aim was to measure their knowledge level regarding the causes and repercussions of climate change and to gather their opinions on possible solutions to mitigate its impact.



https://uomus.edu.iq/NewDep.aspx?depid=6&newid=62943

In pursuit of achieving sustainable development goals, a practical workshop was held on renewable energy devices and solar cell systems in the Renewable Energy Laboratory for third-year students, supervised by Engineer Muhammad Sabah Malik and Assistant Lecturer Mohsen Aliwi Nasser.



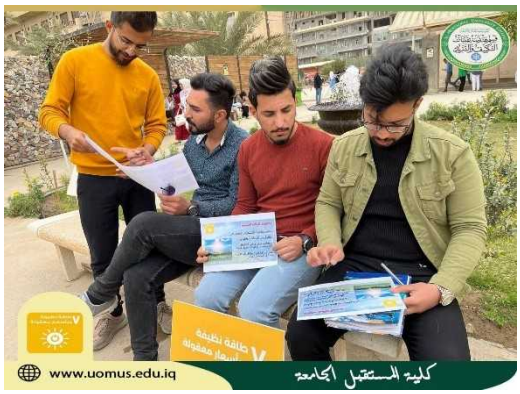
https://www.uomus.edu.iq/NewDep.aspx?depid=2&newid=60949

To raise awareness of renewable energy's importance in achieving affordable and clean energy, sustainability ambassadors from the Department of Mechanical Engineering participated in a workshop organized by the Energy Research Center. The event, attended by Dean Dr. Azhar Mohsen Abdul and supervised by lecturers Ali Baqir and Rasl Abbas, focused on solar energy systems, covering installation and maintenance with insights from experts. Participants emphasized adopting solar energy as a sustainable solution to energy challenges, highlighting the role of research and technology in improving energy efficiency and environmental protection.



https://uomus.edu.iq/NewDep.aspx?depid=2&newid=67659









On Saturday, June 21, 2025, the Medical Physics Department at the University of the Future organized a scientific workshop titled "Proposed Solutions to Overcome Technical Challenges in the Use of Solar Energy in the Industrial Sector." The event gathered researchers, engineers, faculty members, graduate students, and renewable energy specialists. The workshop aimed to highlight key technical barriers to adopting solar energy in industry, such as high initial costs, solar cell efficiency, maintenance, storage, and challenges related to integration with traditional industrial systems.



https://energy.uomus.edu.iq/NewDep.aspx?depid=81&newid=89623

As part of "Future Sustainability Week," the Biochemistry Department at the College of Science participated in a workshop organized by the Cybersecurity Department titled "The Evolution of Solar Energy Technology." The event was attended by faculty and students from various departments. Representing the Biochemistry Department was the head, Professor Nasser Abdul Hassan Nasser, along with several faculty members. This participation reflects the department's commitment to staying current with scientific advancements and sustainable technology.



https://energy.uomus.edu.iq/NewDep.aspx?depid=81&newid=89623

Al-Mustaqbal University has organized an awareness campaign entitled. The campaign was conducted by a distinguished group of our students and included the distribution of awareness brochures inside and outside the university.





https://uomus.edu.iq/NewDep.aspx?depid=2&newid=14876





https://uomus.edu.iq/NewDep.aspx?depid=2&newid=10350

The water consumption influences of the energy consumption as it the working fluid in various energy generation power plants such as conventional sources such as vapor power plants and renewable sources such as hydroelectric. So, Al-Mustaqbal University focuses on the importance of water and the best ways to consume and recycle. Several awareness have introduced by the university the students and faculty as shown in images below:







https://uomus.edu.iq/NewDep.aspx?depid=2&newid=11159

An awareness campaign on waste recycling. Waste recycling is important in biomass systems as it considered as a renewable energy sources.







https://uomus.edu.iq/NewDep.aspx?depid=2&newid=10944

Additional evidence link:

https://energy.uomus.edu.iq/NewDep.aspx?depid=81&newid=89623
https://uomus.edu.iq/College/Details/105265
https://edu.uomus.edu.iq/NewDep.aspx?depid=59&newid=85120
https://uomus.edu.iq/NewDep.aspx?depid=2&newid=8659
https://uomus.edu.iq/UnitsAndDivisions/NewsDetails/105684