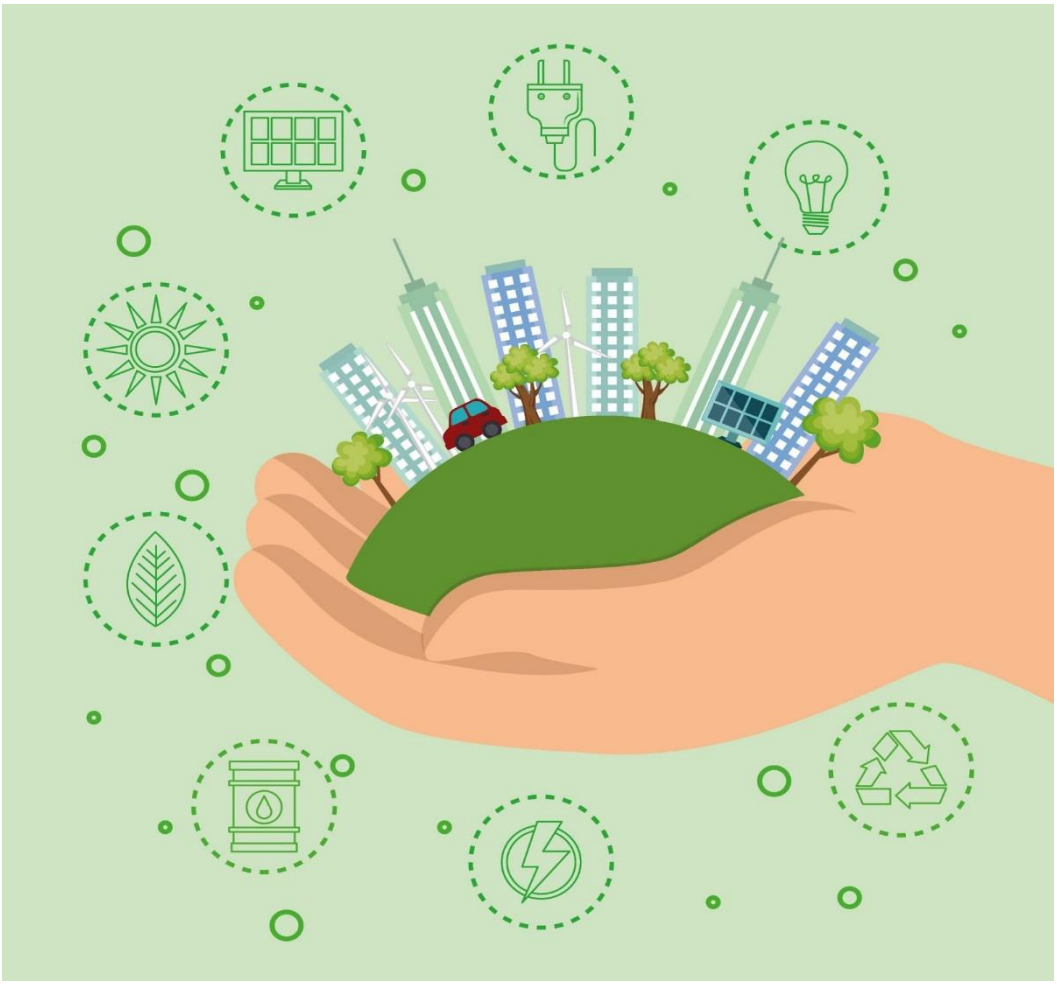


Sustainability Annual report 2025

Menoufia National University

1- Financial Sustainability

The following table describe List of revenues & expenses around 3 years

	From September 1, 2024 to August 31, 2025	From September 1, 2023 to August 31, 2024	From September 18, 2022 to August 31, 2023
	US dollar	US dollar	US dollar
Net revenue	$16,313,920	$4,585,312	$174,448
Activity cost (-)	$2,152,227	$1,196,338	$57,664
surplus (deficit) of activity	$14,161,692	$3,388,973	$116,784
Added to it			
profits from financing activities	$2,167,128	$620,478	$12,272
Other revenues	$72,139	$21,886	$104,514
It is deducted from it			
General and administrative expenses	$199,308	$169,311	$65,426
Depreciation expense	$0	$2,163,835	$1,681,638
Financing expenses	$0	$0	$565,687
Net surplus (deficit) for the period	$16,201,651	$1,698,192	-$2,079,180

Financial Overview:

During the fiscal year **from September 1, 2024, to August 31, 2025**, Menoufia National University (MNU) recorded a **significant improvement in its overall financial performance** compared to the previous academic years.

