



2023-2024 SDFG12 Report

Menoufia National University (MNU)

Academic Year 2023–2024

12.1 Sustainable Procurement and Supplier Waste Minimization

Policy Statement

Menoufia National University integrates sustainability into all procurement operations. All outsourced suppliers—including those providing equipment, stationery, technology, food services, security, and construction—must follow environmentally responsible practices that minimize waste, avoid single-use materials, and prioritize recyclable content.

Key Practices

1. Sustainable Procurement

- All tenders include sustainability requirements: reduced packaging, recyclable materials, and prohibition of unnecessary single-use plastics.
- Suppliers must confirm compliance prior to contract award.

2. Supplier Selection

- Environmental performance is included in supplier evaluation rubrics.
- Preference is given to suppliers using eco-friendly, reusable, and low-waste materials.

3. Green Purchasing

- Priority for long-life-cycle products, materials with recycled content, and items with minimal packaging.

4. Construction Waste Management

- Contractors are required to sort, reduce, and recycle construction waste.

5. Single-Use Materials Reduction

- All campus suppliers must avoid single-use plastics and provide sustainable alternatives.

6. Monitoring

- Suppliers may be required to submit annual compliance reports.
- The University performs regular reviews to ensure adherence.

12.2 Sustainable and Healthy Food Policy

Policy Statement

MNU ensures that all on-campus food services promote health, sustainability, ethical sourcing, and environmental responsibility.

Key Practices



- **Nutritional Standards:**
At least **50% of campus meals are plant-based**, with clear nutritional labeling.
- **Local Sourcing:**
Procurement priority for **local farmers and regional producers** to reduce transportation emissions.
- **Plastic Reduction in Food Outlets:**
 - Ban on single-use plastic water bottles.
 - Installation of refillable water stations.
- **Organic Waste Management:**
All cafeteria organic waste is separated and composted for use in green areas.

12.2.3 Hazardous and Toxic Waste Disposal

Toxic Waste Policy (2023)

Because MNU relies on **digital learning, dental simulators, and Anatomage systems**, toxic waste generation is negligible.

Any small quantity of hazardous waste is:

- Sterilized using autoclaves
- Collected and safely disposed of through **H2M Company**, following national environmental standards.

12.2.4 Sewage and Wastewater Disposal

Formal Contract (2023)

MNU is fully connected to the municipal sewage system managed by the **Menoufia Governorate Drinking Water and Sanitation Company**.

All wastewater undergoes:

- Primary, secondary, and tertiary treatment
- Full compliance with national environmental regulations

12.2.5 Plastic and Paper Reduction Programs

Program: Reduce the Use of Paper and Plastic

- Digital platforms, online submissions, and e-communication significantly reduce paper use.
- Reusable containers encouraged across all departments.

Awareness Program: Waste Management and Circular Economy of Plastic Waste

Launched during the first Environmental Week:



- Training for staff and students on waste segregation and recycling
- Deployment of **130 recycling bins** across the university
- Daily collection managed by **H2M Company**

Plastic Reduction Results

- 130 recycling bins for plastic, paper, and organic waste
- Increased recycling rates and reduced single-use plastics

Paper Reduction Results

- Transition to digital learning and online workflows
- Continuous recycling of collected paper waste

12.2.6 The 3R Program (Reduce, Reuse, Recycle)

Reduce

- **Dental Simulators** and **Anatomage Tables** eliminate biological specimens, reducing biomedical waste
- Digital transformation reduces paper usage

Reuse

- Reusable materials encouraged in cafeterias, offices, and labs

Recycle

- Collaboration with **H2M Company** ensures proper recycling of plastic, paper, and organic waste

12.2.7 Disposable Minimization in Outsourced Services

Cafeteria Services

- Elimination of plastic cups, plates, and cutlery
- Promotion of refillable water bottles
- Use of biodegradable or eco-friendly packaging

Security Services

- Transition to digital forms and reduced paper usage

Cleaning Services

- Use of biodegradable bags
- Full waste segregation and daily collection



12.3 Waste Tracking and Performance Indicators

12.3.1 Waste Reduction and Minimisation

- Digital tools reduce paper and biological waste
- Reusable containers used across campus

12.3.2 Waste Segregation and Tracking (2023–2024)

Waste Tracking Data

Type of Waste	Generated (mt)	Reused/ Recycled (mt)	Sent to Landfill (mt)
Organic Waste	0.26	0.05	0.21
Inorganic Non-Toxic	207.7	102	105.7
Paper	65.5	37	28.5
Plastic	142.2	65	77.2
Total	273.46	169.05	104.41

Paper & Plastic Production: 2023 vs 2024

Plastic Waste Increase

- 2023: 12 tons
- 2024: 142.2 tons

Reason:

Opening of multiple new faculties, increasing campus population and consumption.

Paper Waste Increase

- 2023: 15 tons
- 2024: 65.5 tons

Reason:

Expansion of academic and administrative activities.

Organic Waste



Source	2023	2024	Reused	Down-cycled	Up-cycled
Organic Total	0.28	0.26	0.02	0.02	0.03

Notes:

- No cafeteria in 2023 → No food waste.
- Biological waste began in 2024 with opening of new science faculties.

Inorganic Waste

Type	2023 (mt)	2024 (mt)	Reused	Down-cycled	Up-cycled
Inorganic Non-Toxic	27	207.7	39	28	35
Paper	15	65.5	28	5	4
Plastic	12	142.2	11	23	31

Interpretation:

Significant growth due to campus expansion, but high recycling and recovery rates demonstrate effective waste management.

Hazardous Waste

MNU produces very minimal hazardous waste.

Any small quantities are:

- Sterilized via autoclaves
- Disposed of through **authorized waste companies**