Dr.M.G.R.
EDUCATIONAL AND RESEARCH INSTITUTE
Deemed to be University

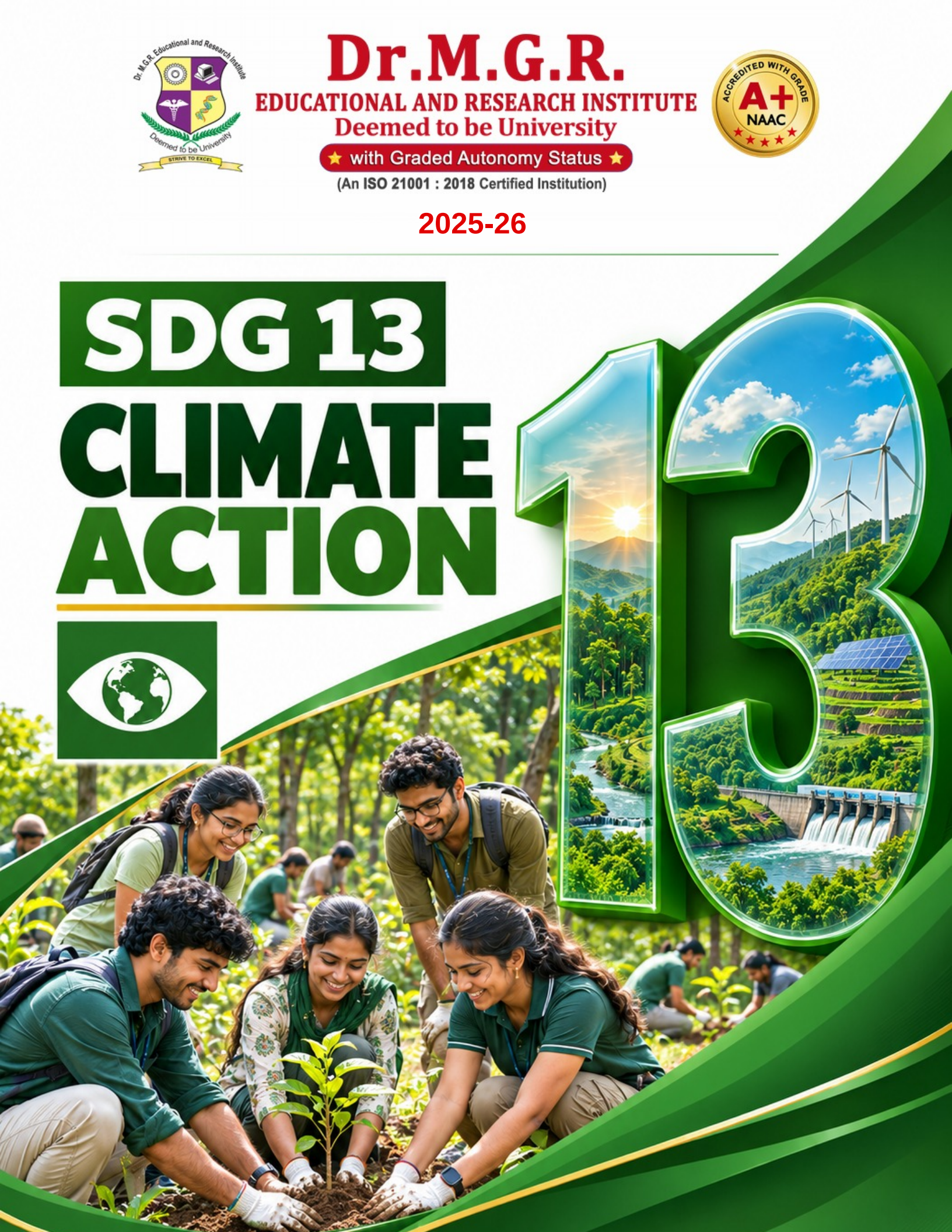
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(An ISO 21001 : 2018 Certified Institution)

ACCREDITED WITH GRADE A+ NAAC

2025-26

SDG 13
CLIMATE ACTION



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SDG 13

CLIMATE ACTION



Dr. E. Sheeba Percis,
Professor and Joint Registrar
Team Lead-International Rankings

Dr. C. B. Palanivelu
Registrar

UN SDG 13: CLIMATE ACTION — COMPLIANCE PORTFOLIO

Dr. M.G.R. Educational and Research Institute (ERI) drives carbon reduction and sustainability through its Green & Smart Campus Policy.