The **net revenue** reached **USD 16,313,920**, marking a substantial increase from **USD 4,585,312 in 2023–2024** and **USD 174,448 in 2022–2023**. This sharp growth reflects enhanced efficiency in income generation and stronger financial management practices across university operations.

The **activity cost** amounted to **USD 2,152,227**, resulting in a **net activity surplus** of **USD 14,161,692**, compared with **USD 3,388,973** in the previous year.

Additional **profits from financing activities** totaled **USD 2,167,128**, and **other revenues** contributed **USD 72,139**.

On the expenditure side, **general and administrative expenses** were maintained at **USD 199,308**, slightly above the **USD 169,311** recorded in 2023–2024. Notably, **no depreciation or financing expenses** were recorded during the 2024–2025 period, indicating a reduction in capital-related costs and loan obligations.

The university achieved a **net surplus of USD 16,201,651** for the 2024–2025 fiscal year, compared with **USD 1,698,192** in 2023–2024 and a **deficit of USD 2,079,180** in 2022–2023.

Financial Analysis:

- The consistent improvement over three years demonstrates **sound fiscal recovery** and effective control over operating costs.
- The absence of depreciation and financing expenses in 2025 suggests that **major assets are fully owned** and that **no new borrowing** occurred during the year.
- The strong surplus position strengthens the university's capacity to invest in **academic development, sustainability projects, and infrastructure improvement** in upcoming years.

Menoufia National University has achieved a **robust financial position** in 2024–2025, characterized by significant growth in net revenue, a strong operating surplus, and controlled administrative expenditures. This performance reflects the university's commitment to **financial sustainability, resource efficiency, and strategic planning**, aligning with the principles of **institutional excellence and long-term development**.

2. Setting & infrastructure

Menoufia National University is established as one campus that brings together all faculties and facilities in the same location.

Different campus areas:

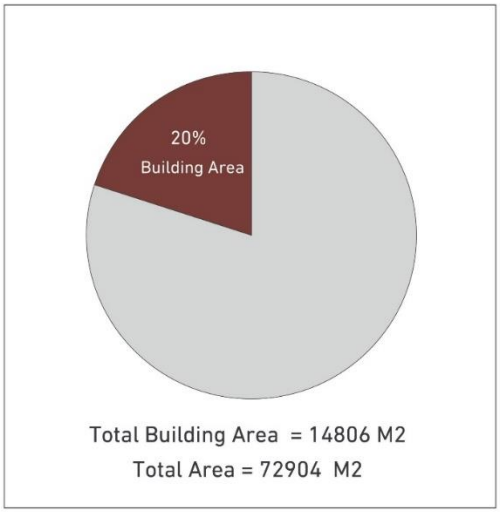
Campus Overview

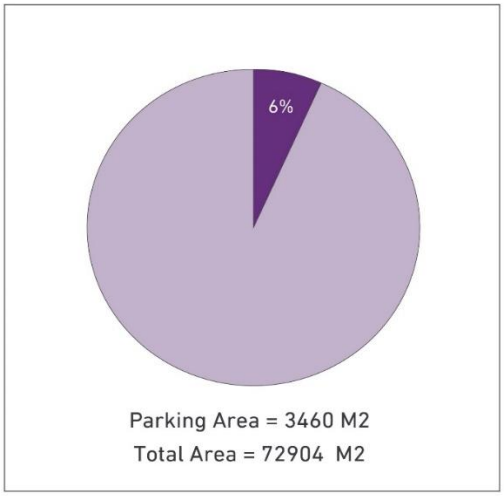
Menoufia National University is established as **one integrated campus** that brings together all faculties, facilities, and administrative units in a single location.
This design enhances connectivity, accessibility, and efficiency in academic, administrative, and community activities.

