جامعة الإمام عبدالرحمن بن فيصل
IMAM ABDULRAHMAN BIN FAISAL UNIVERSITY

SDG 7.4.2

100% Renewable Energy Pledge

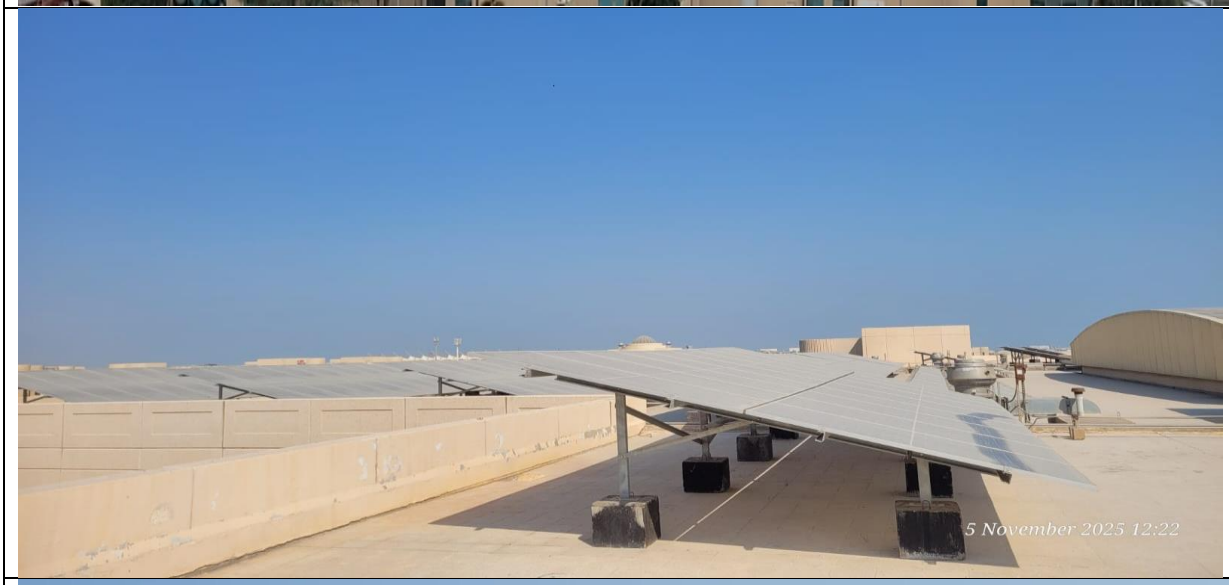
2024-2025

Table of Contents

Imam Abdulrahman Bin Faisal University (IAU) actively involved in renewable energy production and usage within the campus. It participated in various energy related events.

Find below some of our renewable energy related activities.

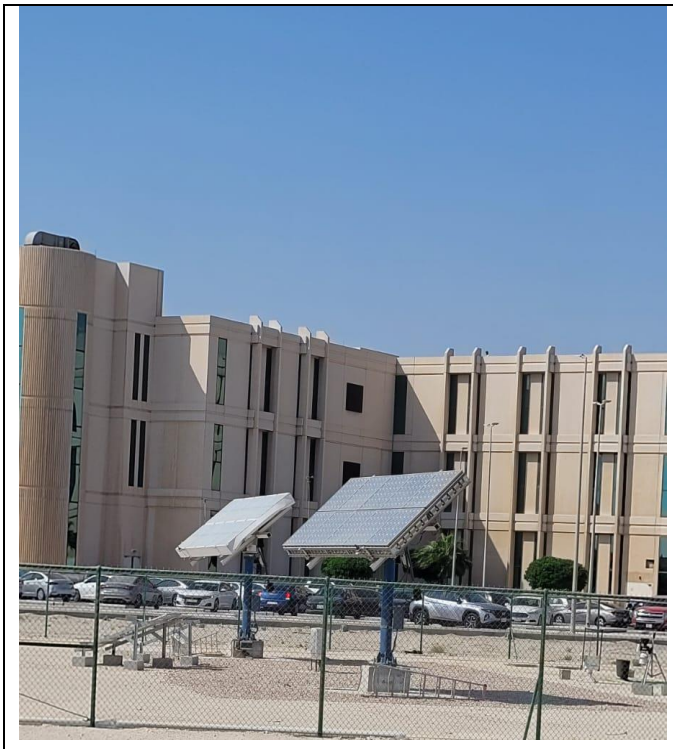
1. Renewable Energy Sources in IAU Campus



In all IAU Campuses the roofs of the buildings are installed with Solar panels

Solar Plants at IAU Open Spaces for Renewable Energy

Solar Panel as substitute to conventional electricity installed in the campus as part to reducing Greenhouse gas emission



