



UNIVERSITI
TEKNOLOGI
MARA

Fakulti
Kejuruteraan Awam

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FACULTY OF CIVIL ENGINEERING
UNIVERSITI TEKNOLOGI MARA





12 RESPONSIBLE CONSUMPTION AND PRODUCTION



RESPONSIBLE CONSUMPTION & PRODUCTION: WHY IT MATTERS

WHAT IS THE GOAL HERE?

To promote responsible use of resources, sustainable practices, and environmental awareness in teaching, research, and daily faculty activities.

TEACHING & LEARNING

Goal: To equip students with the mindset and skills to design and manage resources responsibly in engineering practice.

Key contributions

- Integrate sustainable materials, waste reduction, and lifecycle thinking into coursework.
- Use project assignments that consider environmental impact and resource efficiency.
- Promote awareness of responsible consumption in engineering design and construction.
- Encourage students to adopt sustainable practices in academic and project work.

FCE
reduced paper use through digital processes, supporting more sustainable academic operations

RESEARCH & PUBLICATION

Goal: To develop and share knowledge that supports efficient resource use and sustainable engineering solutions.

Key contributions

- Conduct research on sustainable materials, waste management, and resource efficiency.
- Publish studies related to environmental sustainability and responsible production practices.
- Collaborate with industry on projects that reduce environmental impact.
- Support innovation that improves sustainable construction and infrastructure practices.

OPERATION

Goal: To encourage responsible use of materials, energy, and facilities within faculty operations.

Key contributions

- Promote reduction of paper use and encourage digital documentation.
- Support responsible use of laboratory materials and shared resources.
- Encourage recycling and waste reduction practices in faculty spaces.
- Participate in university sustainability efforts related to environmental responsibility.

COMMUNITY OUTREACH

Goal: To raise awareness and share practical knowledge on sustainable living and responsible resource use.

Key contributions

- Conduct outreach activities related to environmental care and waste reduction.
- Under SDG 12, the faculty strengthened environmental responsibility through community outreach initiatives that promote sustainable practices, waste reduction, and resource efficiency. These projects engage students and communities in applying practical engineering solutions to encourage responsible consumption and production habits. There are five projects under community outreach for SDG 12.

1. Rural Empowerment and Community Help (Reach 2.0)
2. Reborn: Turning Waste into Worth
3. Engineers For Earth: Community Sustainability Project
4. Eco-Engineers: Sustainable Innovations for Greener Future
5. Sustainability In Action: From Waste to Wealth Through an Engineering Approach

STUDENT INITIATIVES

Goal: To empower students to lead sustainability-focused and environmentally responsible activities.

Key contributions

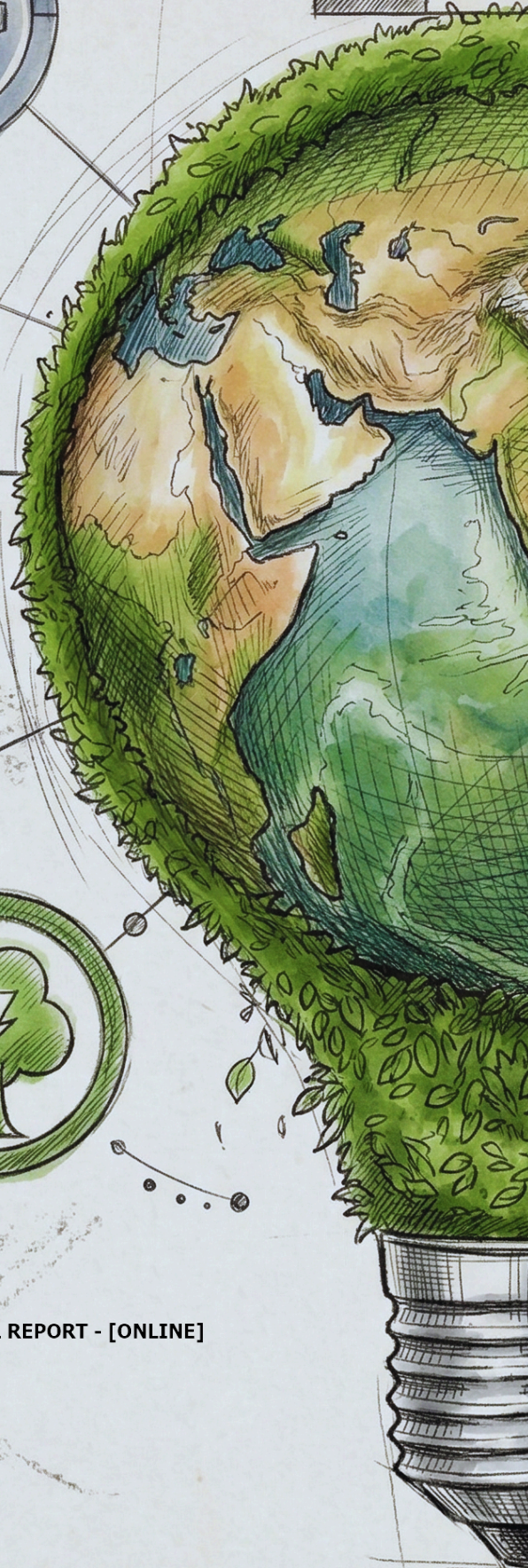
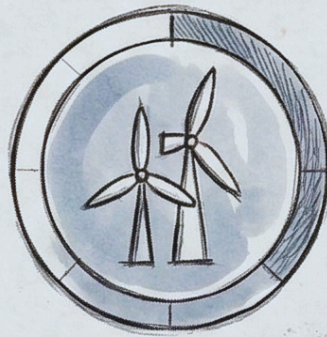
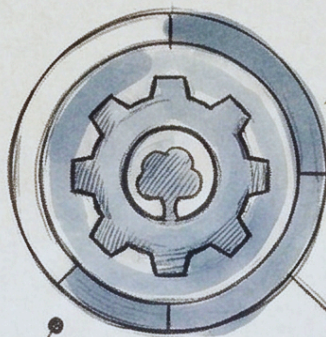
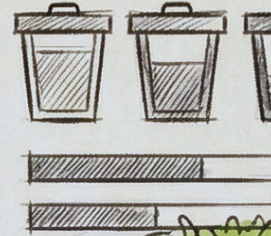
- Organise student-led environmental and recycling campaigns.
- Promote responsible use of resources during student programmes and events.
- Participate in community sustainability projects.
- Encourage innovation projects that focus on sustainable solutions.



Eco-Engineers: Sustainable Innovations for Greener Future



SUSTAINABLE DEVELOPMENT GOALS



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