

# Misr International University Report

## SDG 11:

### Sustainable Cities and Communities

Misr International University (MIU) is committed to supporting **SDG 11: Sustainable Cities and Communities** by fostering a campus environment that prioritizes safety, accessibility, resilience, and sustainability. The university implements initiatives that enhance green spaces, promote sustainable transportation, preserve cultural heritage, and strengthen community engagement.

**11** SUSTAINABLE CITIES  
AND COMMUNITIES



# SDG 11



## Indicator 11.2.1

### University Facilitation of Access to Cultural Heritage

Misr International University (MIU) actively demonstrates a commitment to Sustainable Development Goal 11 (Sustainable Cities and Communities). Through strategic academic projects and field activities conducted by the Faculty of Mass Communication and the Faculty of Al-Asun, the university provides its academic community with direct physical access to significant national monuments and museums. Furthermore, through student-led documentation, the university extends this access conceptually to the wider public by preserving and disseminating the "intangible cultural heritage" associated with these sites.

#### 1. Direct Access to Religious and Historical Monuments

The university ensures that students are provided with physical access to buildings of immense historical value to study and document their significance.

- **Access to Coptic and Islamic Heritage:** The Faculty of Mass Communication organized strategic field trips to two of Egypt's most significant cultural repositories: the **Museum of Islamic Art** and the **Coptic Museum**.
- **Purpose of Access:** This access is not passive; it is designed to "bridge the gap between theory and practice". By engaging directly with these sites, the university enables students to document the diverse religious history of Egypt.

<https://www.miuegypt.edu.eg/mcm-students-embark-on-cultural-trip-to-islamic-coptic-museums/>

## 2. Access to Artistic Heritage and Modern History

The university provides access to monuments that house the nation's artistic history, ensuring that the physical heritage serves as a vessel for cultural education.

- **Access to Art Museums:** The Faculty of Al-Alsun (Languages and Translation) executed projects involving visits to the **Mohamed Mahmoud Khalil Museum**.
- **Cultural Immersion:** These visits are designed to immerse students in the artistic heritage of the region, utilizing the physical building and its collection to enhance cultural awareness. This facilitates the transmission of knowledge regarding Egypt's modern history and its interaction with global art movements.

<https://www.miuegypt.edu.eg/al-alsun-field-trip-to-mahmoud-khalil-museum/>

## 3. Extending Access through Documentation and Preservation

Beyond physical visits, the university contributes to public access by converting physical heritage into accessible media content.

- **Digital and Archival Access:** The university's approach involves "Student-Led Documentation". Mass Communication students are tasked with creating media—such as reports, photos, and social media content—that act as a "modern archive" of this heritage.
- **Preserving Intangible Heritage:** While the buildings (museums) house tangible artifacts, the university's mandate is to record the "intangible heritage"—the stories, history, and traditions behind the artifacts. This ensures that the narratives and historical contexts of these monuments are recorded for a "digital audience," effectively expanding access to this information beyond those who can physically visit the sites.

# SDG 11



## Indicator 11.2.2

### Public Access to Libraries

**Misr International University (MIU)** provides library services and access to its collections for users from outside the university, including **graduates and faculty members**.

#### Three Libraries

The university has **three libraries** to serve the educational and research processes. These libraries offer a variety of collections to meet the research needs of students and faculty members across different specialties, utilizing the latest technology to access both **printed** and **electronic materials**.

#### Library Online Access

Attached is the Book Reservation Request Form, available as an electronic version for submission through the library website <https://library.miuegypt.edu.eg/>.

MIU organizes an annual book fair to demonstrate the university commitment for promoting access to library services for all people from outside the university:

<https://miuegypt.edu.eg/miu-hosts-its-11th-book-fair/>

#### Annual Book Fair

The Libraries Administration hosted its **11th book fair on campus** from the 25th to the 29th of February 2024. The fair featured six publishing houses: the Arts Library (Sur Al-Azbakeya), the Academic Library, Al-Ahram Foundation for Distribution and Publishing, the Egyptian Lebanese House, Bakkah Information Technology, and the University Book Center.