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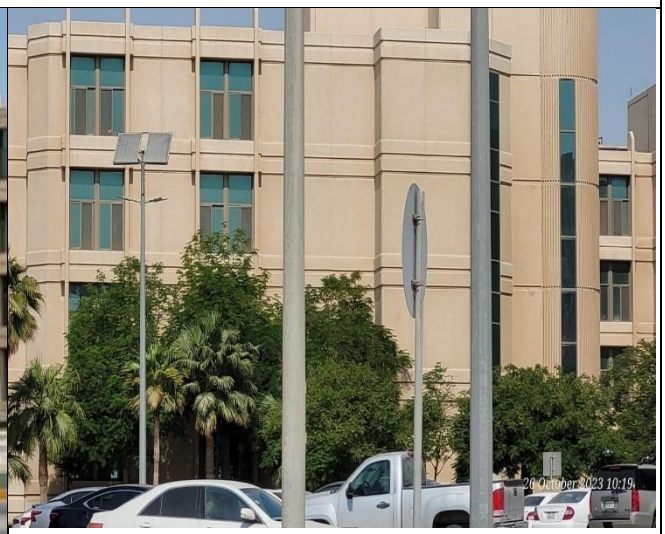
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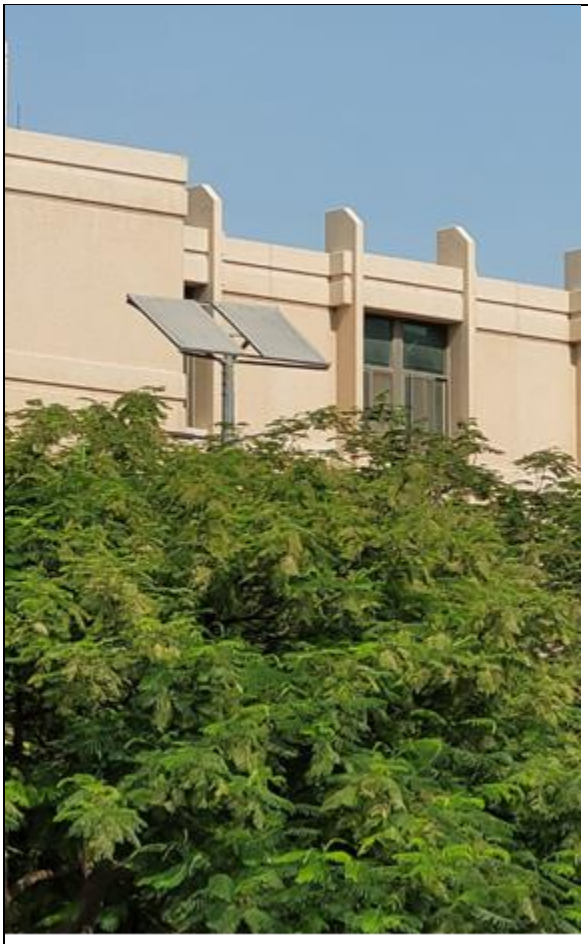