- **Core Sustainability Goals:** Focuses on zero-waste operations, resource conservation, and smart energy management to combat climate change (UN SDG 13), closely integrated with SDGs 7, 11, 14, and 15.
- **Institutional Social Responsibility:** Engages in energy and water conservation, pollution control, disaster management, energy audits, and systematic recycling/reuse.
- **Academic Integration:** Embeds environmental stewardship directly into academic curricula and syllabi to foster student and stakeholder responsibility.

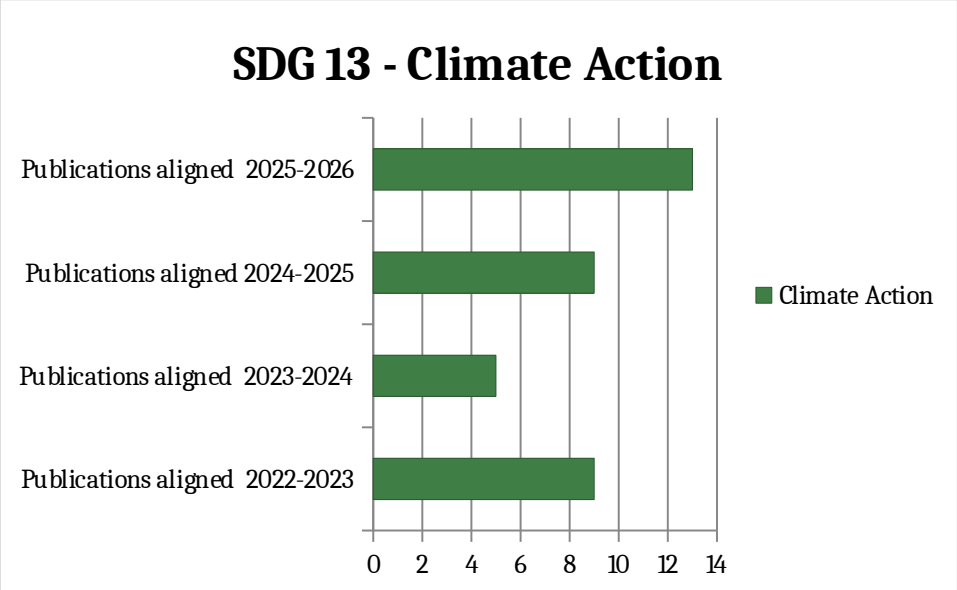
Divestment from Carbon-Intensive Energy Industries: Dr. M. G. R. Educational and Research Institute will divest its investments from carbon-intensive energy industries, with a particular focus on coal and oil. The university will actively seek to reduce its exposure to companies involved in the extraction, production, or distribution of fossil fuels.

- Integrating Green Infrastructure and Operations
- People-Centric Climate Action and SDG Advocacy
- Mobility Shift and Carbon Savings
- Research, Innovation, and Knowledge Creation
- Sustainable landscaping
- Promote sustainable procurement

Research Metrics

Dr. M.G.R. Educational and Research Institute (ERI) drives several interdisciplinary research initiatives and institutional frameworks specifically targeting climate change mitigation, sustainable development, and clean technology. Centred around its flagship **Carbon Zero Campus Commitment 2045**, the university's research ecosystem focuses heavily on providing actionable, evidence-based solutions to global environmental crises.

The provided horizontal bar chart illustrates the quantitative trends in research output specifically mapped to **UN Sustainable Development Goal 13 (Climate Action)** across four consecutive academic cycles from 2022 to 2026.



Research Metrics

- **Accelerating Research Momentum:** Following a temporary contraction in the 2023–2024 period, the subsequent two cycles demonstrate robust, year-over-year growth. The jump from 9 to 13 publications in the final period signals a strong institutional pivot toward climate-centric funding, resource allocation, or faculty prioritization.

- **Alignment with Institutional Policies:** This structural increase in publication volume directly correlates with Dr. M.G.R. ERI's strategic goals, such as the *Carbon Zero Campus Commitment* and the interdisciplinary focus within the Department of Earth and Atmospheric Sciences.

- **Broader Research Integration:** The upward trajectory confirms that academic stakeholders are successfully embedding climate change modeling, energy efficiency tracking, and resource conservation into peer-reviewed engineering and scientific domains.

1. Dedicated Academic Hubs & Centers

Department of Earth and Atmospheric Sciences: Serves as a primary academic driver for climate tracking, offering focused research programs in climate change modeling, environmental monitoring, geospatial technology, and disaster management.

SDG Centre for International Coordination: Aligned with the United Nations Academic Impact (UNAI), this centre acts as an umbrella hub to integrate UN Sustainable Development Goals (primarily SDG 13: Climate Action) directly into higher education and multi-departmental research.

