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Energy Efficiency Plan to Reduce Energy Consumption at Amrita Vishwa Vidyapeetham



Date – 30/December/2025

Overview

Amrita Vishwa Vidyapeetham's Energy Efficiency Plan aims to cut energy use per person by 20% by 2030, against a 2024 baseline. It covers all 10 campuses, about 10 million sq. ft. of buildings and about 32,000 students and staff.

The plan is part of Amrita's Sustainable Campus Policy and its goal of net-zero emissions by 2030. It works in three ways: use less energy, use it more efficiently, and supply what remains from renewable sources. All campus buildings follow Bureau of Energy Efficiency (BEE) standards, and Amrita holds IGBC Platinum and LEED green building certification.

Baseline and measurement

Amrita used 244,800 GJ of energy from all sources in 2024, about 7.65 GJ per person. This is the baseline the plan measures against.

Source (2024)	Energy (GJ)
Grid electricity	107,962
Solar and other low-carbon sources	136,221
Diesel generators	617
Total	**244,800**

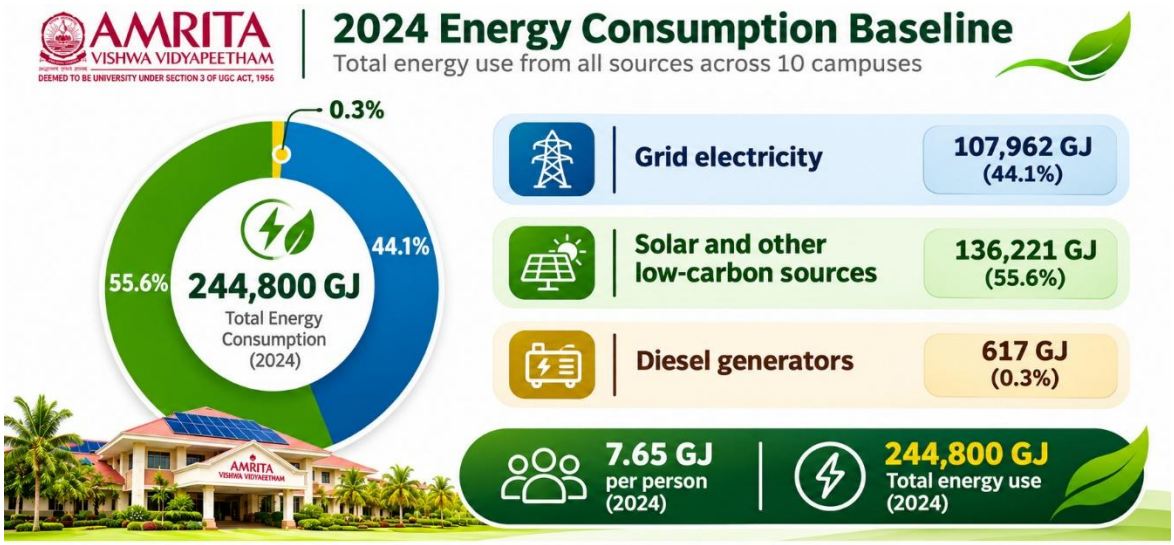

Figure: *Amrita Vishwa Vidyapeetham's total energy consumption in 2024 (244,800 GJ), with 55.6% from solar and other low-carbon sources, 44.1% from grid electricity, and 0.3% from diesel generators; the corresponding energy use is 7.65 GJ per person.*

Amrita Vishwa Vidyapeetham's 2024 energy consumption of 244,800 GJ, comprising 55.6% solar and other low-carbon sources, 44.1% grid electricity, and 0.3% diesel generators.

Energy use is tracked through utility bills, sub-meters and a Building Energy Management System (BEMS) in every building. The BEMS reports Energy Use Intensity for each building in real time and flags unusual use. Energy reviews are held every month to find areas of high waste.

Governance

The Carbon Neutrality Management Committee owns the plan and reviews it every year. Campus teams run it day to day.

Body	Role
Carbon Neutrality Management Committee	Approves the plan, its targets and budget; reviews progress each year
Office of Sustainability	Runs the BEMS dashboards and monthly energy reviews; reports results
Campus Carbon Management Committees	Carry out measures on each campus; act on review findings
Estate, Facilities and Electrical departments	Operate and maintain equipment; install upgrades
National Service Scheme and student clubs	Run awareness campaigns such as Energy Conservation Week

Efficiency measures

The plan sets measures in eight areas. Measures already in place save 379,200 kWh a year, as measured by the BEMS.