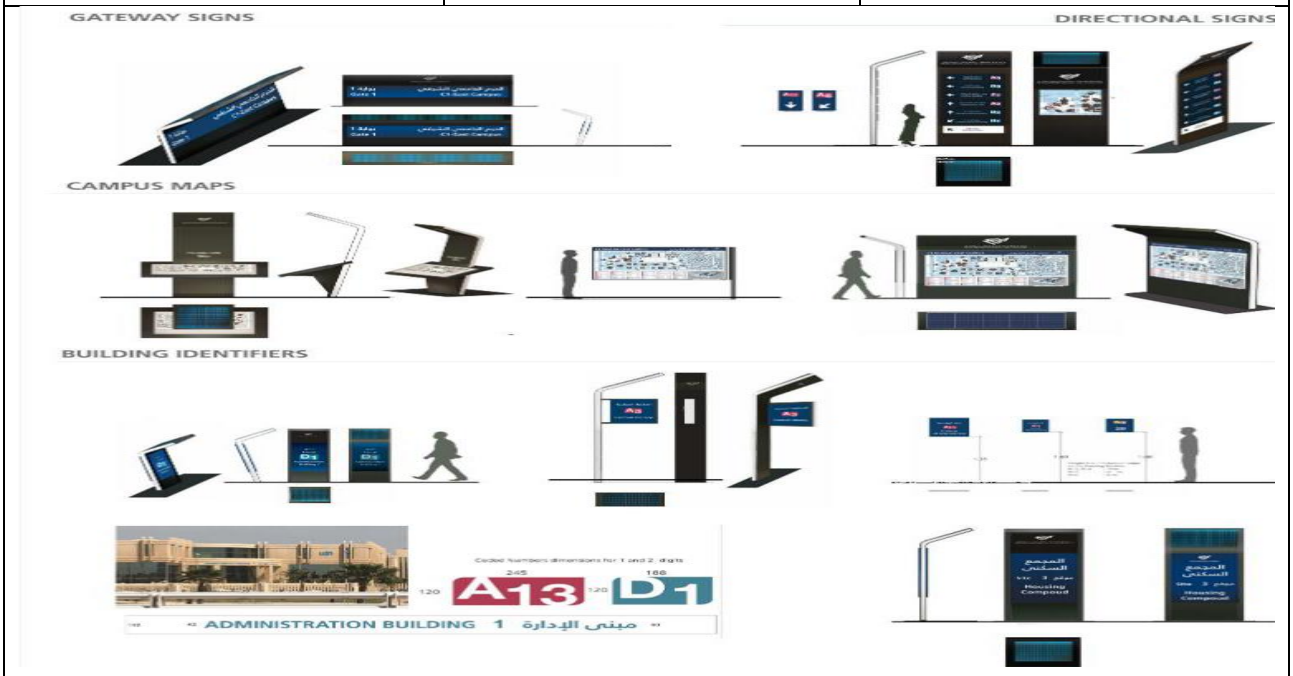
Solar Panels spread at IAU Campuses

Solar Panels installed all over the campus to provide energy for the purposes of lighting, heating, cooling, running university laboratories, etc.

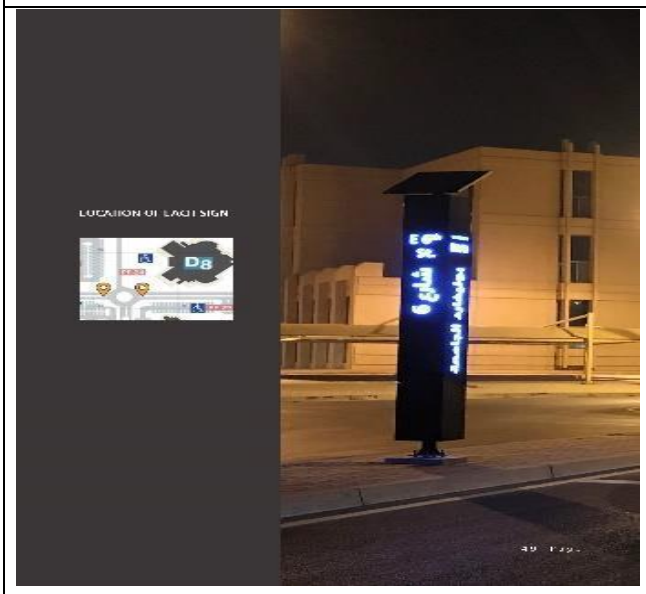
Renewable Energy Usage in Campus

Example of Energy Efficient Appliances Usage: Solar energy for map direction and board and light outside

