

## Carbon Footprint Assessment Initiative and Trees: Role in Reducing Emissions

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**Abstract :** Carbon emissions are quantified in terms of carbon dioxide equivalents, generated through a specific activity or accumulated throughout the life stages of a product or service. Given the growing concern about climate change and the role of carbon dioxide emissions in global warming, this initiative aims to create awareness and understanding of the impact of human activities and identify potential areas for improvement regarding the management of the carbon footprint on campus. Given that trees play a vital role in reducing carbon emissions by absorbing CO<sub>2</sub> during the photosynthesis process, this paper evaluated the contribution of each tree to reducing those emissions. Collecting data over an extended period of time is essential to monitoring carbon dioxide levels. This will help capture changes at different times and identify any patterns or trends in the data. By linking the data to specific activities, events, or environmental factors, it is possible to identify sources of emissions and areas where carbon dioxide levels are rising. Analyzing the collected data can provide valuable insights into ways to reduce emissions and mitigate the impact of climate change.

**Keywords :** sustainability, green building, environmental impact, CO<sub>2</sub>

**Conference Title :** ICCEE 2024 : International Conference on Civil and Environmental Engineering

**Conference Location :** Montreal, Canada

**Conference Dates :** June 13-14, 2024