## Library Services

**476**

Internal Use  
Services for  
Graduates

**175**

Internal Use  
Services for  
Visiting Faculty  
Members

**21**

Borrowing  
Services for  
Graduates

**14**

Borrowing  
Services for  
Visiting Faculty  
Members

### Library Services for Non-University Users (Graduates and Visiting Faculty Members)

The library services available to graduates and visiting/seconded faculty members include:

- **In-house Reading Service (Internal Access):** Users can access and review the library's holdings inside the libraries.
- **Access to Electronic Materials and Databases:** Access to available electronic materials and subscribed databases is provided both **inside and outside** the university. This is done by the user logging into their personal account on the Library Web Portal.
- **External Borrowing Service:** Available according to the library's regulations on the library portal.
  - A signed loan request must be submitted by the **Dean of the College** or the **Head of the Department**.
  - Users can borrow **two (2) books** from the library's holdings for a period of **one week**.

The loan request must be **renewed every academic semester**, with a new request submitted at the beginning of each semester.

- **Borrowing Renewal Service:** The borrowing period for a single book can be renewed for an additional **one week only**.
  - Renewal is done by the user logging into their personal account on the Library Web Portal and requesting the renewal.

# SDG 11



## Indicator 11.2.3

### Public Access to Museums

**Misr International University (MIU)** supports the SDG 11 by maintaining a permanent gallery of **art and artifacts** open to **visitors** and by using its facilities to host periodic **exhibitions** that are specifically intended to **engage the community**.

#### Permanent Art Exhibition and Campus Gallery

The university hosts a **MIU Permanent Art Exhibition** as part of its Campus Art Exhibition facilities. This serves as a dedicated gallery space containing **works of art and artifacts** (paintings, sculptures, and artifacts donated by prominent Egyptian artists).

- **Public Access:** The facility is explicitly open to the "MIU community members and external **visitors**." Furthermore, the exhibition promotes "**hosting visits for school students**," which is a specific form of public and community engagement.

<https://miuegypt.edu.eg/services-facilities/arts-facilities/campus-art-exhibition/>

MIU hosts an **Annual Architecture Exhibition** to display student projects and achievements. This functions as an exhibition space that engages the external community.

#### Annual Architecture Exhibition

- **Evidence of Public Access:** The exhibition's goal is to "**engage the community and stakeholders**" and has historically been attended by "**a diverse audience**" including "**community representatives**," in addition to architects, designers, and faculty. This demonstrates an intentional effort to provide access to the public.

<https://miuegypt.edu.eg/annual-architecture-exhibition/>

The exhibitions are often coupled with events that invite public participation.

- **Evidence of Public Access:** An event related to the assessment of graduation projects mentioned a "**well-attended public lecture**" given by a distinguished juror, which took place alongside the exhibition, further indicating the university's commitment to inviting the wider community onto campus for cultural and artistic events.
- The University's Community Service and Environmental Development Council organized an exhibition to market the products of the Dounyatna Association for the Blind on Monday, November 18, 2024, on the university campus. The exhibition featured distinctive handicrafts made by the visually impaired and blind members of the association, both male and female. The University provided the necessary support by arranging round-trip transportation from Alexandria and supplying the required display materials. The university community actively participated by purchasing the products, demonstrating their commitment to social responsibility and inclusivity.

### Associated Public Engagement



<https://www.miuegypt.edu.eg/miu-supports-the-dunyatna-society-for-the-visually-im>  
<https://miuegypt.edu.eg/academics/faculty-of-architecture/intensive-summer-course-2024-for-high-schoolers/>  
<https://miuegypt.edu.eg/miu-hosts-guest-lecturer-on-mamluk-architecture-in-egypt/>

# SDG 11



## Indicator 11.2.4

### Public Access to Green Spaces

Misr International University (MIU) demonstrates a commitment to utilizing open and green spaces for the public. The university provides **free access** for the **public** to its open and green spaces as a general, ongoing community service for the **public at large**. The recorded activities include a sports day for the orphans of Al-Sondos Association, involving football and running races, which implies a free use of a green/open sports space, and an exhibition to market the products of the Dounyatna Association for the Blind, held on the university campus in an open area. These were specific, organized events benefiting the public outside the university.