EXAMPLES OF SIGNAGE & SOLAR LIGHTS IN IAU CAMPUS



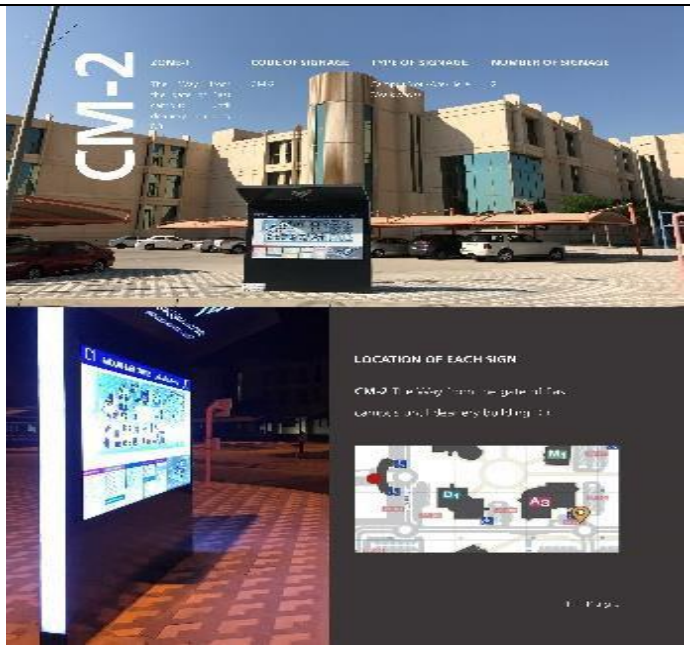
OUTDOOR SIGNAGE IN C1-EAST CAMPUS

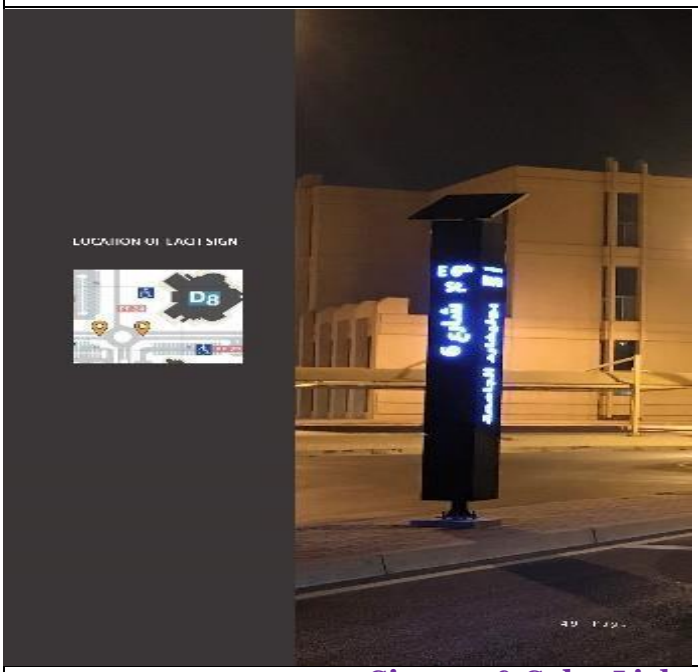


NIGHTVIEW OF SOLAR OUTDOOR SIGNAGE IN IAU CAMPUS

NIGHTVIEW OF SOLAR OUTDOOR SIGNAGE IN IAU CAMPUS

DAY-VIEW OF SOLAR OUTDOOR SIGNAGE IN IAU CAMPUS





Signage & Solar Lights in IAU Campus

NIGHTVIEW OF SOLAR OUTDOOR SIGNAGE IN IAU CAMPUS

DAY-VIEW OF SOLAR OUTDOOR SIGNAGE IN IAU CAMPUS

Description:

Currently, solar energy is used only for campus lights and signage in main campus.

The mega project is in pipeline to install solar panels in the university to have an alternate source of energy, which will help to be less dependent on electricity and reduced the electricity consumption.

Wind power plants are installed in IAU Campus as part of alternate sources of energy. Based on the initial observations and usage relevance to IAU campus many Wind power plants are going to be installed on the open spaces of IAU.

2. IAU College of Engineering Students won Second Place for Project producing Biofuel from Coffee Beans

We are proud of the Achievement of the students of #College_of_Engineering from the Department of Mechanical Engineering and Energy, Abdullah Al-Harbi, Jarrah Al-Qassim, Saud Al-Sarhani, Ibrahim Al-Yousifi, and Ghazi Al-Otaibi, who secured second place in the CITEthon Hackathon with their project to produce biofuel from coffee beans.

https://x.com/CE_IAU_SA/status/1912918031505686531

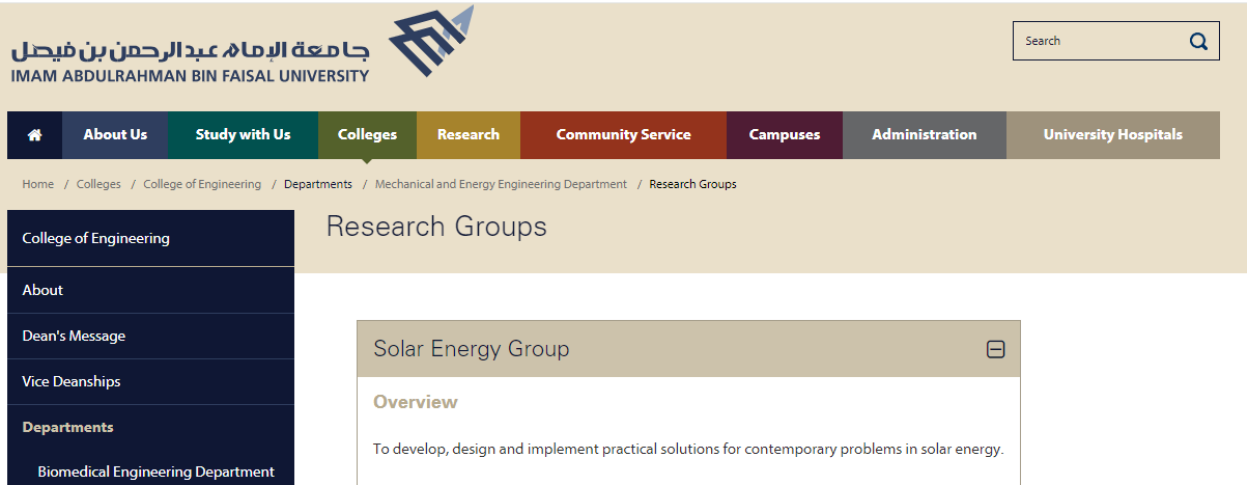
3. IAU Consulting Center for Buildings Energy