2. Core Technological & Environmental Research Areas

The institution focuses its scientific and engineering research on three fundamental environmental pillars:

Renewable Energy Integration: Research efforts are directed toward optimizing microgrids, scaling smart power electronics, and maximizing the efficiency of campus rooftop solar layouts.

Electric Vehicle (EV) Infrastructure: Investigating grid-to-vehicle power distribution networks, backed by practical testing on campus-based 30 kW EV fast-charging research stations.

Resource Optimization & Waste Valorization: Engineering research focused on automated water conservation systems, smart energy management, and scalable recycling techniques aimed at minimizing the university's environmental footprint.

3. Community-Led Action & Action Research

The Institution of Green Engineers (IGEN): Under joint university leadership, this UN DESA-indexed organization pilots student-driven "action research" projects like the *#ENSAV9MANTRAS* campaign. This initiative tracks and measures the direct impact of resource-saving behavioral adaptations across tens of thousands of regional households to generate data on localized carbon and water reductions.

Climate Literacy Forums: The institute frequently structures meteorological awareness programs—such as its *Decode Super El Niño* initiative led by regional cyclone specialists—to bridge the gap between complex climate patterns and student-led engineering solutions.

EVIDENCE LINKS
https://drmgrdu.ac.in/about/ranking/sustainable-development-goals/
https://drmgrdu.ac.in/about/ranking/sustainable-development-goals/carbon-zero
https://drmgrdu.ac.in/about/ranking/sustainable-development-goals/sustainability-impact
https://drmgrdu.ac.in/uploads/Policies/Divesting_Policy.pdf
https://drmgrdu.ac.in/uploads/Policies/Policy_on_Energy_Efficient_Building_Renovations.pdf
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https://drmgrdu.ac.in/humanities-and-science/earth-and-atmospheric-sciences/home

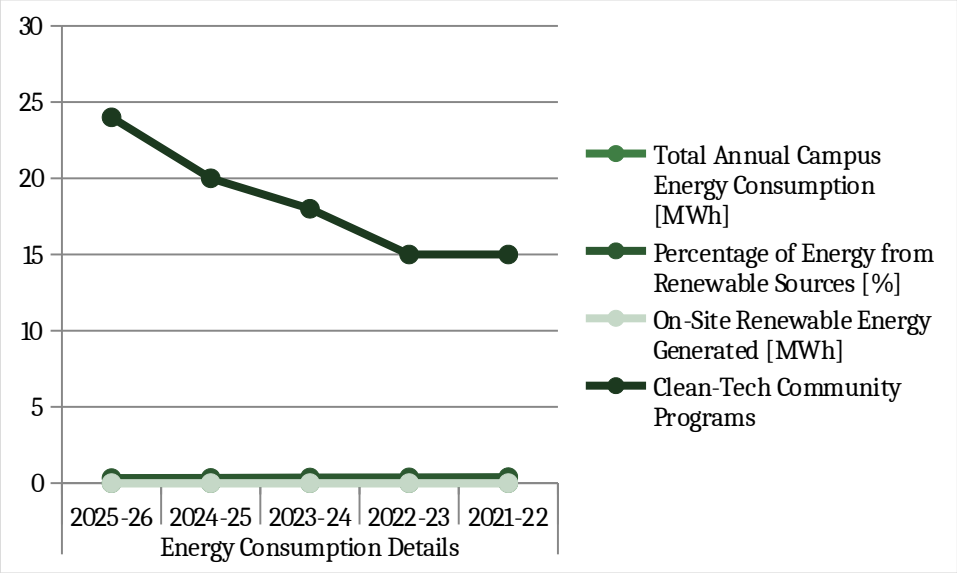
Total Annual Campus Energy Consumption

1. Campus Energy Footprint & Consumption Trajectory

Steady Volumetric Growth: Total Annual Campus Energy Consumption has risen continuously over the evaluated period. It expanded from a baseline of **14,256 MWh in 2021–22** to a peak of **15,606 MWh in 2025–26**.

Compound Increase: This represents an absolute consumption surge of **1,350 MWh (~9.47%)**, pointing toward structural campus expansions, increased enrollment numbers, or a higher density of energy-intensive technical laboratories.

	Energy Consumption Details				
	2025-26	2024-25	2023-24	2022-23	2021-22
Total Annual Campus Energy Consumption [MWh]	15606 MWh	15298 MWh	14744 MWh	14562 MWh	14256 MWh
Percentage of Energy from Renewable Sources [%]	0.329	0.34	0.366	0.378	0.39
On-Site Renewable Energy Generated [MWh]	8.9 MWh	9.0 MWh	9.1 MWh	9.3 MWh	9.6 MWh
Clean-Tech Community Programs	24	20	18	15	15



Campus energy Trend