#### Sports Day

The Community Service and Environmental Development Committee at the Faculty of Al-Asun and Mass Communication at Misr International University organized a sports day for the orphans of Al-Sondos Association in celebration of the International Day of Persons with Disabilities. This event was held on December 9, 2024, and aimed to enhance social inclusion. Fifteen orphans, accompanied by their supervisors, participated in various sports activities, including football and running races. The day concluded with a gift distribution ceremony that brought smiles to the faces of the participants. By organizing this event, the faculty contributed to achieving Goal 10 of the United Nations Sustainable Development Goals, which relates to promoting the reduction of inequality.

<https://www.miuegypt.edu.eg/miu-students-celebrate-international-day-of-persons-with-special-needs/>

<https://miuegypt.edu.eg/use-of-sports-facilities-by-outside-community-parties/>



## University Support for Dounyatna Association for the Blind

The University's Community Service and Environmental Development Council organized an exhibition to market the products of the Dounyatna Association for the Blind on Monday, November 18, 2024, on the university campus.

The exhibition featured distinctive handicrafts made by the visually impaired and blind members of the association, both male and female.

The University provided the necessary support by arranging round-trip transportation from Alexandria and supplying the required display materials. The university community actively participated by purchasing the products, demonstrating its commitment to social responsibility and inclusivity.

### Exhibition AND BAZARS

<https://www.miuegypt.edu.eg/miu-supports-the-dunyatna-society-for-the-visually-impaired/>



# SDG 11



## Indicator 11.2.5

### Arts and Heritage Contribution

Misr International University serves as an active contributor to local arts. It sustains a **theater group** capable of producing **fully booked public performances** at external venues (such as the Grand Taiba Theater) and maintains the artistic standards necessary to **compete at the National Theater Festival**, thereby integrating the university into the fabric of the national cultural sector.

The university's contribution to local arts is most visibly demonstrated through the production of major theatrical plays that are open to the public.

- **Major Productions ("Cinema 30"):** The university's theater group successfully staged the performance **"Cinema 30"**. This production is a significant indicator of the university's artistic output, moving beyond simple academic exercises to full-scale artistic productions.
- **High Public Attendance:** The performance held at the **Grand Taiba Theater** was reported as **"fully booked."** This specific metric demonstrates that the university's arts contributions are not only available to the public but are actively consumed and demanded by the local community, directly enriching the local cultural calendar.

#### Public Performances and Audience Engagement

<https://miuegypt.edu.eg/grand-taiba-theater-fully-booked-miu-theater-performance-cinema-30-ar/>

Beyond standalone performances, the university functions as a recognized body within the broader Egyptian arts ecosystem.

### **Engagement with the National Arts Scene**

- **National Theater Festival Participation:** The MIU Theater group actively competes in the **National Theater Festival**, the premier state-sponsored festival in Egypt (organized by the Ministry of Culture), involving competition against other major public and private universities, as well as independent and national troupes.
- **Institutional Contribution:** By submitting works to be judged alongside national peers, the university contributes to the development of the next generation of Egyptian artists and maintains a continuous presence in the country's annual artistic cycle.

<https://miuegypt.edu.eg/miu-theater-competes-in-national-theater-festival-ar/>

# SDG 11



## Indicator 11.2.6

### Record and Preserve Cultural Heritage

Misr International University (MIU) works to preserve and record intangible cultural heritage. "Intangible cultural heritage" includes oral traditions, social practices, and, crucially, the **knowledge and skills** concerning a nation's history and culture. Based on specific field activities and academic projects conducted by the Faculty of Mass Communication (MCM) and the Faculty of Al-Asun (Languages), this report demonstrates that MIU actively engages in the transmission of cultural knowledge to the younger generation, ensuring the preservation of Egypt's historical narratives and artistic traditions.

The Faculty of Mass Communication organized a strategic project involving a field trip to two of Egypt's most significant cultural repositories: the Museum of Islamic Art and the Coptic Museum.

#### Preservation of Religious and Historical Knowledge

- **Recording Heritage:** While museums house tangible artifacts, the role of Mass Communication students is to interpret, record, and disseminate the *stories* and *history* (intangible heritage) behind these artifacts. By engaging with these sites, students were tasked with documenting the diverse religious history of Egypt.
- **Preserving Knowledge:** The university explained that the objective was "bridging the gap between theory and practice." In the context of media

studies, this implies transforming historical data into communicative content. This facilitates the preservation of the **knowledge** of the Coptic and Islamic eras, ensuring that the narratives, traditions, and historical context of these periods are recorded and understood by contemporary students.

