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SUSTAINABLE DEVELOPMENT GOAL 7

Affordable and Clean Energy

ZIAUDDIN UNIVERSITY

Overview and Institutional Commitment

Energy management is particularly significant for Ziauddin University because teaching hospitals, laboratories, research facilities, libraries and multiple campuses require continuous and reliable energy. The University's approach rests on energy efficiency, resource conservation, operational reliability, continuous monitoring, preventive maintenance, responsible procurement and behavioural change.

Key Contributions and Initiatives

Energy Efficiency Initiatives

- Gradual replacement of conventional lighting with LED technology.
- Preventive maintenance of electrical systems.
- Optimization of heating, ventilation and air-conditioning (HVAC) operations where applicable.
- Promotion of energy-conscious behaviour among students and staff.
- Use of natural lighting and energy-efficient lighting systems in infrastructure design.
- Increased use of digital systems to reduce resource consumption.

Renewable Energy Opportunities

- The University has identified the following opportunities for assessment on technical feasibility, financial sustainability and institutional priorities: solar photovoltaic installations, solar water heating, renewable-energy feasibility studies, hybrid energy solutions and battery storage where appropriate.

Governance, Research and Learning

- Energy responsibilities are distributed across the Vice Chancellor, Campus Administration, Engineering & Maintenance, Finance, QEC and academic departments.
- Research on renewable energy applications in healthcare is a listed sustainability research theme.
- DCE students visited the Jhimpir Wind Energy Farm, exposing them to renewable energy systems (SDG 7, 9, 11, 12, 13, 15).

Indicators Monitored

The University monitors the following indicators relevant to this goal:

Indicator	Reporting Frequency
Electricity consumption	Annual
Fuel consumption	Annual
Energy efficiency initiatives	Annual
Renewable energy generation	Annual (where applicable)

Future Priorities (2026–2030)

Priorities identified in the Sustainability Report 2025–2026 that advance this goal:

- Improve overall energy efficiency across campuses.
- Assess the feasibility of renewable energy expansion.
- Strengthen greenhouse gas inventory systems.
- Expand renewable energy and energy-efficiency projects across all campuses (strategic recommendation).
- Increase renewable energy contribution where feasible.

Impact Assessment and Conclusion

Energy efficiency measures are under way, while renewable energy remains a forward-looking opportunity. Expanding renewable deployment is the clearest route to raising the SDG 7 impact level.