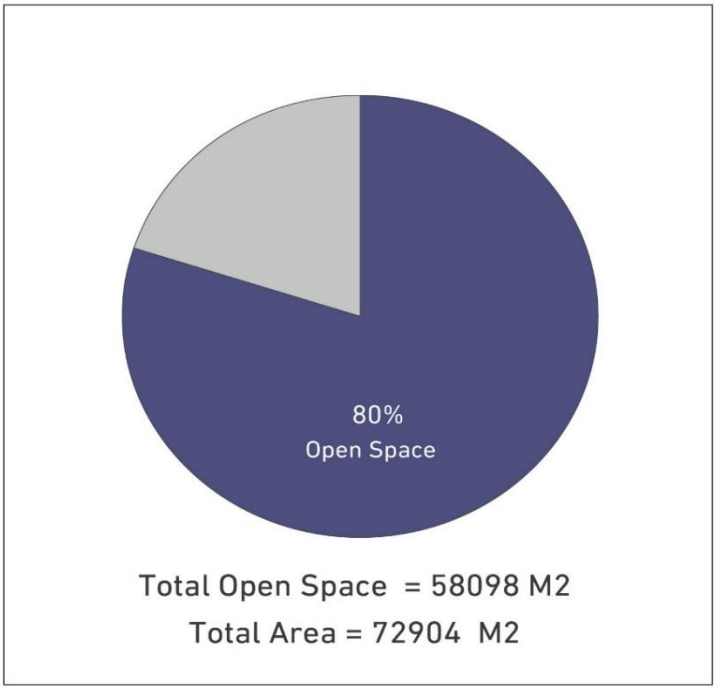
Building Name	Total Area (m^2)
Administration Building	3192
Central Laboratories Building	2326
Medical Sciences Building (A)	2322
Medical Sciences Building (B)	2322
Engineering Sciences Building (C)	2322
Engineering Sciences Building (D)	2322
Total	**14806 m^2**

Total Campus Area: 72904 m²

- **Total Planted/Vegetation Area:** 5124 m²
- **Open Space Ratio:** 80%
- **Parking Area:** 6%
- **Building Area Percentage:** 7%







A. Strengths

1. **Single Integrated Campus Design:**
   Menoufia National University operates as one consolidated campus, which facilitates centralized management, efficient land use, and sustainability planning.
2. **High Ratio of Green and Open Space:**
   With 80% open area and 5,124 m² of planted vegetation, the university demonstrates strong commitment to environmental quality, landscape planning, and biodiversity.
3. **Facilities for People with Disabilities:**
   The presence of disabled parking, accessible toilets, and pedestrian walkways ensures an inclusive and equitable campus environment.
4. **Comprehensive Healthcare Services:**
   The university clinic provides accessible medical care, including emergency, preventive, and specialized services. Partnerships with external hospitals enhance service quality and community health.
5. **Rehabilitation and Physiotherapy Facilities:**
   Advanced therapy units serve both educational and community functions, contributing to SDG 3 (Good Health and Well-Being) and SDG 4 (Quality Education).
6. **Newly Established Veterinary Clinic:**
   The 2025 inauguration of the veterinary clinic promotes animal health, food safety, and rural community support — directly linked to SDG 2, 3, and 15.
7. **Smart Campus Infrastructure:**
   The university's strong technological foundation — including e-learning systems, smart classrooms, Anatomage tables, dental simulators, and an advanced data center — reflects modern and sustainable education practices.
8. **Safety and Security Systems:**
   Smart surveillance cameras and centralized data management systems enhance operational efficiency and campus safety.
9. accommodation for students and staff is available through Menoufia University's hotel, ensuring convenient access and reducing daily commuting challenges.
10. **Developing Sustainability Management Structure:**
    The university already has a Green Office and a Crisis and Disaster Management Unit, which monitor environmental practices and emergency preparedness. However, establishing a dedicated Sustainability Office that integrates environmental, social, and infrastructure reporting — aligned with UI GreenMetric and SDGs — would further strengthen strategic monitoring and coordination.

