



**ENVIRONMENTAL & CIVIL
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Report on Total Scope 1, 2 and 3 Carbon Emissions in tCO₂e (tonnes (t) of carbon dioxide (CO₂) equivalent (e)

**Swami Vivekanand Subharti
University, Meerut - 250005**

Investing in
sustainability, is
investing in the
Future

Swami Vivekanand Subharti University is situated within the expansive and verdant landscape of Subhartipuram, encompassing approximately 250 acres of thoughtfully developed green campus. The University reflects a strong commitment to environmental stewardship, sustainable infrastructure, and holistic development, fostering an ecosystem that integrates academic excellence with responsible resource management and ecological balance



The Assessment

Reporting Boundary:

The reporting boundary For Swami Vivekanand Subharti University covers all academic, administrative, and residential Facilities within the campus. The assessment includes emissions From operations under the University's operational control, encompassing Scope 1, Scope 2, and relevant Scope 3 activities. Both direct and indirect emission sources associated with campus activities have been considered to ensure a comprehensive and transparent carbon Footprint evaluation.

Reporting Period:

The reporting period For this carbon Footprint assessment of Swami Vivekanand Subharti University covers the Financial year 2024–2025. All data related to energy consumption, Fuel usage, waste generation, water consumption, and transportation activities has been considered For this period to ensure consistency and accuracy in emissions estimation.

Carbon Inventory Approach:

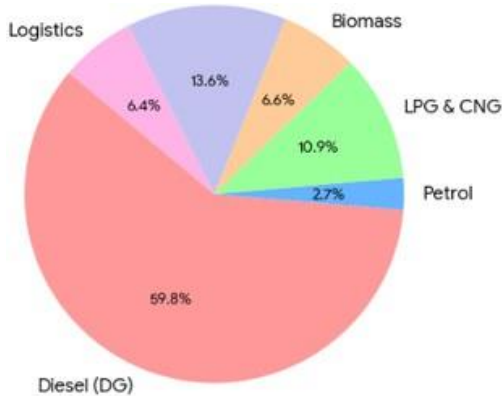
Carbon inventory involves identiFying emission sources and quantiFying associated greenhouse gas (GHG) emissions using internationally recognized methodologies. At the campus the greenhouse gas (GHG) inventory has been developed using international standards like GHG Protocol Corporate Accounting and Reporting Standard and ISO 14064-1:2018, guiding the quantiFication and reporting of greenhouse gas emissions at the organizational level.



Emission Factors:

Emission calculations have been carried out using recognized emission Factors derived From sources such as the Intergovernmental Panel on Climate Change (IPCC) and relevant national grid emission Factors For electricity consumption. All emissions are reported in carbon dioxide equivalent (CO₂e) to allow comparison across diFFerent greenhouse gases.

Results

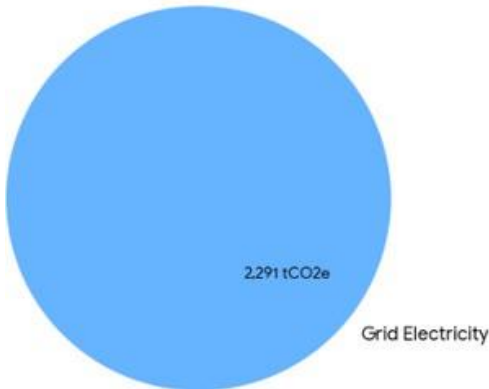


Distribution of Scope 1 Emissions

Scope 1: Direct Emissions

Scope 1 constitutes emissions released directly from operations owned or controlled by the Institution. At SVSU Meerut, Scope 1 is 184 tCO₂e, which includes emissions from diesel consumed for DG operations, refrigerants and fuel consumed by the Institute's student bus. Due to optimization of diesel consumption and refrigerants, a stark reduction of 35% was achieved as compared to baseline year data.

