



SYMBIOSIS INTERNATIONAL (DEEMED UNIVERSITY)

(Established under section 3 of the UGC Act 1956)

Re-Accredited by NAAC with 'A++' Grade | Awarded Category - I by UGC

Founder: Prof. Dr. S. B. Mujumdar M.Sc. Ph.D. (Awarded Padma Bhushan and Padma Shri by President of India)

Symbiosis International (Deemed University) University

Report on Carbon Emission

(In line with GHG Protocol Corporate Standard)

Executive Summary:

This report outlines the carbon emission assessment conducted at Symbiosis International (Deemed University) in accordance with the GHG Protocol Corporate Standard. The purpose of this assessment was to measure the university's carbon footprint and identify areas for improvement to achieve carbon neutrality. The report covers Scope 1, Scope 2, and selected Scope 3 emissions.

Introduction:

Symbiosis International (Deemed University) recognizes the significance of environmental sustainability and is committed to mitigating its carbon footprint. The university conducted a comprehensive carbon emission assessment following the GHG Protocol Corporate Standard guidelines to monitor its emissions and work towards climate change mitigation.

Methodology:

1. Scope 1 Emissions:

Scope 1 emissions include direct emissions from sources owned or controlled by the university. Assumptions were made for the following sources:

- Gas Consumption: A total annual consumption of approximately 500,000 cubic meters, resulting in 3,500 metric tons of CO₂ emissions.
- University-Owned Vehicles: Considering an average annual mileage of university-owned vehicles to be approximately calculated as 300,000 km, resulting in 150 metric tons of CO₂ emissions.

2. Scope 2 Emissions:

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Scope 2 emissions include indirect emissions from purchased electricity. The university's annual electricity consumption resulting in 4,500 metric tons of CO₂ emissions based on the regional grid emission factor.

3. Scope 3 Emissions:

Scope 3 emissions cover other indirect emissions from activities outside the university's direct control for the following sources:

- Employee Commuting: Approximately 1,000 employees commuting an average of 15 km daily, resulting in 212 metric tons of CO₂ emissions.
- Solid Waste Disposal: Approximately 1,000 metric tons of solid waste generated annually, resulting in 502 metric tons of CO₂ emissions.

Results:

Based on the calculations, the total annual carbon emissions for Symbiosis International (Deemed University) are estimated as follows:

- Scope 1 Emissions: 3,650 metric tons of CO₂
- Scope 2 Emissions: 4,500 metric tons of CO₂
- Scope 3 Emissions: 714 metric tons of CO₂

Policy Measures Taken:

1. **Energy Efficiency Measures:** Implement energy-efficient technologies, such as LED lighting and smart building systems, to reduce electricity consumption and Scope 2 emissions. This is work in progress
2. **Renewable Energy:** Invest in renewable energy sources like solar panels to offset electricity consumption and reduce Scope 2 emissions. This is work in progress
3. **Public Transport Promotion:** Encourage the use of public transportation among staff and students to reduce Scope 3 emissions from employee commuting.
4. **Waste Management:** Enhance waste segregation and recycling programs to reduce Scope 3 emissions from solid waste disposal.



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Conclusion:

The carbon emission assessment provided valuable insights into Symbiosis International's (Deemed University) carbon footprint. By adopting the recommended measures and continuing to monitor emissions, the university will make significant strides toward achieving carbon neutrality and contributing to a sustainable future.

Dr. R Raman

Director – Strategy & Development