<https://www.miuegypt.edu.eg/mcm-students-embark-on-cultural-trip-to-islamic-coptic-museums/>

The Faculty of Al-Asun (Languages and Translation) executed a project involving a visit to the Mohamed Mahmoud Khalil Museum.

### Preservation of Artistic Tradition and Cultural Appreciation

- **Cultural Transmission:** Language and translation are intrinsically linked to culture. To preserve a language, one must preserve the cultural knowledge associated with it. This trip served to immerse students in the artistic heritage of the region.
- **Knowledge Transfer:** The visit was designed to enhance the students' cultural awareness. By exposing students to the history of the collection and the biography of Mohamed Mahmoud Khalil, the university ensures the **transmission of knowledge** regarding Egypt's modern history and its interaction with global art movements. This ensures that the "intangible" memory of Egypt's artistic patronage and political history is not lost to the current generation.

<https://www.miuegypt.edu.eg/al-alsun-field-trip-to-mahmoud-khalil-museum/>

Intangible Cultural Heritage is defined by UNESCO not just as folklore, but as "knowledge and practices concerning nature and the universe" and the transmission of such knowledge. MIU achieves this through:

### Analysis

1. **Educational Transmission:** By physically taking students to these locations, the university ensures the oral and intellectual transmission of historical traditions (Islamic, Coptic, and Modern Era) from experts/curators to students.

2. **Contextualization:** The projects encourage students to contextualize their studies (whether Media or Language) within the framework of Egyptian heritage. This preserves the *identity* and *cultural memory* of the nation, which are core components of intangible heritage.
3. **Student-Led Documentation:** Particularly in the case of Mass Communication, the "practice" component involves creating media (reports, photos, social media content) that serve as a modern archive of this heritage, effectively recording it for a digital audience.

# SDG 11



**Indicator 11.4.1**

## Sustainable Practices Targets

### Provision of Extensive Shared Transportation Scheme (Buses)

The university actively promotes sustainable commuting through the provision of a comprehensive and well-structured **shared transport scheme (bus service)** for its community. This action directly supports the reduction of individual private car usage, traffic congestion, and associated emissions.

#### Extensive Shared Transport Scheme

Metric	Detail
Total Buses	59
Total Bus Lines	29
Stops Covered	315
Geographical Scope	3 different cities
Beneficiaries (2023/2024)	713 Students All staff

- Subsidization**
- **Employees:** The bus service is **free of charge** for all university employees.
  - **Students:** The service is **free of charge** for students with low income and requires a subscription fee for the remaining students, confirming the provision of a subsidized transit option.

The university's bus system is designed to maximize utility and accessibility across various time slots and locations:

- Enhanced Service Coverage And Flexible Scheduling**
- **Extensive Network:** The **59 buses** operate across **29 dedicated lines**, providing service to **315 stops** spanning **3 different cities (Cairo, Giza, Al-Sharqua)**. This broad coverage ensures the service is accessible to a wide geographical distribution of the university community.
  - **Flexible Scheduling:** The schedule is structured to cover key time slots for both arrivals and departures, allowing students and staff to reliably plan their commute around their academic and work commitments:
    - **Arrival Times:** 8:30 AM and 10:00 AM.
    - **Departure Times:** 1:30 PM, 3:00 PM, 4:30 PM, and 6:00 PM.

This extensive and scheduled shared transport program constitutes a significant, tangible action by the university to promote sustainable commuting.

Transportation services office

All transportation services are managed by the transportation office, which facilitate convenient and reliable daily commutes for students and staff.

<https://www.miuegypt.edu.eg/services-facilities/transportation-services/>

# SDG 11



**Indicator 11.4.2**

## Promote Sustainable Commuting

### Provision of Extensive Shared Transport Scheme (Buses)

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The university provides **three (3) free parking lots** for students, employees, and guardians adjacent to the university campus.

