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## *An energy efficiency plan in place to reduce overall energy consumption*

*Revised June 2022*

*Mutah University*

*Maintenance and sustainable unit*

Mutah University is actively implementing a series of initiatives and protocols aimed at optimizing energy usage across its campus, encompassing all operational units. The University has devised multiple strategies, executed by dedicated teams within its organization, to promote energy efficiency and security while embracing eco-friendly energy sources. Notable among these are :The Maintenance and Sustainability Unit, operating through its various departments, consistently assesses all energy production sources within the university campus. This diligent oversight guarantees that the University's energy requirements are met using sustainable and environmentally friendly energy sources. Here are some notable actions taken in pursuit of this goal.

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| ✓ All the electrical power of Mutah University is secured through the University's photovoltaic system with a capacity of 5 megawatts installed capacity inside the university campus. |
| ✓ The University adopted a plan to convert all facilities that need thermal energy to use natural gas, which is environmentally friendly and has low emissions instead of diesel fuel. |
| ✓ All university vehicles are powered by electrical power. It is forbidden to use conventional vehicles inside the university campus.  |

Furthermore, the University's efforts extended beyond physical infrastructure improvements to enhancing energy security and diversifying energy sources. Through its public education units, the University has actively promoted awareness among its employees and students regarding the importance of responsible energy consumption. This educational outreach has also encouraged the development of innovative initiatives to create fresh energy conservation opportunities. Here are some instances of energy-saving measures adopted by staff and students on campus:

Information and Monitoring	It is only possible to provide information on achievement against targets and the success of specific initiatives if we have the correct monitoring and reporting processes in place. This detail will also provide valuable feedback to users about their energy consumption levels.
Behavioral Change	The University has been successful in targeting specific behavioral changes through campaigns. Providing additional helpful information will allow these campaigns to be more targeted and an element of competition to be included.
Upgrade Existing Energy Supply Capability	Switching to natural gas instead of diesel oil
Introduce New Low-Carbon Sources of Energy	The University is keen to introduce diversification within the energy supply market, and this is to include sources of renewable energy. This set of initiatives includes the introduction of solar energy.
Encouraging constructive initiatives	Sun umbrellas, Lighting through solar energy for the streets, and others.

The table below shows the procedural plan based on the University's strategy to activate all procedures that ensure optimal use of energy as the implementation of this plan began in 2020. The work continues to achieve its goals in combination with the executive procedures until 2025—evidenced by the fifth goal of the procedural plan, which is concerned with developing the efficiency of human, financial, and material resources at the University following the best international practices.

[https://www.mutah.edu.jo/Documents/Action-Plan\\_ar.pdf](https://www.mutah.edu.jo/Documents/Action-Plan_ar.pdf)

Strategies	executive procedures	Implementation responsibility	Cost	Schedule	Performance indicators
<p>We are working on developing the University's facilities and using them effectively to contribute to increasing the University's production capacity, rationalizing expenditures, and using all available capabilities to achieve the University's goals.</p>	<ul style="list-style-type: none"> <li>✓ Completing the horizontal expansions of the infrastructure according to the standard specifications</li> <li>✓ Raising the operational efficiency of all university facilities, facilities, and services</li> <li>✓ Providing a highly reliable technical infrastructure for educational services and activities</li> <li>✓ Preventive and rehabilitative maintenance of facilities, facilities, and equipment</li> <li>✓ They are controlling the movement of financial transaction procedures.</li> <li>✓ Management and collection of financial dues by the student and donors.</li> <li>✓ Managing the University's operating financial expenses.</li> <li>✓ Cash management</li> <li>✓ Managing fixed assets and inventory in all units of the University. Achieving</li> </ul>	<p>*University administration *Relevant Departments</p>		<p>2020 To 2025</p>	<ul style="list-style-type: none"> <li>✓ Performance appraisal reports</li> <li>✓ Written reports from the Vice President for Financial and Administrative Affairs, managers of investment units, and feasibility studies.</li> <li>✓ Rationalize energy consumption by 20% of the base year and annually.</li> <li>✓ Rationalizing water consumption by no less than 20% of the base year and annually.</li> <li>✓ Completion of a waste recycling project</li> </ul>

	<p>operational efficiency for revenue collection.</p> <ul style="list-style-type: none"> <li>✓ Raising the efficiency and effectiveness of financial management.</li> <li>✓ Rationalizing electrical energy consumption by controlling the timing of turning on and off lighting and air conditioning units</li> <li>✓ Rationalizing water consumption and recycling in irrigation</li> <li>✓ Conducting the necessary studies to benefit from waste recycling</li> <li>✓ Using modern technologies that support energy and resource conservation trends</li> <li>✓ Carrying out technical studies for statistics and analysis of electrical energy consumption rates before and after the application of sustainability systems</li> </ul>			<ul style="list-style-type: none"> <li>✓ Studies on consumption rates</li> </ul>
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