B. Weaknesses

1. **Lack of Renewable Energy Integration in Buildings:**
   Current infrastructure data do not indicate the presence of solar panels, energy-efficient lighting systems, or renewable power generation in new buildings.

C. Improvement Plan (2025–2026)

Focus Area	Proposed Action	Expected Outcome / SDG Link
Green Landscaping Expansion	Increase vegetation areas by establishing thematic gardens (e.g., medicinal plant garden, biodiversity park).	Enhance biodiversity, air quality, and alignment with **SDG 15**.
Renewable Energy Integration	Install solar panels on rooftops and parking areas; switch to energy-efficient lighting (LED).	Reduce carbon footprint; support **SDG 7 (Clean Energy)** and **SDG 13 (Climate Action)**.
Green Building Standards	Adopt LEED or Egyptian Green Pyramid rating standards for future constructions.	Improve sustainability rating and resource efficiency.
Community Greening Projects	Launch "Adopt-a-Garden" or "Green Wall" initiatives involving students and staff.	Increase awareness and hands-on engagement in sustainability.

2- Energy & Climate Change

Electricity Consumption Rationalization

Strengths	Weaknesses	Improvement Plan (2025–2026)
- Clear and comprehensive policy promoting efficient use of electricity. - Specific operational practices (e.g., setting AC to 24°C, unplugging unused devices). - Awareness campaigns through posters and brochures. - Assigned personnel responsible for ensuring all devices and lights are turned off after working hours.	- While several technical measures exist (energy-saving bulbs, maintenance routines), **the system still relies largely on manual control and lacks automation or smart monitoring tools.** - No quantitative targets or KPIs for energy reduction per building.	- Introduce **smart metering and monitoring systems** to track consumption in real time. Set clear **reduction targets** (e.g., 10% by 2026). - Conduct periodic training sessions for staff on energy efficiency.

Use of Energy-Saving Devices

Strengths	Weaknesses	Improvement Plan (2025–2026)
- Adoption of energy-efficient lighting and appliances across facilities	- Coverage may still be partial (labs and outdoor areas possibly excluded).	- Conduct a **campus-wide energy audit**. - Mandate energy efficiency standards in all future procurement.- Maintain an **annual replacement plan** for outdated equipment.

-Implement policy considers **Energy Guide labels** for efficiency rating. Use of LED and low-consumption lighting in classrooms, halls, and offices.	- No performance verification system for replaced devices.	

Renewable Energy Policy

Strengths	Weaknesses	Improvement Plan (2026–2027)
- Strong commitment to renewable transition.- Collaboration with **the Arab Organization for Industrialization** for solar energy feasibility.- Feasibility study for a solar energy unit is ongoing.- Clear understanding of renewable energy benefits included in awareness materials.	- Project remains in the planning phase.- No installed renewable capacity yet (0% of total energy).- No specific implementation timeline or allocated budget.	- Finalize the feasibility study by mid-2026.- Begin **pilot installation of solar panels** (target: 10–15% of total campus demand by 2027).- Engage students via a **Renewable Energy Club** for awareness and data collection.

Quantitative Energy and Water Performance (2024–2025)

Indicator	2024	2025	Change	Interpretation
Electricity Consumption (kWh)	2,495,218.27	1,569,120.8	↓ **37.1% reduction**	Demonstrates substantial improvement in energy efficiency and operational control, aligned with awareness and rationalization measures.
Water Consumption (m^3)	77,123.09	52,688.6	↓ **31.7% reduction**	Indicates more efficient water management and reduced wastage through awareness and behavioral change.

Carbon Footprint

Year	Carbon Emissions (metric tons CO_2)	Change
2024	2,099.63	
2025	1,323.34	↓ **36.9% reduction**

The carbon footprint reduction directly corresponds to decreased electricity use. This confirms that the university's conservation policies have measurable environmental benefits.

