#### **Tikim Conferenvce**

**Abstract No:** Tikim Conferenvce – **101**

#### “Conference description Tikim”

#### 04th – 11th Mar 2013

**Abstract**

**[Energy is inevitable for development and its demand is increasing day by day. Energy is essential and important for human life. However, energy from fossil fuel (coals, diesel, kerosene, wood etc.) generates carbon, carbon dioxide emissions, green house emissions that pollute air, and destroy environment resulted global warming that’s harmful to living beings and nature. Hence energy scientists are looking for alternative energy resources uses that are environmentally friendly and good for human being. They are provoking for renewable energy (solar radiation energy, bio gas energy, wind energy, water wave energy, CNG energy and hydropower energy) use because PV technologies produce very small amount of CO2 compared to the emissions from conventional existing fossil fuel energy technologies. Therefore, renewable energy (RE) uses is less harmful to living beings and environment (air, water and land). This paper talks about fossil fuel energy and renewable energy use and their consequence and impact respectively in the nature and society. In the paper, the author incorporates his working experience with Grameen Shakti (GS) and the collected data from different RE implementing organizations in Bangladesh during his visit to Bangladesh in September 2014-April 2015.
The paper identifies different RE resources and different RE projects undertaken in the world particularly Bangladesh. The study explores RE resource utilization different business models, programs, and their benefits in Bangladesh. The study finds Bangladesh has developed a Government managed private apex organization named IDCOL (Infrastructure Development Company), which is involved in coordinating, counselling and financing to the RE implementing agencies in Bangladesh. The study discovers Grameen Shakti, a sister organization of Grameen Bank, is the largest RE implementing organization not only in Bangladesh, but also in the world. GS has developed a micro-utility RE financial model that has disseminated to the IDCOL partnered RE implementing agencies in Bangladesh. The RE implementing agencies apply the GS micro-utility financial model in their own programs in Bangladesh. However, RE resources like solar panels, biogas plants, wind pumps etc. are expensive for the low income people. The RE technologies need further improvement for to not only more handy at the micro level, but also valuable at the economic scale. ]**

**Final** Results and Recommendations**.**

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