

Lingnan University 2024/2025 SDG Report

SDG 6 – CLEAN WATER AND SANITATION



28

Undergraduate Courses



21

Drinking Fountains on Campus



More than 480,000

Plastic Bottles Saved by
Installing Drinking Fountains



23

Research Projects and Grants

Sustainable Development Goal 6 aims to ensure the availability and sustainable management of water and sanitation for all. Access to clean water and proper sanitation is crucial not only for human health and well-being but also for economic development and environmental sustainability. Lingnan University is strongly committed to advancing this goal through research, innovation, and community-based projects that promote water conservation, pollution prevention, and equitable access to clean water. By fostering partnerships and applying interdisciplinary approaches, Lingnan contributes to global efforts to address water scarcity, improve water quality, and strengthen climate resilience in vulnerable communities.

The United Nations University (UNU) Hub on Humanitarian Innovation and Technology (HIT) at Lingnan has been collaborating with the Office of Service-Learning (OSL) and the Lingnan Entrepreneurship Initiative (LEI) on the following projects related to SDG 6: Clean Water and Sanitation:

Sustainable Oyster Aquaculture in San Juan, Philippines

In collaboration with a local university, UNU HIT and its partners are working with oyster farmers in San Juan to redesign the entire business process—from farming and harvesting to processing and marketing. The project integrates innovative methods and technologies to minimize pollution, reduce waste, and enhance productivity and profitability. This pilot initiative aims to

develop an optimization framework that can be replicated in other coastal villages, promoting sustainable aquaculture and environmental stewardship.

Efficient Rainwater Harvesting for Improved Water Access in Tingloy, Philippines

In partnership with community leaders on Tingloy Island and local engineering schools, UNU HIT is developing an intelligent rainwater harvesting system to address water shortages in remote island communities. The system comprises four main components—collection, filtration, storage, and distribution—and uses IoT sensors to monitor rainfall, storage levels, usage, turbidity, and other climate variables. Data gathered are analysed through an AI learning model to identify local rainfall and water usage patterns, enabling early water shortage alerts and improved resource management.

Drone for Seaport Water Pollution Monitoring

Under the Lingnan–Yuenpei Summer Academy, jointly organised by Lingnan University and Peking University, students developed a drone system to monitor nearshore water quality for early detection of pollution. Using intelligent computer vision technology, the drone identifies water contaminants in seaports and transmits real-time images and data for remote analysis. This project exemplifies Lingnan’s integration of education, innovation, and environmental action to support SDG 6.