Monitoring & Reporting

Strengths	Weaknesses	Improvement Plan (2026–2027)
- Recognition of seasonal and academic variations affecting energy use.- Awareness of main consumption drivers (e.g., summer cooling, student activity).	- Data collection is primarily manual and descriptive.- No digital reporting system or visualization tools for tracking progress.	- Implement a **digital dashboard** for electricity, water, and carbon tracking.- Publish **annual sustainability performance reports**.- Provide **training** for technical staff in data collection and analytics.

3- Education & Research

A. Strengths

Integration of sustainability into curriculum:

- 36% of total courses include sustainability topics — excellent ratio for a university established recently (since 2022).

High research commitment:

- Over **57%** of total research funding is dedicated to sustainability-related projects.
- Continuous increase from **24k → 63k → 149k USD** (6× growth in 2 years).

Strong event culture:

- Annual average of 15 sustainability/environmental events enhances community awareness.

Active student engagement:

- 7 student-led sustainability activities annually encourage youth participation.

International collaborations:

- 7 research partnerships with Saudi universities — strong alignment with SDG 17 (Global Partnerships).

Good financial prioritization:

- 12.7% of total university budget directed toward sustainability and quality education initiatives.

Balanced academic structure:

- 10 faculties and 17 academic programs cover both STEM and health sciences, supporting interdisciplinary learning.

B. Weaknesses

Limited graduate data:

- No graduates yet (first batch 2026), so employability and alumni impact on sustainability not yet measurable.

Need for broader faculty involvement:

- Research and events may still be concentrated in specific faculties (e.g., Medicine, Engineering), less in Humanities.

Insufficient long-term tracking metrics:

- No detailed KPIs for assessing course effectiveness or learning outcomes related to sustainability.

Limited outreach beyond campus:

- Community outreach outside campus (13 activities) is promising but can expand to industry, schools, and) NGOs

C. Improvement Plan (2025-2026)

Focus Area	Action Plan	Expected Impact
Curriculum Enhancement	Increase sustainability-integrated courses to 50% by 2027 through revision of course outcomes and inclusion of SDG-linked content.	Improved Green Metric score & academic relevance
Graduate Tracking System	Establish alumni follow-up system to evaluate employment in sustainability sectors.	Evidence-based education quality
Faculty Development	Organize annual "Teaching Sustainability" workshops to train instructors from all faculties.	Expand sustainability literacy among educators
Student Innovation	Launch Sustainability Challenge or Green Innovation Awards for student projects.	Promote practical application of learning
Community Outreach Expansion	Partner with local government and NGOs for joint environmental campaigns and health awareness programs.	Increase social impact and SDG visibility
Data & Reporting	Implement a sustainability data tracking dashboard (courses, research, outreach, funding).	More accurate annual reporting
Publications & Research	Encourage multidisciplinary publications (Health–Tech–Environment) and aim for 0.25 ratio (publications/staff).	Higher research visibility

4-Water Management		
Indicator	**Description / Data**	**Notes**
Total Water Consumption	2025: **52,688.6 m³**, 2024: **77,123.09 m³**	↓ 31.7% reduction in water use
Clean Water Supply	Water coolers and filters installed across all faculties	Meets quality & safety standards
Awareness & Conservation Programs	Workshops, posters, campaigns (e.g., *Water Rationalization Workshop*)	Strong engagement with students & staff
Irrigation System	Sprinkler system used for green areas	Efficient and eco-friendly
Water Recycling Plan	Under development	Not yet implemented
Network Maintenance	New network under warranty; prompt issue response	Prevents leakage & wastage
Tank Cleaning	Monthly under Ministry of Health supervision	Ensures water safety

A. Strengths

Significant Reduction in Water Consumption (31.7%)

- Impressive improvement from 2024 to 2025, showing successful awareness and management actions.

Clean Water Access for All Users

- Water coolers and filtration systems in all faculty buildings ensure health and comfort for staff and students.