**Parking Facilities**

<b>Parking Lot</b>	<b>Capacity (Private Cars)</b>	<b>Location</b>
<b>Parking Lot 1</b>	1,000	Opposite side of the university on the Cairo-Ismailia Desert Road
<b>Parking Lot 2</b>	300	Land beside the university
<b>Parking Lot 3</b>	300	In front of the university's main gate

# SDG 11



## Indicator 11.4.3

### Allow Remote Working

Misr International University has adopted and successfully implemented a technology-driven strategy to support and encourage telecommuting and flexible work for its staff. This is demonstrated by the high adoption rate of its VDI solution and the explicit support for **hybrid work models**.

#### Promotion and Allowance of Telecommuting/Remote Working

The university, through its Information Technology Department, explicitly supports and enables remote work:

Telecommuting/Remote Working

Aspect	Action
<b>Operational Goal</b>	The IT Department's technical support section aims to: <b>"Allow staff and academic members to work remotely from anywhere and access MIU information technology on premises resources..."</b>
<b>Enabling Technology</b>	The <b>Virtual Desktop Infrastructure (VDI)</b> is the core platform, described as <b>"a vital component in supporting secure remote access, digital workflow, and hybrid work models"</b> .

<b>Policy/Standard Practice</b>	The VDI platform is credited with supporting " <b>flexible work models</b> " and ensuring " <b>continuity of work and secure access to university data from any location.</b> "
<b>Employee Adoption</b>	Usage of the VDI platform increased by <b>74%</b> during the 2023/2024 academic year ( <b>from 86 to 150 users</b> ), reflecting " <b>the growing reliance on remote-access technology within academic and administrative departments.</b> "

### **Benefits Supporting Flexible Work**

The VDI solution provides specific benefits that underscore the university's commitment to staff mobility and remote work enablement:

- **Accessibility:** Users can access the system from a wide range of personal devices, including Windows, macOS, Linux, Android, and iOS, ensuring full mobility.
- **BYOD (Bring Your Own Device):** Employees are "not limited by personal device specifications" and can log in from home PCs, laptops, tablets, or phones with the same performance level as an office computer.
- **Unified User Experience:** Regardless of location (campus, home, or abroad), users receive "the same desktop, same applications, same data, and same performance."

# SDG 11



## Indicator 11.4.4

### Affordable Housing for Employees

Misr International university (MIU) provides **free** housing for its expatriate workers, which exceeds the standard definition of "affordable housing" by offering accommodation at no cost.

Based on the Academic Year 2023/2024 report, the university provides comprehensive support for its employees, particularly its expatriate workforce:

**Free Housing for  
262  
employees**

- 1. Free Accommodation:** The university provides **free, dedicated housing** for all expatriate university workers (non-local staff). This accommodation is fully equipped with necessary facilities, services, and furniture to ensure appropriate living standards.
- 2. Total Users:** During the 2023/2024 academic year, a total of **262 employees** utilized the university's housing:
  - Security Staff: 115
  - Workers (General): 95
  - Drivers: 10
  - External Labor: 42

### Other Services

- 3. Food Provision:** The university provides diverse daily food rations to all employees without exception or discrimination.

4. **Financial Support:** The university offers aid and **soft loans** to workers during special circumstances (e.g., marriage, illness, death), also without discrimination.

#### **External Labor (Contractors)**

The university ensures equitable treatment for workers brought in through specialized contractors or companies:

- **Parity in Benefits:** External labor is treated **equally** (in kind) to directly hired university employees regarding salaries, accommodation, and other privileges.
- **Contractual Obligation:** The university requires contractors and companies to commit fully to providing all labor rights stipulated by labor law for the workers they supply. This commitment is explicitly stated in the mutual agreements, and the contractor/company is held accountable accordingly.

#### **Health and Safety Commitment**

The university is also committed to ensuring a safe working environment:

- **Safety Equipment:** Necessary safety and security equipment is provided in work areas (e.g., head/eye protectors, safety harnesses, and safety shoes).
- **Medical Care:** In the event of any work-related injuries or accidents, the university covers **all treatment expenses** for all employees, both internal and external.

# SDG 11



## Indicator 11.4.5

### Affordable Housing for Students

The International Office (IO) assists students who joins Misr International University (MIU) through the exchange programs with partner universities, from the application process through their stay until their departure from Egypt. Among these services is the provision of affordable housing as follows:

#### Free Housing for 13 Students

- Helping to find the most appropriate apartments for international students, in terms of cost, safety, and accessibility to all services and facilities that they may need.
- In case the students decide to find their own accommodation, we guide and follow up with them to make sure they choose a convenient option.

