

GITAM: GANDHI INSTITUTE OF TECHNOLOGY AND MANAGEMENT

(Deemed to be University u/s 3 of the UGC Act, 1956)

A Category - I Deemed to be University

Visakhapatnam | Hyderabad | Bengaluru

**The Policy for
Carbon Reduction Targets**



Contents

1	Introduction	1
1.1	Scope 1 Emissions:.....	1
1.2	Scope 2 Emissions:.....	1
2	Carbon Reduction Targets:.....	1
3	Renewable Energy Integration:.....	2
4	Energy Efficiency Measures:.....	2
5	Sustainable Mobility Initiatives:	3
6	Waste Management and Recycling:	3
7	Awareness and Education:	3
8	Monitoring and Reporting:.....	3
9	Conclusion:	3

1 Introduction

As a part of its contribution to the sustainability goals, GITAM Deemed to be University is committed to the carbon reduction targets, particularly for Scope 1 and Scope 2 emissions. GITAM, as a leading educational institution, recognizes its responsibility to address climate change and is committed to reducing its environmental impact. University conducts periodically the environmental audit report to assess the carbon emissions and the reduction in carbon emissions through its various efforts. GITAM has long been committed to promoting sustainability and environmental consciousness among its stakeholders.

To establish a solid foundation for carbon reduction initiatives, GITAM conducted a comprehensive greenhouse gas inventory to quantify its baseline emissions. This involved assessing both Scope 1 and Scope 2 emissions using globally accepted methodologies and reporting standards, such as the Greenhouse Gas Protocol.

1.1 Scope 1 Emissions:

Scope 1 emissions for GITAM were determined by identifying and measuring direct sources of greenhouse gas emissions originating from activities such as:

- Combustion of fossil fuels in on-campus facilities (e.g., boilers, generators)
- Emissions from university-owned vehicles
- GHG emissions from other onsite sources

1.2 Scope 2 Emissions:

Scope 2 emissions were assessed by analysing the consumption of purchased electricity, heat, and steam by the university. This also considered the indirect emissions associated with the energy purchased and consumed.

2 Carbon Reduction Targets:

GITAM has established the following carbon reduction targets to align with global climate goals and contribute to the broader efforts to mitigate climate change:

- Scope 1 Emissions: Reduce by 50% by 2030
- Scope 2 Emissions: Reduce by 30% by 2030

Strategies for Achieving the Targets:

GITAM has developed a comprehensive strategy to achieve the carbon reduction targets, integrating sustainability principles into its campus operations and community engagement. The strategies include, but are not limited to:

- Switch to renewable energy sources for electricity and heating.
- Install energy-efficient lighting and appliances.
- Improve energy efficiency in buildings.
- Purchase carbon offsets to compensate for emissions from purchased electricity.
- Improve energy efficiency in vehicles.

The carbon reduction targets will be implemented through a combination of policies, programs, and projects. These include:

- A new energy management policy that will require all buildings to achieve a minimum energy efficiency rating.
- A research and development program to support the development of new low-carbon technologies.

3 Renewable Energy Integration:

- Increasing the deployment of renewable energy sources (e.g., solar, wind) to power the campus and reduce reliance on fossil fuels.
- Exploring opportunities for setting up renewable energy generation facilities on campus.

4 Energy Efficiency Measures:

- Implementing energy-saving measures and technologies to optimize energy consumption in university buildings and facilities.
- Conducting energy audits and retrofitting buildings for improved energy efficiency.

5 Sustainable Mobility Initiatives:

- Promoting public transport, cycling, and carpooling among students, faculty, and staff to reduce transportation-related emissions.
- Transitioning the university-owned vehicle fleet to electric or low-emission vehicles.

6 Waste Management and Recycling:

- Enhancing waste management practices to minimise landfill waste and increase recycling rates on campus.
- Encouraging the adoption of sustainable practices among students and staff.

7 Awareness and Education:

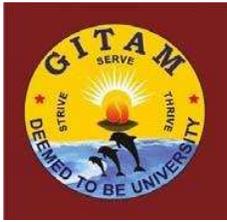
- Organising sustainability-focused campaigns, workshops, and seminars to raise awareness among the GITAM community about climate change and carbon reduction.
- Integrating sustainability education into the curriculum fosters a culture of environmental responsibility among students.

8 Monitoring and Reporting:

GITAM will regularly monitor its emissions and progress towards achieving the carbon reduction targets. Transparent reporting mechanisms will be established to communicate updates, successes, and challenges faced during the implementation process to all stakeholders. The carbon reduction targets will be monitored and reported annually. This will be done through a combination of self-reporting and third-party verification.

9 Conclusion:

GITAM is committed to reducing its carbon emissions and achieving net zero emissions by 2050. With implementing the policies, programs, and projects outlined in this report, GITAM is confident that it can meet its carbon reduction targets and play its part in addressing the climate crisis. By adopting renewable energy, enhancing energy efficiency, promoting sustainable mobility, and fostering a culture of sustainability, GITAM aims to be a leading example in climate action within the educational sector.