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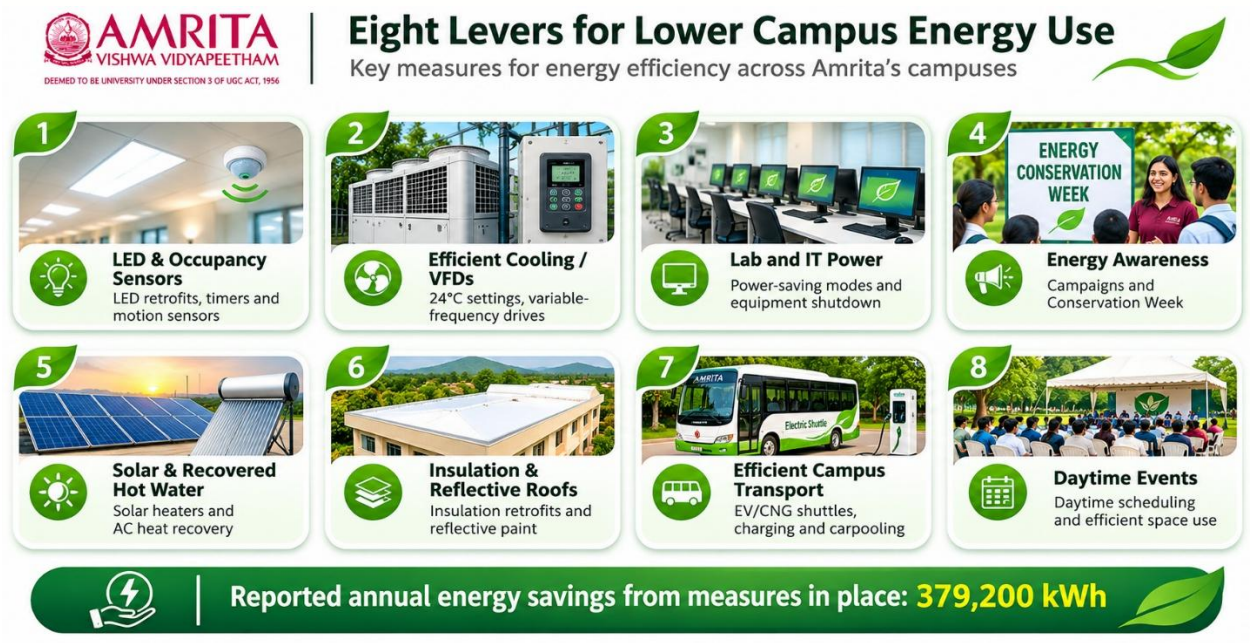

Amrita Vishwa Vidyapeetham's eight key energy efficiency initiatives, including LED lighting, efficient cooling, smart power management, renewable energy, sustainable transport, and awareness programmes, contributing to reported annual energy savings of 379,200 kWh.

Area	Measures	Results so far
Lighting	LED retrofits; motion sensors and timers in common areas; limits on decorative lighting	1,200 LEDs fitted in older buildings and 1,000 in new spaces (2023); decorative and festival lighting use down 85%
Cooling (HVAC)	Thermostats set to 24°C per BEE guidance; variable frequency drives; shorter operating hours; shaded or double-glazed windows	VFD-controlled HVAC in all buildings
Building use	Shorter hours in low-use buildings; insulation retrofits; reflective paint; green roofs	Insulation in 58% of buildings
Computers and labs	Power-saving modes; shutdown after use; consolidated lab hours; energy-efficient computers	Efficient monitors and low-power processors across labs
Water heating	Solar water heaters; heat recovered from air conditioners; off-peak limits	50% of hot water from recovered heat
Transport	Solar-powered and electric shuttles; fewer trips in low-demand periods; solar EV charging; carpooling and cycling	5 solar EV charging stations; 45% of the fleet electric or CNG
Events	Daytime scheduling; solar generators	In place for campus events
Awareness	Energy Conservation Week (27–30 November 2023) with posters, debates, an ideathon and a hackathon	Run by the National Service Scheme

Targets, monitoring and review

The plan's main target is a 20% cut in energy use per person by 2030, measured against 7.65 GJ per person in 2024.

By	Target
2025	Grid electricity dependence cut to about 30% of demand
2026	Energy audit of every building; Energy Use Intensity benchmark set for each one
2027	90% of lighting energy-efficient
2028	Smart controls and efficient cooling in 70% of buildings
2030	Energy use per person 20% below 2024; net-zero emissions
2035	100% renewable energy