Active Awareness Programs

- Workshops, environmental week activities, and posters cultivate a conservation culture across campus.

Modern Irrigation System

- Sprinkler irrigation prevents runoff and erosion, improving efficiency in green area maintenance.

Efficient Maintenance Protocols

- Prompt repair of issues due to warranty and continuous contractor supervision minimizes waste.

Health-Compliant Water Storage

- Monthly cleaning and Ministry oversight demonstrate a strong public health commitment.

B. Weaknesses

Absence of Implemented Water Recycling System

- Recycling and greywater reuse are still in the planning phase, limiting long-term sustainability impact.

Lack of Smart Monitoring Tools

- No mention of water meters, sensors, or automated data tracking for real-time leak detection or usage analytics.

Limited Quantitative Data on Awareness Impact

- Activities are commendable, but effectiveness (e.g., % change in awareness or behavioral change) isn't measured.

Dependence on Manual Irrigation

- Although sprinklers are used, the system could further improve with automated timing and weather-based irrigation controls.

C. Improvement Plan (2025–2026)

Focus Area	Proposed Action	Expected Impact
Water Recycling & Greywater Use	Implement a greywater treatment and reuse system for irrigation and cleaning.	Reduce water use by an additional 20–25%.
Smart Water Monitoring	Install digital meters and sensors to monitor consumption per building and detect leaks early.	Enhance control and efficiency.
Awareness Assessment	Conduct pre- and post-campaign surveys to measure awareness improvement among students/staff.	Quantifiable sustainability education outcomes.
Automated Irrigation Upgrade	Introduce smart irrigation systems controlled by moisture sensors.	Further reduction in water waste and energy cost.

Annual Water Report	Publish yearly water consumption and conservation results in the Sustainability Report.	Transparency & accountability.
Partnership with Local Water Authorities	Collaborate for recycling projects and water audits.	Strengthened regional sustainability leadership.

5- Transportation

Aspect	Description / Policy	Implementation Status
Sustainable Transport Vision	Adoption of a green transportation strategy to minimize emissions, promote public transport, and encourage walking/cycling.	Actively implemented
Public Transport Provision	University buses connect major cities (Shebin El-Kom, Banha, Tanta, Cairo).	Operational
Internal Transport	No internal shuttle needed due to compact campus size.	N/A
Cycling & Pedestrian Infrastructure	Bicycle and pedestrian routes being developed; participation in "Your Bike, Your Health" initiative.	In progress
Fuel Transition Policy	Plans to shift university vehicles to natural gas under "Clean Cars, Clean Fuel."	Planned
Car Reduction Policy	On-campus housing and nearby services reduce car dependency.	Implemented partially
Digital & Flexible Work Policies	Hybrid learning, remote meetings, flexible working hours, and e-services.	Implemented
Awareness & Incentives	Regular seminars, awareness campaigns, and incentives for green commuting.	Ongoing

A. Strengths

Comprehensive Sustainable Transportation Policy

- Clear, multidimensional strategy addressing car reduction, digital transformation, and eco-friendly mobility.

Strong Public Transport Network

- University buses connect to major cities, reducing private car use and carbon emissions.

National Alignment & Awareness Programs

- Participation in the "Your Bike, Your Health" initiative and campaigns fosters a green culture.

Energy Rationalization in Mobility

- Plans for natural gas transition and carpooling demonstrate forward-looking energy management.

Digitalization & Hybrid Systems

- Adoption of ICT tools, hybrid learning, and flexible work policies directly reduce daily commuting needs.

Compact Campus Layout

- Small, walkable campus eliminates the need for internal vehicle movement, reducing emissions.

B. Weaknesses

Absence of EV Charging Stations or Green Vehicle Fleet

- No mention of electric or hybrid vehicles, which are key indicators in GreenMetric.