The given webpage link (refer to About section and Scope of work section) describes about the "consulting center for buildings energy", a body accredited by IAU Institute of Consulting Studies to deliver training and consulting services in field of engineering related rationalization of energy consumption. Its scope of work includes training, education and workshops in the areas of sustainability, green buildings and energy conservation. It also includes energy efficiency studies and audits of existing buildings; consultations about the efficiency of air conditioning systems; and consultations about the solar energy.

https://www.iau.edu.sa/en/administration/centers/institute-of-consulting-studies/services/experience-houses/consulting-center-for-buildings-energy

4. Research Groups at IAU for Renewable Energy

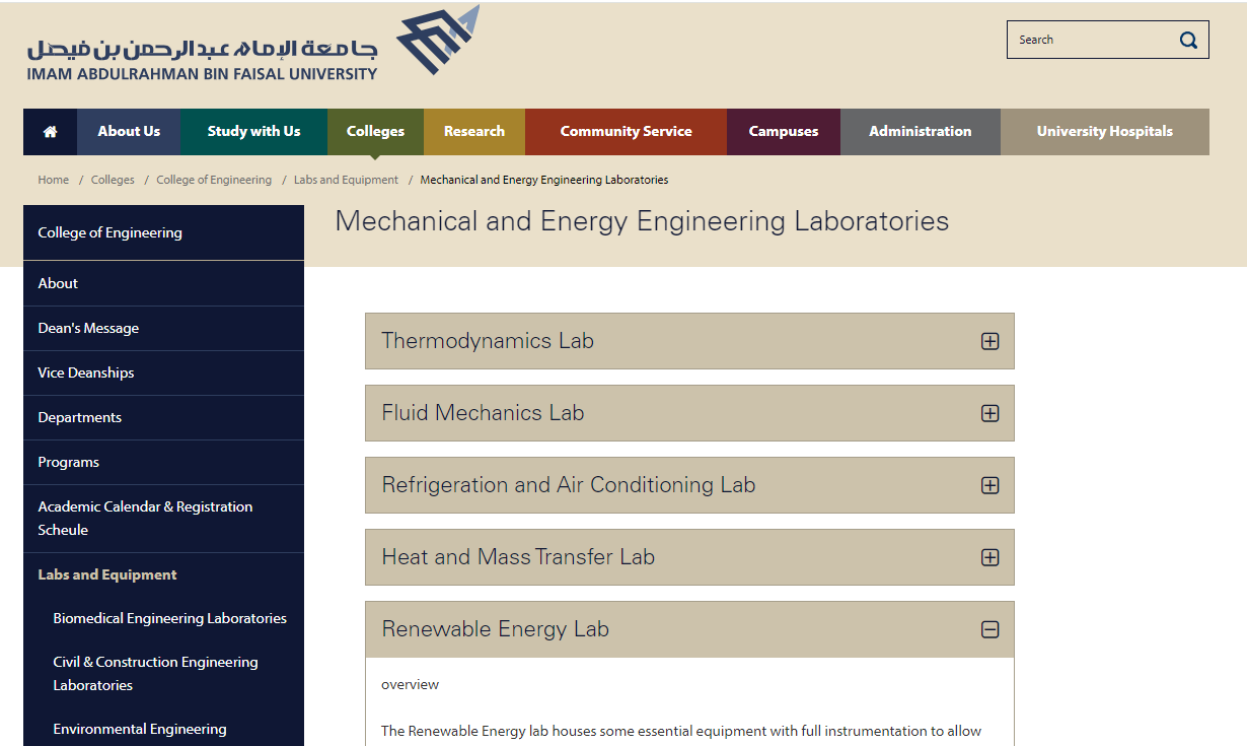
The given webpage link (refers to research groups section) shows the presence of the research groups in the College of Engineering of IAU. The research groups include solar energy group, wind energy group, and air conditioning and energy storage group. These research groups aim to develop, design, and implement practical solutions for contemporary problems in solar energy, wind energy, and air conditioning and energy storage. The objectives of these groups encompass conducting market-relevant commercial research, supervising students, cooperating with research, and publishing high-quality papers.



