GHG Protocol Corporate Standard

Karunya Institute of Technology and Sciences reports its carbon emissions in alignment with the **GHG Protocol Corporate Standard**, which is one of the most widely accepted international frameworks for greenhouse gas accounting and reporting. This ensures that the reporting of emission details of the Institution is consistent, transparent, and comparable with global best practices.

The Institution follows a structured and comprehensive approach to carbon accounting by identifying, classifying, and quantifying greenhouse gas emissions across its operations. Emissions are categorized into **Scope 1** (direct emissions from owned or controlled sources such as institutional vehicles and on-campus fuel use) and **Scope 2** (indirect emissions from purchased electricity consumed across academic buildings, laboratories, hostels, and residential facilities). This classification aligns with internationally recognized reporting boundaries and enables accurate tracking of emission sources.

To ensure reliability and standardization, Karunya adopts approved emission factors and utilizes validated carbon calculation tools that are consistent with GHG Protocol methodologies. The data required for emission estimation such as energy consumption, fuel usage, and operational activity is systematically collected from various departments and consolidated for reporting. This data-driven approach supports precise measurement and minimizes discrepancies in reporting.

Furthermore, the Institution emphasizes continuous monitoring and periodic evaluation of its carbon footprint. The reported data is used not only for compliance and documentation but also as a strategic tool to identify high-emission areas and implement targeted mitigation measures. These include energy efficiency improvements, transition to renewable energy sources, adoption of sustainable transportation practices, and campus-wide awareness initiatives.

By adhering to the GHG Protocol Corporate Standard, Karunya demonstrates accountability in its environmental performance and reinforces its commitment to sustainability. The standardized reporting framework also enables benchmarking against other Institutions Globally and supports informed decision-making for long-term carbon reduction and climate action strategies.