Steps on Climate Change

Green Footprint with Green Business

Our Climate is changing very fast and affecting the earth with its adverse consequences. As a responsible business, GP launched its 'Climate Change Program' back in 2008 to gain sustainability and as well as to help people and community. GP has an environmental roadmap which aims to promote a low-carbon society, and GP's first priority is to take responsibility for the excess CO2 emissions generated by its own operations. GP has set a target of reducing 40% carbon emission (CO2) within 2015 from the business as usual situation considering 2008 as the baseline.

Goals
- Lower 40% CO2 Emission by 2015 [From Business As Usual]
- Green Company

Measures
- Internal Optimization & modernization in-NW, IT, and Offices
- Green Network & IT
- Env. Mgt. Systems
- Employee Awareness

Management controls
- Climate Change Strategy
- Green Champions
- Business Reviews

Climate Change Initiatives

Renewable Energy

We initiated renewable energy project back in 2007 to operate our off-grid sites with green energy in a business viable mode. At present we have 50 BTS sites running on solar. Work is in progress for installing solar in another 110 sites. Deployment of 50 Solar BTSs from 2007 to 2011 saved approximately 598 Thousand Litres of fuel which measures to over 1.5 Thousand Tons of CO2 reduction.

Network Modernization Project through BTS Swapping and Core Sites Consolidation & Optimization

GP took two projects, one is network modernization project which is to reduce its Network energy consumption by swapping of 7,272 BTSs with energy efficient modern equipments and another is to consolidate and optimize Core nodes from 40 to 20 along with to reduce locations from 22 to 9 throughout the country with an aim to reduce energy consumption and increase work efficiency. With these two initiatives, GP has saved till now approximately 48 GWh (Gigawatt hours) electricity and 83 thousand liters of fuel which is over 27 thousand tons of CO2 reduction. 50% energy consumption reduction in network sites has been possible from network modernization project.

Deployment of DC Ventilation by dismantling of AC's

Dismantling of existing cooling systems (AC's) is to reduce energy costs and energy consumptions and to install energy efficient free cooling System which is DC Ventilation Systems (DVS) by which an acceptable level temperature can be maintained in BTS room. Deploying of DC Ventillation System appears extremely viable with prospects of saving 40%-50% of total site's energy. So far, 6500 AC(s) have been dismantled and 6,670 DVS(s) have been installed and approximately 77 GWh electricity has been saved which is over 43 thousand tons of CO2 reduction.

Community Power Project

Grameenphone partnered with University of Oslo to develop an advanced Community Power Project. GP piloted this project in a remote village named Paharpur, under Hobigonj district in Sylhet Division, at the northeast of Bangladesh. A mini-grid has been developed and around 136 households are connected to this grid and getting power from 5 pm till midnight. The ultimate goal of the initiative is to develop business models that would promote a self-sustaining community power infrastructure. This also enables the roll-out of Community Information Center (CIC) in areas that would otherwise be inaccessible.

GPHouse – A Green Workplace

GPHouse has opened new doors to a new way of working. Space efficiency, energy efficiency, optimal usage of natural lighting, water treatment, and internal air treatment are some of the common terms associated with this building. Grameenphone has again pioneered its way in successfully deploying the first cogeneration system here at GPHouse. The system allows generation of own electricity and the use of by-product heat in absorption chiller for internal cooling of the building. The building is saving approx. 60% energy comparing to the traditional building system. The building has a waste water treatment plant which is saving up to 31% of the regular water consumption. Water savings has reached now 12 million Liters/Yr and the energy savings is approx. 11 GWh/Yr means over 6.1 thousand tons of CO2 reduction.