GITAM: GANDHI INSTITUTE OF TECHNOLOGY AND MANAGEMENT

(Deemed to be University u/s 3 of the UGC Act, 1956)

A Category - I Deemed to be University

Visakhapatnam | Hyderabad | Bengaluru

**The Policy for
Net Zero Commitment**

Contents

1	Introduction	1
2	Purpose	1
3	Commitment to Net Zero.....	1
3.1	Reduction Strategies	1
3.2	Energy Consumption Reduction.....	1
3.3	Building Improvements.....	2
3.4	Energy-Efficient Appliances	2
3.5	Conservation Promotion.....	2
4	Investment in Renewable Energy	2
4.1	Solar Panels.....	2
4.2	Wind Power.....	2
4.3	Additional Projects.....	2
5	Energy Efficiency Enhancement	2
5.1	Energy Audits	3
5.2	Insulation and Lighting Upgrades.....	3
5.3	Smart Metering.....	3
6	Reducing Reliance on Fossil Fuels.....	3
6.1	Promoting Sustainable Transportation	3
6.2	Emissions Offset	3
6.3	Carbon Credits	3
7	Conclusion	3

1 Introduction

The concept of "net zero" has emerged as a pivotal focal point in the global fight against climate change. This term denotes a state in which the greenhouse gases released into the Earth's atmosphere are meticulously counterbalanced by their removal, thus effectively halting the progression of global warming. The urgency of achieving net zero emissions, particularly concerning carbon dioxide (CO₂), cannot be overstated, as it represents the turning point at which we can curtail the devastating impacts of climate change.

The journey towards "net zero" encompasses a multifaceted approach, involving both the reduction of emissions and the escalation of removal efforts. Given the challenging timeline, it is evident that reaching absolute zero emissions in the foreseeable future will be a formidable task. Thus, the notion of "net" zero assumes significance, highlighting the imperative of sustained efforts to harmonize emissions and removals. In this pursuit, it is crucial to ensure the permanence of greenhouse gas removals, preventing their return to the atmosphere. As the global community rallies behind the goal of net zero, it is incumbent upon us to explore diverse strategies, alliances, and innovations to propel progress towards a more sustainable and climate-resilient future.

2 Purpose

This policy serves as a comprehensive framework outlining our mission to achieve net zero emissions by 2030. We understand the urgency of this mission in mitigating the adverse impacts of climate change and shaping a sustainable future. Through this policy, we articulate our commitment to responsible environmental practices and the principles that will guide us.

3 Commitment to Net Zero

3.1 Reduction Strategies

GITAM Deemed to be University's commitment to net zero emissions is underpinned by a multifaceted approach that encompasses various critical strategies.

3.2 Energy Consumption Reduction

Our energy consumption reduction strategy is multifaceted and ambitious, with a

target to decrease energy use by 30% by 2030.

3.3 Building Improvements

We will embark on a comprehensive program to enhance the energy efficiency of our buildings. This will include measures such as upgrading insulation, optimizing HVAC systems, and retrofitting with energy-efficient lighting.

3.4 Energy-Efficient Appliances

To drive down energy consumption, we will systematically replace outdated appliances and equipment with energy-efficient alternatives across our campuses.

3.5 Conservation Promotion

We are committed to fostering a culture of energy conservation among our community members. Awareness campaigns, training programs, and incentives for energy-saving behaviors will be implemented.

4 Investment in Renewable Energy

To reduce our reliance on fossil fuels and transition to clean and sustainable energy sources, we will actively invest in renewable energy.

4.1 Solar Panels

We will implement large-scale solar panel installations on our campuses, harnessing the power of sunlight to generate clean energy.

4.2 Wind Power

Exploring wind power projects to harness the energy of the wind and contribute to our renewable energy portfolio.

4.3 Additional Projects

GITAM will continue to explore and invest in innovative renewable energy initiatives that align with our sustainability objectives.

5 Energy Efficiency Enhancement

Our commitment to energy efficiency enhancement includes rigorous measures to optimize our energy consumption.

5.1 Energy Audits

Regular energy audits of our buildings will be conducted to identify inefficiencies and implement corrective measures.

5.2 Insulation and Lighting Upgrades

Comprehensive upgrades will be undertaken, including improving insulation and replacing conventional lighting systems with energy-efficient alternatives.

5.3 Smart Metering

We will deploy smart metering systems to monitor and analyze energy consumption in real-time. This data-driven approach will guide continuous improvements in energy efficiency.

6 Reducing Reliance on Fossil Fuels

GITAM is committed to reducing its dependence on fossil fuels.

6.1 Promoting Sustainable Transportation

We will actively promote sustainable transportation options, including public transportation, carpooling, and the use of electric or hybrid vehicles within our community.

6.2 Emissions Offset

Recognizing that achieving absolute zero emissions is a complex endeavor, we commit to offsetting any remaining emissions.

6.3 Carbon Credits

We will purchase carbon credits to compensate for emissions that cannot be eliminated through reduction measures. These credits will support projects focused on greenhouse gas reduction, such as reforestation initiatives and investments in renewable energy infrastructure.

7 Conclusion

The GITAM Net Zero Policy underscores our unwavering dedication to a sustainable future. This policy not only serves as a roadmap for our collective effort to reduce greenhouse gas emissions but also as a testament to our commitment to addressing climate change challenges. By prioritizing sustainability and responsible

environmental practices, GITAM Deemed to be University is determined to lead by example in fostering a climate-resilient and environmentally responsible future.

URL:

<https://www.gitam.edu/about/sustainabledevelopment>

