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SDG 12: Responsible Consumption and Production

Khalifa University of Science and Technology advances SDG 12: Responsible Consumption and Production by embedding sustainability into campus operations, procurement, research practices, and community engagement. Through a combination of policy-driven action and behavioral change, KU promotes efficient resource use, waste reduction, and a culture of sustainability across the University.

Campus Operations

- Green procurement
- Waste management
- Resource efficiency

Community Education

- Sustainability awareness with total participation of 955 .
- A series of online quizzes
- Clean up campaign
- Earth hour
- Earth day

RESPONSIBLE
CONSUMPTION
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Waste Management: Solvent Recovery Facility

In Fall 2025, the Chemistry Department established a dedicated solvent recovery facility, funded by Research Laboratories, to support Khalifa University's sustainability goals. The facility has successfully evaluated a broad spectrum of aromatic, aliphatic, alicyclic, and halogenated solvents, and is capable of efficiently separating non-azeotropic mixtures with boiling point differences of less than 25 °C.

Sustainability Impact and Achievements (2025)

The solvent recovery facility delivers clear sustainability benefits:

- Reduced solvent waste, increased reuse, lower material and disposal costs
- Improved environmental performance
- Enhanced safety and compliance.

It marks a key step toward recycling chemical use in research.

Proposed Improvements and Plan for 2026

Starting in Spring 2026, instructional lab solvents will be recycled through the facility, providing students with hands-on experience in sustainable laboratory practices. The facility's separation processes will also be optimized through equipment upgrades, including the addition of a heat chiller and pressure controller, to improve process efficiency and enable the handling of a wider range of solvents.



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