The university provided housing for ***13 international students*** in the academic year 2023/2024.

# SDG 11



## Indicator 11.4.6

### Pedestrian Priority on Campus

The University undertook significant measures to ensure the safety of students and visitors on the Cairo-Ismailia Desert Road (a major highway). The university's commitment is demonstrated through several key initiatives categorized by location:

- The university covered the costs for the construction of a **pedestrian bridge** on the Cairo-Ismailia Desert Road in front of the university. This was done in cooperation with the Armed Forces Engineering Authority to secure the movement of students, visitors, and those attending neighboring schools.
- The bridge connects the waiting area on the opposite side with the slow lane in front of the university.
- The Security administration secures the routes for students and visitors starting from the bridge staircase until the entry gates.
- The university also covered the costs for the construction of a **medium-height concrete wall** on both sides of the road in front of the university area in both directions, to preserve the safety and security of university students, visitors, and neighboring facilities.
- The university arranged with neighboring schools to install **special speed bumps** along the slow lane.

#### Off Campus

- This was done to prevent cars from driving against the flow of traffic.
- They also installed **directional signs** to regulate traffic movement in the slow lane.
- The university covered the costs of **preparing and leveling the right-of-way** adjacent to the university. This facilitates the parking of neighboring school buses to ease the burden on traffic movement in the slow lane, thereby securing the movement of university students, visitors, and those attending neighboring schools



### On Campus

- The campus design relies on the **complete separation** of movement and routes between pedestrian routes and vehicular traffic.
- The paths for pedestrians (students or employees) **do not overlap or intersect** with vehicular movement.
- Vehicular traffic movement inside the campus is regulated by the Security Administration and supervisors.



# SDG 11



## Indicator 11.4.7

### Local Authority Collaboration Regarding Planning and Development

The Faculty of Engineering Sciences and Arts at Misr International University enhances the scientific and practical role of its two academic departments, Architecture and Communications, and maximizes the university's role in serving the community and its surrounding area as well as communities outside the university's geographical scope.

The student club "ASCC For Help" held several events inside and outside the university during the semester, under the supervision of Dr. Mohamed El Sawy, Vice Dean of the Faculty of Engineering for Community Service and Environmental Affairs.

#### 1. Case Study and Winter Exhibition:

- More than 150 houses in Yousef El-Seddeek village, Fayoum, were studied on 24/11/2023.
- The study revealed that the most in-need categories require assistance in:
  - **Housing:** Building roofs, wall restoration, providing winter blankets.
  - **Clothing:** Clothes for children's schools, winter exhibition, summer exhibition.
  - **Health:** The group most affected by asthma and disc problems.

#### Student Activities

- **Awareness:** Campaigns on the harms of child marriage, teeth cleaning, and wearing shoes.
- **Food:** Distribution of Ramadan bags, daily meals, and meat.
- A plan was implemented starting with a winter clothes exhibition, where more than 100 pieces of clothing were distributed at the beginning of the academic year, on 24/11/2023.
- 2. Blanket Distribution:
  - 250 blankets were distributed in Salem Gad village, Fayoum, on 22-12-2023, based on the case study and donations.
- 3. Distribution of External Textbooks for Children in a Shelter:
  - Donations were collected to purchase external textbooks for the children of Dar Al-Huda Al-Islami (shelter) at the beginning of the academic year on 22-11-2023.



### **Alexandria Field Trip:**

On Wednesday, September 27, 2023, third-year students visited Alexandria, as part of their Architecture Design (3B) course requirements. They had a tour of Bibliotheca Alexandrina in the vicinity of the location assigned for their design project. Afterwards, students visited Alexandria Opera House “Sayed Darwish Theater” to explore theater design principles that would assist them in their design projects for this semester.

### **Third-Year Architecture Students Field Trip to Alexandria | Misr International University**

### **Fayoum City Field Trip:**

The department of Architecture organized a site visit to El Fayoum City in coordination with the sustainable design and urban design courses. The students had an opportunity to gain hands-on experience and explore the project sites of both courses. The tour included visiting Tunis Village and Wadi El Rayan areas, where the students had an inspiring day of learning and discovering new places, and talking to locals which helped them gain new insights about the site.

