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

★ with Graded Autonomy Status ★

(An ISO 21001 : 2018 Certified Institution)

ACCREDITED WITH GRADE A+ NAAC

Sustainability Report 2024 – 2025

12 RESPONSIBLE CONSUMPTION AND PRODUCTION

SUSTAINABLE DEVELOPMENT GOALS



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SDG REPORT

2024-2025

Dr MGR ERI SDG Report 24-25

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

Dr. C. B. Palanivelu

Registrar

SDG 12

RESPONSIBLE CONSUMPTION AND PRODUCTION



The SDG 12 aims to reduce the use of natural resources and toxic materials, minimized the generation of waste and pollutants, promote resources and energy efficiency, provide access to basic services, green jobs, better quality of life, reduce future economic, environmental and socials costs, strengthen economic competitiveness and reduce poverty.

Sustainability at DRMGRERI begins with infrastructure and operational systems. Rooftop solar panels across multiple campuses generate nearly 234,900 kWh annually, directly replacing fossil fuel electricity and reducing 192 tonnes of CO2 emissions per year. A campus-wide energy efficiency program, including the deployment of LED lighting and BLDC fans, contributes additional annual savings of 68,000 kWh. Together, these measures reduce energy costs, improve efficiency, and make renewable energy central to operations.

Wastewater and liquid waste management are equally robust. With 200,000 liters/day sewage treatment plants, DRMGRERI ensures 100% of wastewater is treated and reused for flushing, cooling, and landscaping, saving 60 million liters of freshwater annually. Sludge is converted into organic compost, supporting a green campus. Hazardous effluents and biomedical waste are managed in compliance with CPCB and TNPCB norms, ensuring zero untreated discharge. On the solid and e-waste front, composting pits and biogas plants convert organic waste into usable energy and manure. Annual collection drives manage over 100 kg of e-waste, while student pledges ensure responsible disposal. By approaching waste as a resource, the Institute demonstrates circular economy principles in action.

Transportation is a major contributor to emissions, and DRMGRERI has pioneered a mobility shift. With two EV charging stations (60 kW and 120 kW), the University supports a growing electric fleet: 4 EV buses, 5 EV cars, 10 EV autos, and 4 EV buggies.

Initiatives taken:

Waste Management: MGRERI has a multi-level, systematic waste management policy.

- Segregation: The campus uses color-coded bins to segregate waste.
- Plastic Ban: Single-use plastics are banned on campus, with reusable steel utensils used in the canteen to minimize waste.
- Recycling and Reuse: The University recycles solid waste like paper and metal scraps and reuses construction debris.
- Composting: A vermi composting yard turns biodegradable organic waste into bio-fertilizer for the campus grounds.
- E-waste: The institute follows eco-friendly methods for disposing of electronic waste and has a contract with an approved e-waste management facility.

Water Management: The institute's policies emphasize conservation and recycling.

- Liquid Waste: Multiple sewage treatment plants (STPs) on campus treat wastewater, which is then reused for gardening.
- Water Harvesting: A rainwater harvesting system is in place to replenish the groundwater table.

Green Campus Initiatives: MGRERI integrates broader sustainability goals into its campus infrastructure.

- Automobile Restrictions: The use of private vehicles on campus is restricted to manage air and noise pollution.
- Green Cover: The University works to increase the campus's green cover by planting more trees.

Awareness and Education: The University uses education to foster a culture of sustainability among its community.

- SDG Club: Student-led SDG clubs promote the United Nations' sustainability goals through campaigns and activities.
- Workshops and Audits: The institute conducts regular environmental audits and training programs to raise awareness about sustainability and track its progress.

MGRERI conducts research in environmental sustainability, covering areas like waste management, water conservation, and renewable energy. The University is recognized for its

commitment in promoting sustainable living, responsible consumption and energy responsibility.

EVIDENCE LINK:
https://drmgrdu.ac.in/policies
https://drmgrdu.ac.in/uploads/QS/TL/SDG.pdf
https://drmgrdu.ac.in/engineering/civil/research/
https://www.facebook.com/ACSArunKumar/posts/congratulations-to-dr-l-ramesh-joint-registrar-of-dr-mgr-university-on-receiving/1242851251190991/
https://drmgrdu.ac.in/uploads/QS/Social_Activities/Environment%20Impact/7%20Green%20audit%20certificate.pdf

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