https://www.iau.edu.sa/en/colleges/college-of-engineering/departments/mechanical-and-energy-engineering-department/research-groups

5. Mechanical and Energy Engineering Laboratories at IAU

The given webpage link (refer to Mechanical and Energy Engineering Laboratories) shows the presence of the Mechanical and Energy Engineering Laboratories in the College of Engineering of IAU. Among various labs, the renewable energy lab is the one that has essential equipment with full instrumentation to allow students to investigate the effective use of solar energy as a renewable, environmentally friendly energy source.



https://www.iau.edu.sa/en/colleges/college-of-engineering/labs-and-equipment/mechanical-and-energy-engineering-laboratories

6. IAU Hosts International Webinar on Higher Education and Sustainability

Dammam – Imam Abdulrahman Bin Faisal University (IAU), represented by the Deanship of Academic Development, hosted an international webinar titled "University Education for Sustainability: Building Skills for Lifelong Impact" on Tuesday, November 26, 2024. The event was attended by Dr. Abdullah Al-Muhaidib, Vice President for Academic Affairs, who emphasized the university's commitment to sustainability through education and its role in empowering faculty members.

The webinar aimed to advance the integration of sustainability in higher education and enable faculty members to adopt practices that align with the Sustainable Development Goals. The event drew 245 participants, including faculty members and national and international experts.

https://www.iau.edu.sa/en/news/iau-hosts-international-webinar-on-higher-education-and-sustainability

7. IAU Strategic Plan 2018-2025

The given webpage link shows the Strategic plan of IAU 2018-2025. This plan explained its alignment between KSA Vision 2030 and IAU strategic goal V-Sustain IAU campus environment.

Under IAU Strategic Goal V, refer page no. 100, 101, 144, and 147, which describes about the Renewable Energy

- Initiative 3.2.4,
- Initiative 3.2.5

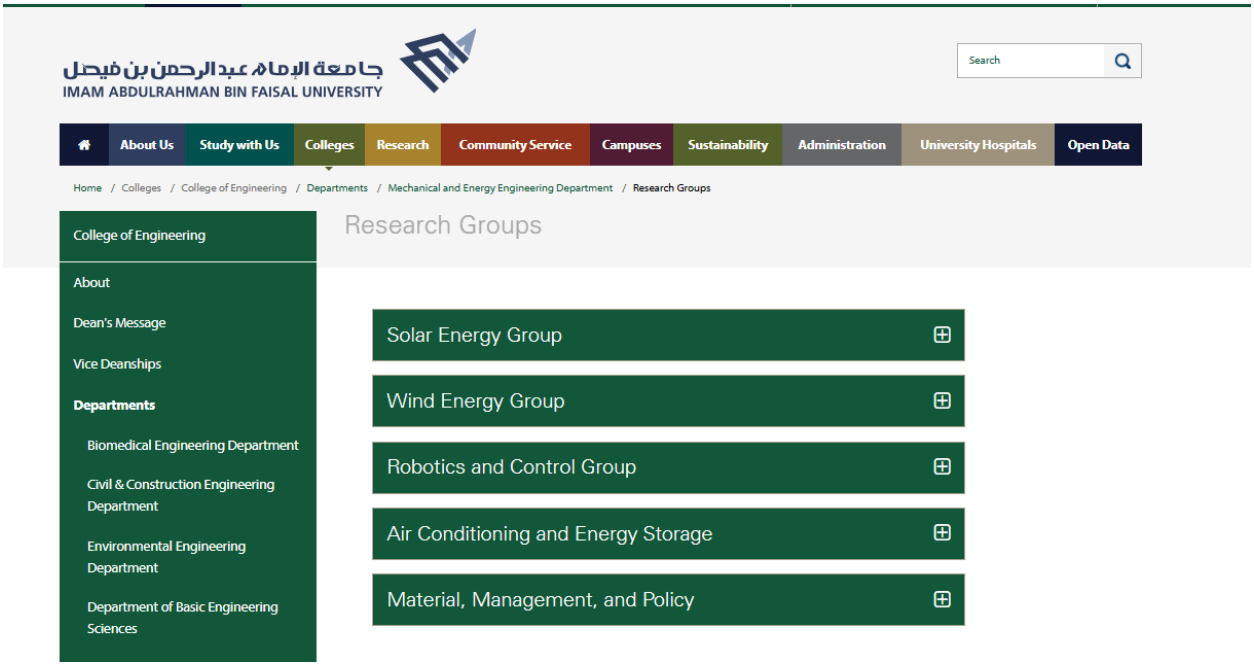
https://www.iau.edu.sa/sites/default/files/iau_straplan_en_20jun2019.pdf

