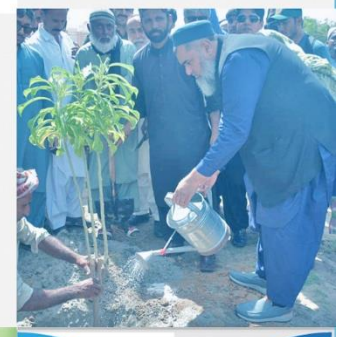
LIAQUAT UNIVERSITY
OF MEDICAL & HEALTH SCIENCES
JAMSHORO

OVERALL REPORT

On SDG-7 Affordable and Clean Energy















SDG 7: Affordable and Clean Energy

Liaquat University of Medical & Health Sciences (LUMHS), Jamshoro, is committed to Sustainable Development Goal 7, which seeks to ensure access to affordable, reliable, sustainable, and modern energy for all. The University recognizes that responsible energy use is central to institutional sustainability, financial prudence, and environmental protection, and it has adopted measures to improve energy efficiency and to increase its use of renewable energy across the campus. Solar power systems have been installed in various departments and administrative buildings, reducing reliance on conventional grid electricity, lowering operating costs, and cutting carbon emissions. These measures are supported by awareness campaigns, efficient lighting systems, and a culture of responsible energy use among students, faculty, and staff. Through its academic and research activities, LUMHS also builds understanding of sustainable energy solutions and their importance for public health, environmental protection, and economic development. By integrating renewable energy into its infrastructure and encouraging sustainable practices, the University contributes to the targets of SDG 7 in Sindh and beyond.

Saving Electricity

Energy-Efficient Building Design

The buildings of LUMHS are planned with energy efficiency and sustainability in mind. Architectural design makes the most of natural light and ventilation, reducing dependence on artificial lighting and air conditioning. Buildings are oriented to admit daylight while limiting heat gain, which helps maintain comfortable indoor temperatures. Energy-efficient materials and insulation improve thermal performance, while large windows, open courtyards, and green spaces promote airflow and reduce energy demand. Together, these design strategies lower electricity consumption and create a healthier, more comfortable environment for learning and work, in line with the principles of green architecture.

Awareness and Behavioral Change

The University encourages the entire campus community to adopt simple, consistent energy-saving habits, such as switching off lights, fans, and electrical appliances when not in use. Awareness campaigns and regular reminders reinforce shared responsibility for conserving energy and help students and staff carry these practices into their homes and communities.

Energy-Efficient Systems

LUMHS has introduced energy-efficient lighting systems that deliver the same level of illumination with considerably lower power consumption. These upgrades reduce electricity bills and maintenance requirements, so that resources can be directed to teaching, research, and patient-related priorities.

Optimized Scheduling

Classroom schedules have been planned to avoid unnecessary use of lighting, cooling, and other equipment in unoccupied spaces. Grouping classes and using rooms efficiently reduces idle energy consumption without affecting academic activity.

Use of Natural Light

The University promotes the use of daylight wherever possible, particularly in classrooms, corridors, and offices, which reduces the need for artificial lighting during working hours and improves the comfort and well-being of occupants.

These initiatives demonstrate LUMHS's commitment to environmental sustainability and responsible resource management. By combining renewable energy, efficient design and systems, careful scheduling, and a culture of conservation, the University advances SDG 7 while reducing its environmental footprint and setting an example of sustainable practice for its students and the wider community.





Provision of Electric Vehicle (EV) Shuttles for Sustainable Campus Mobility

Liaquat University of Medical & Health Sciences (LUMHS) promotes sustainable campus mobility by providing electric vehicle (EV) shuttle services for students within the campus. This initiative supports environmental protection by reducing dependence on conventional fuel-powered transport, lowering direct vehicular emissions, and helping improve campus air quality. The EV shuttle service also facilitates convenient and accessible transportation for students across the university campus.

This initiative contributes to UN Sustainable Development Goal (SDG) 13: Climate Action, by supporting efforts to reduce transport-related emissions, and SDG 11: Sustainable Cities and Communities, by encouraging cleaner and more sustainable mobility. It also supports SDG 3: Good Health and Well-being through efforts to improve air quality and create a healthier campus environment.

Through the provision of EV shuttles, LUMHS demonstrates its commitment to environmental sustainability, climate-conscious infrastructure, and the development of a greener and more sustainable university campus.



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