C. Improvement Plan (2025–2026)

Focus Area	Proposed Action	Expected Impact
Bicycle Infrastructure Expansion	Complete dedicated bicycle lanes and provide covered parking near faculties.	Encourages active transport & reduces CO_2.
Electric Mobility Integration	Introduce EV charging stations and transition administrative fleet to hybrid/electric vehicles.	Reduces fossil fuel dependence.
Modal Split Survey	Conduct annual survey to record transport modes used by students/staff.	Enables measurable sustainability metrics.
Smart Mobility Management	Use digital apps for bus tracking, ride-sharing, and emission tracking.	Improves efficiency & transparency.
Awareness Expansion	Integrate transport sustainability into student orientation and events.	Sustained culture of eco-mobility.

6.Waste Management

A. Strengths

1. **Comprehensive Waste Management System**
   MNU has implemented a full waste management framework covering the entire life cycle of waste — from generation to disposal — in cooperation with **H2M Company** for safe handling and recycling.
2. **Significant Reduction in Waste Generation (2024→2025)**
   - **Plastic waste** reduced from *142.2 tons to 117.9 tons* (≈17% reduction).
   - **Paper waste** reduced from *65.5 tons to 59.7 tons.*
   - **Organic waste** management improved with proper reuse, downcycling, and upcycling activities.
3. **Use of Advanced Digital Technologies**
   - **Dental Simulators and Anatomage Tables** drastically minimize biological waste by replacing cadaveric specimens and chemical preservatives with digital simulation tools.
4. **Source Separation and Adequate Infrastructure**

- Over **130 plastic bins + 30 backups** are distributed across campus for paper and plastic segregation.
- Waste is separated at source in academic and administrative buildings.

5. **Digital Transformation Reducing Paper and Plastic Use**
   - E-exams, online assignments, and digital communication (academic emails, E-portfolio system) have significantly reduced paper consumption.
6. **Sustainability Awareness and Training Programs**
   - The *First Environmental Week* included "**Waste Management and Circular Economy of Plastic Waste**," raising awareness among students and staff.
7. **Safe Sewage and Sanitation Management**
   - Wastewater is disposed of through official contracts with sanitation authorities in compliance with environmental regulations.

B. Weaknesses

Lack of Quantitative Recycling Rates
– The report mentions recycling "where possible," but there are no specific percentages or year-to-year comparisons of recycled vs. total waste.

Improvement Plan

Area	Proposed Action	Timeline
2. Transparency in Recycling Rates	Publish **quarterly waste reports** showing % reused, recycled, downcycled, and upcycled.	Annual
5. Continuous Awareness Programs	Expand the **Environmental Week** to twice per year and include practical workshops on waste segregation and recycling	Ongoing

Summary of the Sustainability Report, Menoufia National University

1. Setting & Infrastructure:
Menoufia National University operates as a one-campus institution that integrates all faculties and facilities in a single location with a total area of 72904 m², including 5124 m² of green spaces. The campus design emphasizes open areas (80%) and accessibility, with facilities for people with disabilities, a medical clinic, a veterinary clinic, and a physiotherapy center.

2. Energy & Climate Change:
The university is moving toward sustainable energy solutions, including a partnership with the Arab Organization for Industrialization to establish a solar energy station. Electricity consumption is being rationalized through smart monitoring systems and efficient energy management.

3. Waste Management:
An integrated waste management system is applied on campus, including separation at source, recycling of paper and plastic waste, and reuse or composting of organic waste.

4. Water Management:
The university adopts water-saving strategies, such as efficient irrigation systems for green areas and the use of water-conserving fixtures to reduce consumption.

5. Transportation:
As a single-campus university, internal transportation needs are minimal, reducing emissions and promoting sustainability. The university encourages the use of shared or public transportation for students and staff.

6. Education & Research:
Sustainability concepts are incorporated into curricula and student projects across disciplines. Students engage in research and community service activities related to renewable energy, environmental awareness, and health promotion.

7. Smart & Digital Infrastructure:
Menoufia National University is a smart campus equipped with advanced digital and electronic systems, including high-speed internet-connected computer labs, e-learning and e-exam platforms, a central data center, surveillance systems, and innovative learning tools such as Anatomage Tables, Dental Simulators, and interactive smart boards.