MITS

MADANAPALLE INSTITUTE OF TECHNOLOGY & SCIENCE

(Deemed to be University under Section 3 of UGC Act, 1956)

ENERGY-EFFICIENT RENOVATION AND BUILDING POLICY

Document information	Details
Policy Number	MITS_MPL/SDG/EERBP-2024/04 | Revision 01 (2026)
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SDG Mapping	SDG 7 - Affordable and Clean Energy

1. Policy Statement

Madanapalle Institute of Technology & Science (MITS), Deemed to be University, is committed to energy-efficient construction, renovation and operation of its buildings. New buildings and renovation projects shall incorporate suitable energy-saving measures in accordance with applicable energy-conservation requirements, technical standards, safety provisions and institutional needs. The University encourages efficient use of electricity, natural lighting, ventilation and renewable-energy technologies.

2. Purpose

- To ensure energy-efficiency considerations are included in the planning and implementation of new buildings and renovations.
- To reduce avoidable electricity consumption and energy wastage across campus facilities.
- To encourage efficient lighting, air-conditioning, electrical equipment and rooftop solar energy systems.
- To establish responsibilities for implementation, monitoring, awareness and periodic review.

3. Scope

This policy applies to academic, administrative, laboratory, library, hostel and other buildings and associated campus facilities managed by the University. It covers new construction, renovation, replacement of major energy-consuming equipment, and routine energy-conservation practices.

4. Definitions

- Energy-efficient renovation and building: Planning, construction and improvement practices intended to reduce energy consumption while maintaining functionality, safety and occupant comfort.
- HVAC: Heating, ventilation and air-conditioning equipment and systems.
- Rooftop solar PV capacity: The combined rated direct-current capacity of installed photovoltaic modules, expressed in kilowatt-peak (kWp).

5. Policy Provisions

1. New construction and major renovation proposals shall consider applicable building-energy conservation requirements and identify practical efficiency measures during technical review.
2. Building design and renovations shall consider natural daylight, appropriate ventilation, shading and measures that reduce unnecessary heat gain, wherever feasible.
3. Energy-efficient LED lighting and suitable switching or automatic controls shall be preferred for new installations and replacements.
4. Where air-conditioning is required, equipment selection, operating settings and maintenance shall consider energy efficiency without compromising functional needs.
5. Electrical equipment, pumps and other major energy-consuming devices shall be selected and maintained with regard to energy efficiency, performance and safety.
6. The University shall maintain and improve rooftop solar energy systems and preserve records of installation, operation and maintenance.

The updated rooftop solar photovoltaic installation comprises:

Installation group	No. of modules	Rating per module	Rated capacity
Earlier installation	478	315 W	150.57 kWp
Additional installation	404	620 W	250.48 kWp
Total	882	—	401.05 kWp

The above capacity represents installed module nameplate rating, not annual electricity generation. The Electrical / Estate Office shall maintain the related solar asset register and generation records.

7. Instructions encouraging users to switch off lights, fans, air-conditioners and other equipment when not in use shall be displayed or communicated at appropriate locations.
8. Where practical, timers, occupancy-based controls and other suitable devices may be used to limit unnecessary electricity use.
9. Lighting and equipment use in common areas shall be reviewed outside working hours, and unnecessary decorative lighting shall be minimised.
10. The Electrical / Maintenance Section shall monitor energy consumption and identify abnormal usage or avoidable wastage, with corrective action wherever appropriate.
11. Awareness programmes on energy conservation shall be encouraged through the SDG Cell, NSS Unit and relevant departments.

6. Implementation and Monitoring

Responsible section / unit	Responsibility
Site / Estate Office	Coordinate implementation in building maintenance and renovation; maintain relevant building and solar installation records.
Department of Civil Engineering	Provide technical inputs for energy-efficient building design, renovation and natural ventilation measures.
Electrical Maintenance / EEE Department	Support efficient electrical systems, energy monitoring, rooftop solar maintenance and corrective measures.
SDG Cell / IQAC	Coordinate policy review, institutional documentation and awareness-related records.
Horticulture / Security Personnel	Support campus-level conservation practices and appropriate implementation measures.

NSS Unit	Organize or coordinate energy-conservation awareness activities.

7. Awareness and Training

The University shall encourage periodic awareness campaigns for students, faculty, staff and other campus users on switching off unused equipment, reducing energy wastage and responsible consumption. Energy conservation awareness activities may be organized around National Energy Conservation Day on 14 December and other suitable occasions.

8. Review and Amendments

The policy shall be reviewed once every two years, or earlier if required by changes in applicable regulations, campus infrastructure or institutional priorities. The SDG Cell shall coordinate the review with the relevant technical and administrative sections. Any revision shall be recorded and approved by the competent University authority.

Prepared by
SDG Cell Coordinator

Ch. Srinivas
(CH. SRINIVAS)

Reviewed by Assistant Dean
Accreditations

Pavey
(Dr A.V. Pavem Kumar)

Approved by Registrar

REGISTRAR
Madanapalle Institute of Technology & Science
(Deemed to be University)
MADANAPALLE - 517 325, A. P.

MITS
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