The site visit was held under the supervision of the sustainable design team: Dr. Tamer Awny (Lecturer at MIU), Arch. Radwa El Fardy (Assistant Lecturer at MIU), Arch. Layla Ashraf (Assistant Lecturer at MIU), and Arch. Merna Maher (Teaching Assistant at MIU); with collaboration with the urban design team: Dr. Ahmed Helmy (Lecturer at MIU), Dr. Sally Murshed (Lecturer at MIU), Arch. Mostafa Mastour (Teaching Assistant at MIU), and Arch. Clara Ashraf (Teaching Assistant at MIU).

### **Fifth-Year Architecture Students Visit Fayoum City | Misr International University**

## **Communication and Interaction**

# SDG 11



## Indicator 11.4.8

### Planning Development - New Build Standards

The university's approach to new construction and modifications is based on adherence to the Egyptian Code for Building.

National Certifying Body: The code is issued by the Housing and Building National Research Center (HBRC), which is the official governmental body responsible for setting standard specifications and acceptance criteria for the design and execution of facilities in Egypt. While the Egyptian Code is the foundational standard, the HBRC is also involved in preparing and updating more specific codes, including the **Environmentally Friendly Green Building Code** and the **Code for Rationalizing Energy Use in Residential and Commercial Buildings**, indicating an increasing national focus on sustainability in construction.

#### Operational Sustainability and Energy Efficiency Initiatives

While the primary standard is the Egyptian Code, the university demonstrates a proactive commitment to key sustainability goals, particularly in the area of **energy generation and consumption management**. This goes beyond passive building design and focuses on active sustainable operations.

Initiative	Implementation Detail	Sustainability Impact
<b>Solar Power Plant</b>	Contracted with a specialized company to establish a <b>solar photovoltaic (PV) power station</b> on university rooftops, covering an area of <b>3,000 m<sup>2</sup></b> (expandable).	<b>Reduction in Carbon Footprint:</b> Shifts energy reliance from less-sustainable sources (likely generators) to a <b>clean energy source</b> . This is a direct contribution to climate action
<b>Annual Energy Production Goal</b>	The solar station is expected to generate <b>336,000 kWh annually</b>	<b>Energy Security &amp; Financial Savings:</b> Provides a reliable, predictable source of power, decreasing dependence on external utility grids and reducing overall operating costs.
<b>Lighting Replacement</b>	<b>Continuous replacement</b> of traditional lighting fixtures with <b>lower electricity consumption alternatives</b> (e.g., LED or other energy-efficient lighting).	<b>Energy Demand Reduction:</b> A core strategy for reducing overall electricity consumption across the campus infrastructure.
<b>Automated Lighting Controls</b>	<b>Expansion in the use of presence and motion detectors</b> (sensors) in spaces.	<b>Energy Waste Minimization:</b> Ensures lights are only used when spaces are occupied, directly combating energy waste in unoccupied areas, which is a common issue in large academic facilities.
<b>Power Infrastructure</b>	The university primarily relies on <b>private power stations</b> (generators) for energy, indicating a high demand for uninterrupted power. This high operational reliance on generators makes the transition to solar energy critical for environmental improvement.	<b>Operational Resilience:</b> The private power stations provide essential reliability for continuous academic, research, and administrative services, but the solar project provides the necessary path toward <b>decarbonization</b> of this critical energy supply.

The university also ensures a high degree of operational and structural compliance that aligns with best practices for infrastructure longevity and asset protection, a key element of long-term sustainability.

### **Maintenance and Safety Compliance**

- **Routine Maintenance:** All electrical systems, equipment, and panels undergo **periodic maintenance and inspection.**
- **Asset Protection:** A **central FM200 fire suppression system** is installed to protect all main power distribution boards and electrical panels. This is an important detail as **FM-200** (Heptafluoropropane) is a **clean agent** fire suppressant that is safe for equipment and leaves no residue, minimizes asset damage and downtime, and has **zero Ozone Depletion Potential (ODP)**, making it a more environmentally responsible choice compared to older halocarbon agents.