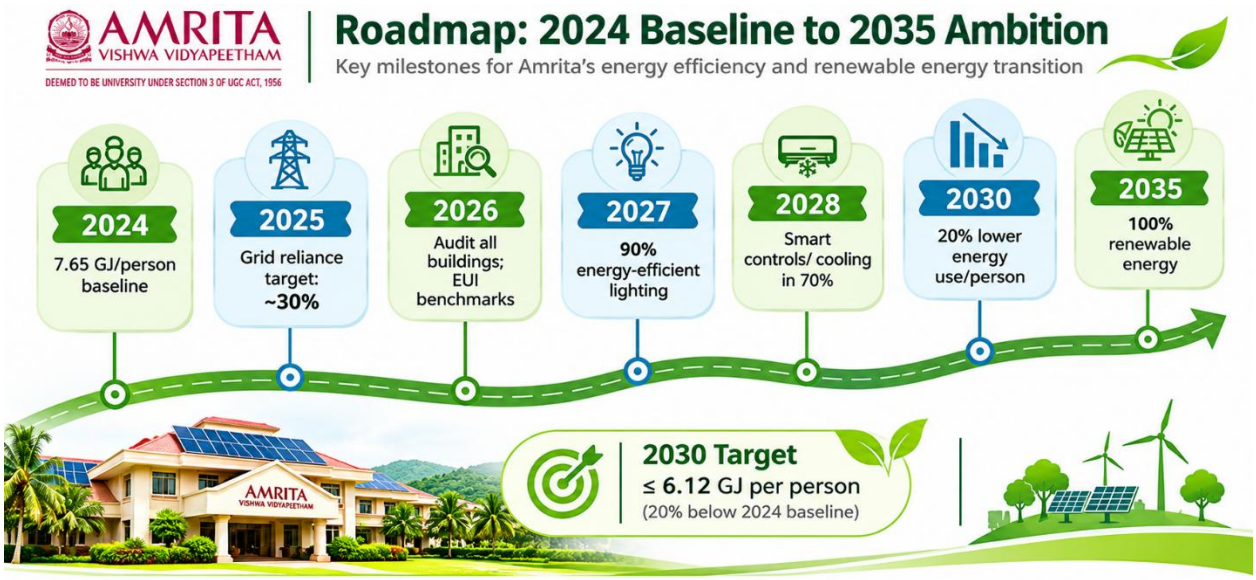

***Figure:** Roadmap for Amrita Vishwa Vidyapeetham's energy transition, from a 2024 baseline of 7.65 GJ per person to a 20% reduction by 2030 (≤ 6.12 GJ per person) and 100% renewable energy by 2035.*

Amrita Vishwa Vidyapeetham's energy efficiency roadmap (2024–2035), highlighting energy audits, efficient lighting, smart building controls, a targeted 20% reduction in energy use per person by 2030, and 100% renewable energy by 2035.The Office of Sustainability tracks progress monthly on the BEMS dashboards.

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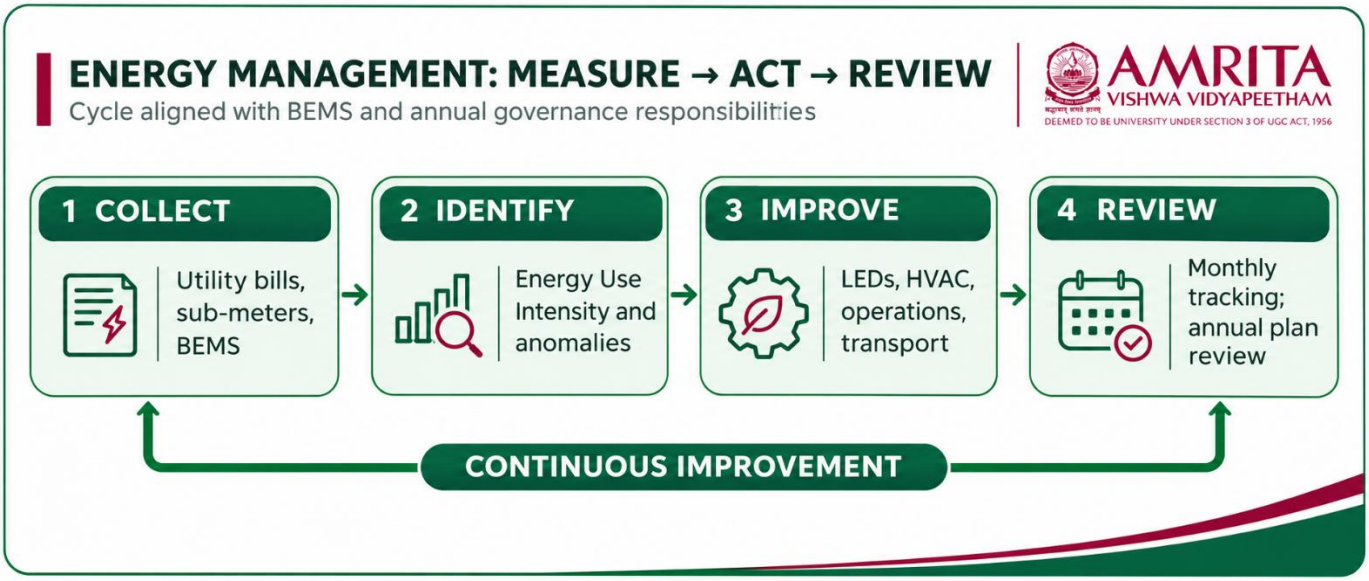

Amrita Vishwa Vidyapeetham's Continuous Energy Management and Improvement Cycle, illustrating the systematic collection, monitoring, optimisation, and review of energy performance through Building Energy Management Systems (BEMS), energy-efficient technologies, and periodic assessments to support sustainable campus operations and reduced energy consumption.