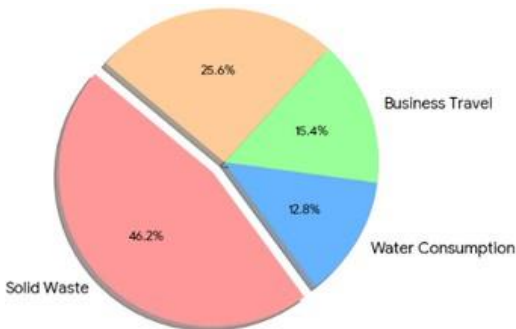
Scope 2 Emissions: Grid Electricity



Distribution of Scope 2 Emissions

Scope 2: Indirect Emissions

Scope 2 constitutes emissions from the generation of purchased electricity, steam, heating, or cooling consumed. At SVSU Meerut the Scope 2 is 2290 tCO₂e attributed to grid-based electricity consumption, showcasing an increase of 13.6%.



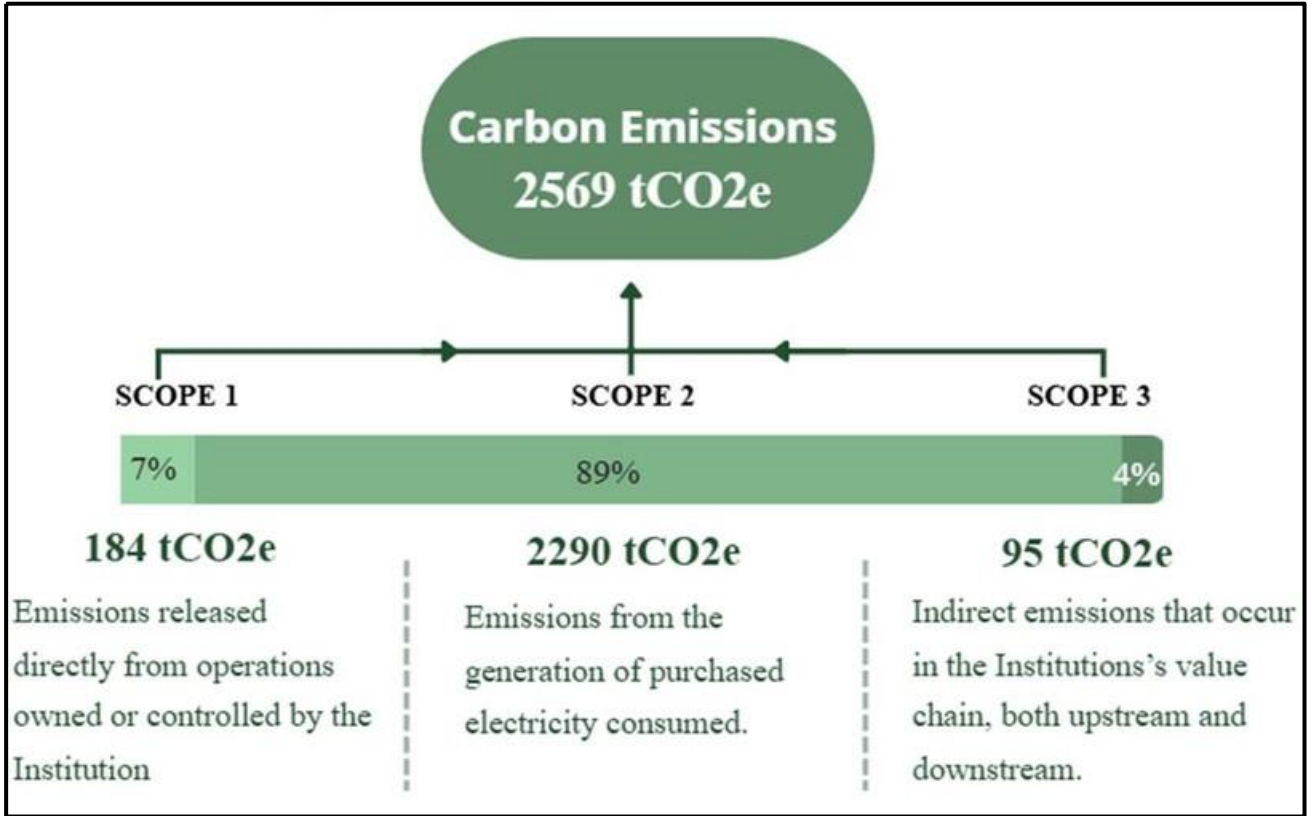
Distribution of Scope 3 Emissions

Scope 3: Other Indirect Emissions

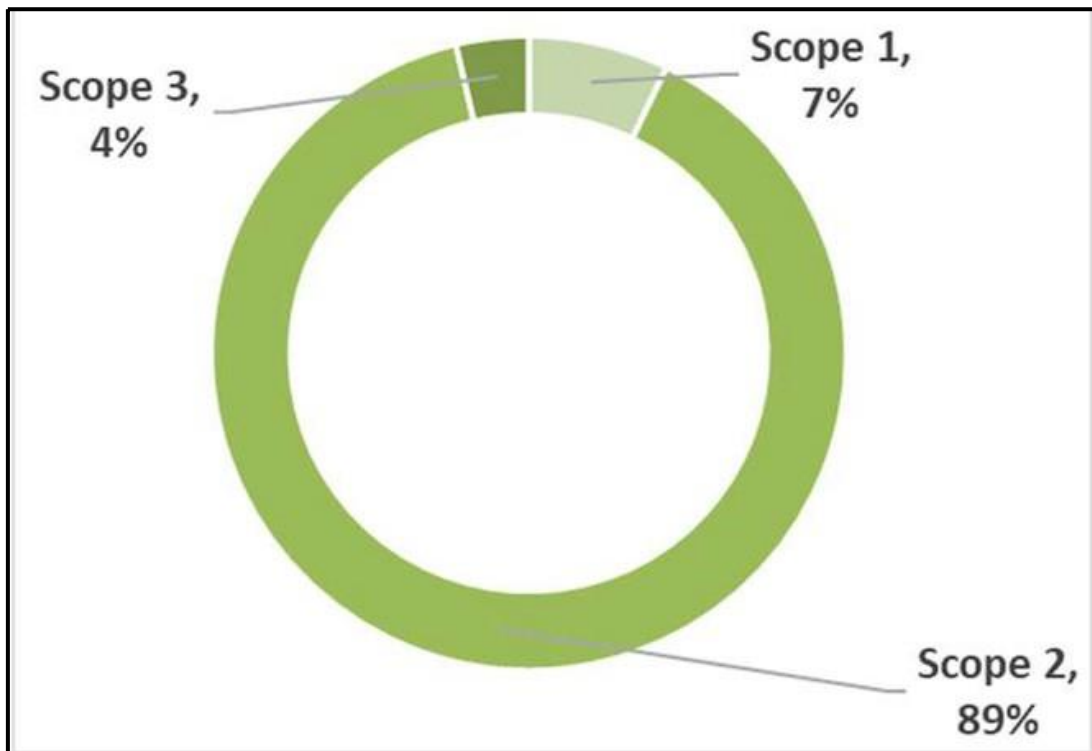
Scope 3 emissions are indirect emissions that occur in the Institute's value chain, both upstream and downstream, which are not included in Scope 2. At SVSU Meerut, Scope 3 emission is 95 tCO₂e, which includes solid waste, employee commute and business travel of faculty, staff and students for academic purposes. The significant optimization of travel through online interactions and interviews has enabled a significant reduction in scope 3 by 134%.

Results

Distribution of Scope 1 2 and 3 Emissions in tCO₂e



Percentage Distribution of Scope 1 2 and 3



Recommendations For SVSU

At SVSU, Merit the holistic approach of strong ESG practices across operations and academics makes it more impactful. Based on practices from Ivy Leagues, this section recommends initiatives that enhance the depth and build consistency in how these efforts are tracked, reviewed, and scaled. ECS recommendations are designed to be practical, phased and most importantly embedded into everyday decision-making.



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