8. Consulting Center of IAU towards Sustainable Built Environment

The given webpage link (refer 2nd paragraph first 4 lines) describes about a consultancy center established by College of Architecture and Planning of IAU. This center aims to take a leading role in directing the community towards a more sustainable built environment. It organizes a number of short training courses and offers professional services to both the public and private sectors.

https://www.iau.edu.sa/en/colleges/college-of-architecture-and-planning/deans-message

9. Research groups on Energy at IAU



https://www.iau.edu.sa/en/colleges/college-of-engineering/departments/mechanical-and-energy-engineering-department/research-groups

10. IAU Achieves 100% in the Field of Improving Energy Efficiency Consumption 2022

Imam Abdulrahman bin Faisal University obtained 100% in the scorecard for the year 2022 and the excellence award for the first category in the field of improving energy efficiency consumption, during a ceremony honoring distinguished government agencies in improving energy consumption for the year 2022, which was held by the Saudi Center for Energy Efficiency, in the presence of the Vice President for Administrative and Financial Affairs, head of the university's energy efficiency team, Prof. Dr. Abdulwahed Al-Mazrou, and many officials and representatives of government agencies. The university's win came for achieving 100% in the scorecard, which includes achieving levels of commitment in energy consumption after implementing a set of internal initiatives to improve energy consumption rates in all university facilities and buildings and university hospitals, including the application of the necessary standards to raise the efficiency of consumption, the adoption of the necessary models and guidelines, and the holding of technical workshops.

https://www.iau.edu.sa/en/news/iau-achieves-100-in-the-field-of-improving-energy-efficiency-consumption-2022

11. Signed a memorandum of understanding with the Gulf Laboratory Company for Electrical Equipment Inspection.

His Excellency the President of IAU Prof. Dr. Abdullah Al-Rubaish, signed a memorandum of understanding with the Gulf Laboratory Company for Electrical Equipment Inspection. The company was represented by CEO Eng. Saleh Al-Omari, in the presence of the Dean of the College of Engineering, Dr. Murad Al-Thubaiti.

https://twitter.com/IAU_KSA/status/1584520569055490048

12. Energy Efficient Building Practice at IAU

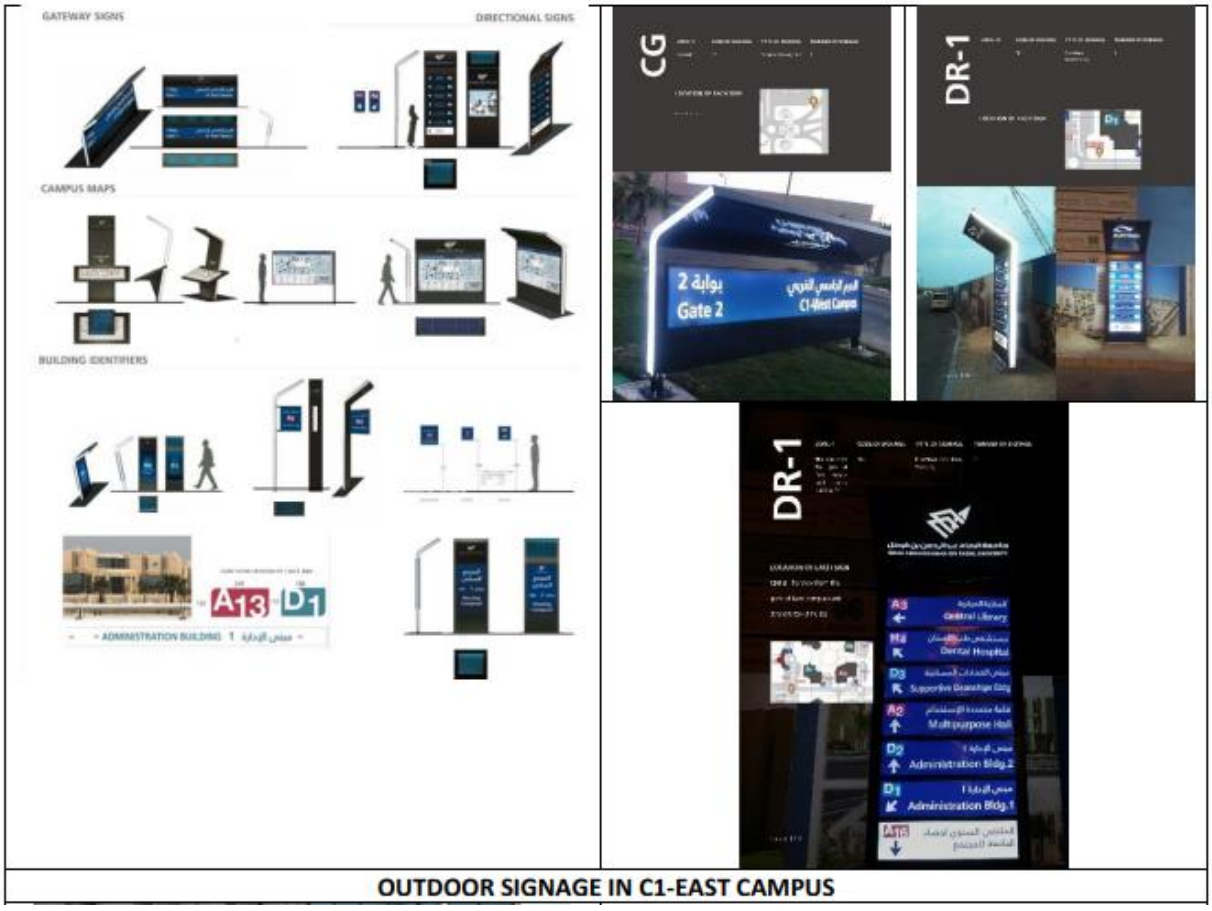
The given PDF link describes energy efficient usage in IAU in the following Parts:

