Ref. No. : AUM/RO/1542 **Date: 27.07.2023**

Carbon Reduction Target Covering Scope 1 & 2 Emissions

By Year 2050

The Amity University Maharashtra has carbon emission reduction target covering scope1 and scope 2.

Carbon Reduction Target for Scope 1

The scope 1 which is direct greenhouse gas emissions that occur from sources owned or controlled by the University, such as burning fossil fuels on-site, process emissions, and emissions from owned vehicles. The university has the following strategies to reduce Scope 1 carbon emissions:

- **Energy Efficiency Improvements:** The university has a plan to Conduct an Energy Audit to identify areas where energy consumption can be reduced. The university Implement energy-efficient technologies and practices to optimize energy use in buildings, and equipment's.
- **Switch to Renewable Energy:** Utilize renewable energy sources such as solar and wind.
- **Adopting Low-Emission Technologies:** University has planned to identify and replace high-emission fuels with lower-emission alternatives. The university has decided to consider using cleaner fuels or biofuels instead of conventional fossil fuels. The use of electric vehicles and equipment to produce fewer emissions compared to traditional combustion engine vehicles and machinery.
- **Implementing Carbon Capture and Storage (CCS):** University is exploring the possibility of capturing and storing carbon dioxide emissions from the processes and power generation to prevent them from entering the atmosphere.
- **Maintenance and Upkeep:** University will continue to regularly maintain and optimize equipment and machinery to ensure they operate efficiently and minimizing emissions.
- **Process Optimization:** University has started Identifying emission-intensive processes and find ways to optimize or redesign them to reduce carbon emissions.
- **Waste Management:** University is already having the plans on the reduction on emissions associated with waste disposal by implementing sustainable waste management practices. The university segregates the wate, and performs the recycling, composting, or converting waste into energy.

- **Use of Sustainable Materials:** The university has decided to zero down the combustion of raw materials results in emissions, consider using more sustainable and eco-friendly alternatives.
- **Employee Awareness and Training:** The university has decided to educate all employees about the importance of reducing emissions and involve them in identifying opportunities for improvement. The best practices will be implemented in the university.
- **Setting Emission Reduction Targets:** The university has clearly established the ambitious emission reduction targets for Scope 1 emissions, and regularly monitoring the progress towards achieving those targets.
- **Carbon Offsetting:** In cases where complete elimination of Scope 1 emissions is challenging, consider investing in carbon offset projects to balance out the remaining emissions such as by tree plantation.

The university has decided to conduct a thorough assessment of various operations to identify the most effective and feasible emission reduction measures under scope 1. Additionally, setting long-term sustainability goals and integrating emission reduction into the overall university strategy can help drive meaningful change.

Carbon Reduction Target for Scope 2

The Amity University Maharashtra has the target to reduce the carbon emission happening under Scope 2, i.e., indirect emissions resulting from the consumption of purchased electricity, heat, or steam. The emissions generated off-site but are associated with a university operation. This target will contribute to the carbon neutrality and combating climate change. Following points comes under the university strategy to reduce the carbon emission.

- **Energy Efficiency and Conservation:** The university has decided to Improve energy efficiency within the campus organization by adopting energy-efficient technologies, optimizing processes, and upgrading to more efficient equipment. The university has also decided to reduce the overall energy consumption will directly lead to lower Scope 2 emissions.
- **Renewable Energy Procurement:** The university already using the solar panels to generate the electricity and having plan to more toward the transition to renewable energy sources to power operations. The university is also having plan to purchase electricity generated from renewable sources like solar, wind, hydro, or geothermal. The university has plan to use the green energy purchasing options.

- **Power Purchase Agreements (PPAs):** University has a plan to enter into long-term agreements with renewable energy producers through PPAs. The university is looking for the competitive prices and provide a stable, predictable supply of renewable electricity.
- **Carbon Offsetting**: The university has plan to invest in high-quality carbon offset projects that reduce or remove emissions equivalent to your Scope 2 emissions.
- **Energy Tracking and Reporting:** The university has plan to implement an energy tracking and reporting system to monitor your energy consumption accurately. The university will be regularly analysing the data to identify opportunities for further efficiency improvements.
- **Employee Engagement:** The university has the plan to Involve employees in sustainability efforts and encourage them to adopt energy-saving practices in the university campus, such as turning off lights and equipment when not in use.
- **Collaborate with Suppliers:** The university has plan to engage with suppliers to encourage them to reduce their emissions and switch to cleaner energy sources.
- **Certifications and Standards**: The university has plan to obtaining certifications like ISO 50001 (Energy Management) to help manage and reduce energy use effectively.
- **Invest in Battery Storage:** The university generate the renewables solar energy on-site and planning to invest in increasing the battery storage systems to store excess energy. This will ensure a stable supply of clean energy even during periods when renewable sources may not be producing at their peak.
- The university has decided to conduct a thorough assessment of various operations to identify the most effective and feasible emission reduction measures under scope 2. Additionally, setting long-term sustainability goals and integrating emission reduction into the overall university strategy can help drive meaningful change.

Authority Signature and Seal

Date: 27 July 2023.