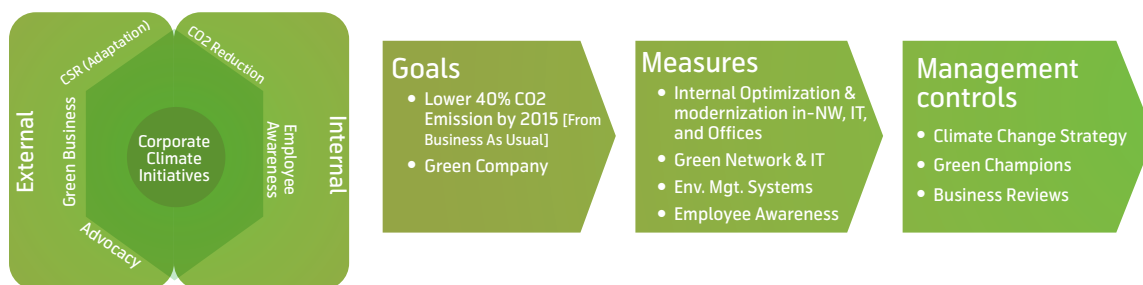


Climate Change & Green Endeavor for Green Business

Climate change has become an issue of intense importance for Bangladesh, as according to National Geographic, Bangladesh will remain the most vulnerable nation to the impacts of climate change in the coming decades. As a responsible corporate entity, Grameenphone's endeavor to become a Green company by "Building a Greener Network" was initiated back in 2007 to transform GP's Network and Office Building into environment friendly effective solutions, and to reduce carbon emissions by saving energy and fuel consumptions. To that end, GP unveiled a Climate Change Program in 2008 to gain sustainability and to help the community and people. GP has a specific environmental roadmap to help build a low-carbon society. The Company has also set a target to bring down carbon emission (CO₂) by 40% within 2015 and has taken a number of other initiatives to reduce its carbon footprint individually and collectively.



Green Initiatives:

a. Initiatives undertaken to reduce power consumption from Network

Network Modernization and Absolute Node Power Down Project

As Grameenphone (GP) Network is responsible for 90% of its overall energy consumption, the Company took a network modernization project to reduce its energy consumption by 50% from the network. GP has also done its absolute equipments power shutdown program after the swap which also saves a significant amount of energy and reduces CO₂ emissions.

Core Site Consolidation and Optimization Project

GP initiated a scheme named "NANO Project" to consolidate and optimize core locations throughout the country to reduce energy consumption and increase work efficiency.

Deployment of DC Ventilation

GP's another initiative is to dismantle the existing Air Conditioner systems and to install DC Ventilation Systems instead to regulate room temperature to an acceptable level. DC Ventilation System is also known as free cooling system. This unique system reduces the operating hour of the Air Conditioner units and hence electricity cost. The DVS proves extremely viable with prospects of saving 40%-50% of energy of the entire site and reducing huge CO₂ emissions.

Reduction in number of Generators and Generator Run Hours

By increasing battery backups, GP has reduced its generators' running hours significantly. GP has also offloaded a lot of generators from its existing network to save fuel consumptions.

Development of renewable energy through Solar Sites and Wind Turbines

In December 2007, GP deployed its first two Solar Sites in Ajmiriganj, Sylhet on an experimental basis. Currently GP has 165 Solar Sites, including 1 Humming Bird Solar Site (very small solar site; number of TRX is only 2) and 2 LCCS Solar Sites (Low Cost Coverage Solution; number of TRX is 4-6) and 1 Wind Turbine running on renewable energy.

b. Initiatives undertaken in the Head Office

GPHouse – A Green Workplace

GP's Head Office building, known as GPHouse, has a gas-based CoGen system, which helps the building save approximately 60% energy compared to the traditional building system. The building has a waste water treatment plant which is now saving up to 31% of the regular water consumption.

Implementation of Environmental Management System (EMS)

As per ISO 14001:2004 standards, GP established an Environmental Management System where proper disposal guidelines are being imposed, resources are being trained and certified, used batteries are being refurbished and recycled, e-waste management system is being engaged, and regular audits are being carried out to ensure energy conservation.

Transport Initiatives

To cover the full spectrum of GP's operations, a number of initiatives have been taken by GP's Transport team such as fleet management, CNG conversion, fleet optimization and pooling, fuel management, optimized route for shortest travel, sourcing fuel efficient vehicle, and awareness building about vehicle usage among the employees, etc.

Recycle, Reuse, Reduce, Dispose off Project

GP has signed agreements with local and foreign vendors to recycle its old telecom equipments. As a green company, GP is proud to be the pioneer in this type of recycling in Bangladesh by recycling not only its old network equipments but also the batteries. GP also has taken initiatives to dispose of its old IT equipments, power and electrical materials, scrap wastage materials and used lubricant left by generators.

c. Initiatives undertaken for underprivileged segments

Community Power Project

GP partnered with the University of Oslo to develop an advanced Community Power Project. A mini-grid has been developed in a remote village named Paharpur at the northeast of Bangladesh and around 136 households have been connected to this grid to get power from 5 pm to midnight. GP rolled out a Community Information Center in this off-grid region where computer, printer, scanner are running on solar power during daytime providing internet services.

d. Initiatives undertaken for awareness/conciousness purposes

Awareness Programs

GP always encourages and promotes various Employee awareness and engagement programs to enable the Employees to make a difference. A few such initiatives are: Promoting Renewable Energy through GP Sponsored ICDRET'12, Celebrating Earth Hour 2012, Sharing Knowledge with Young School Students, Sponsoring as a Co-Host the GSMA GPM Working Program for promoting Renewable Energy in Bangladesh, and Knowledge Based articles, etc.

Click Green – A Photography Competition

GP has successfully completed the third year of a photography competition which is launched every year on 5th June on "World Environment Day". The aim is to engage Employees, GP Facebook fans & journalists to act and reflect on what climate change means to them.