- PART A: Sustainable system for Outdoor Signage
- PART B: Optimized Eco-friendly Buildings

Energy Efficient Appliances Usage in all the Buildings of IAU: Use of LED & fluoracent lighting and lamps with central clock system, centralized speaker & LCD Announcement screen

	
(Precast Concrete insulated panels and Curtain wall) Administration Building- IAU	**IAU implement and abide by Saudi Building Code in its all Construction and Electricity plan**

PART B



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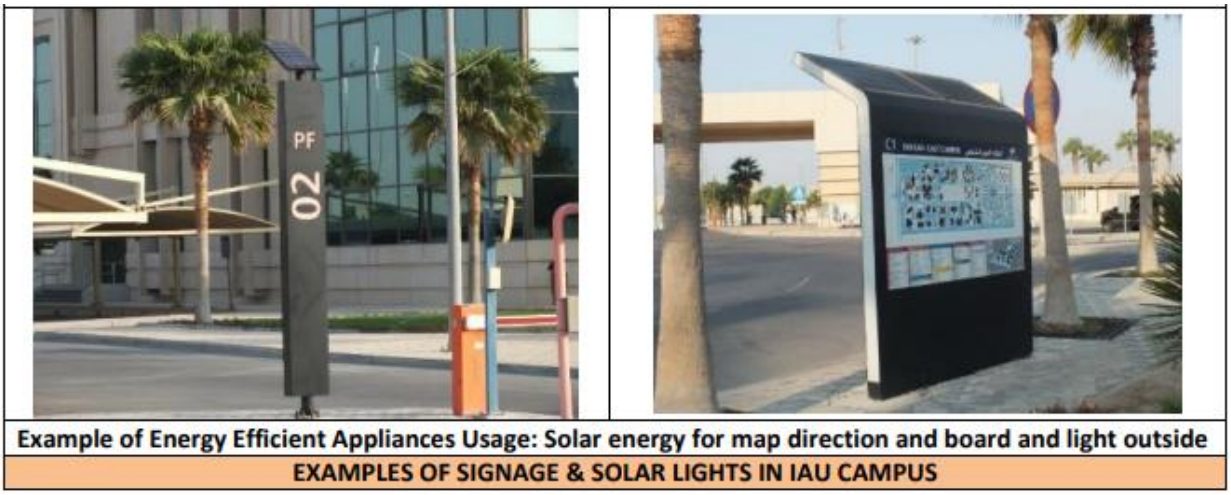

Example of Energy Efficient Appliances Usage: Solar energy for map direction and board and light outside

EXAMPLES OF SIGNAGE & SOLAR LIGHTS IN IAU CAMPUS

https://www.iau.edu.sa/sites/default/files/resources/energy_efficient_building.pdf

13. IAU Initiatives to achieve higher Energy Efficiency

The given PDF link explains the initiatives taken by IAU to achieve higher energy efficiency.

Photo solar systems installation initiative to reduce monthly electricity bill payments:

Electric and affordable shuttle buses for the student and faculty

https://www.iau.edu.sa/sites/default/files/resources/reduce_overall_energy_consumption_2022.pdf