

## **Seminar on Clean Tech**

**Topic:** Odisha -Opportunities in Clean Tech

**Venue:** Hotel Crown, Bhubaneswar

**Date:** 18<sup>th</sup> December 2011

**Time:** 11.30AM

**Members Present:**

1. Mr. Rajesh Roychoudhury
2. Ms. Pradipta Mohanty, SN Mining
3. Mr P.K. Mohan , CEO, Odisha Renewable Energy Agency, Bhubaneswar
4. Mr. K.G. Ganapathi, Technology Entrepreneur, Silicon Valley, USA
5. Mr. Pradipta Panigrahi, Director, Gayatri Solar, CEO, G-ON Control.
6. Dr. Gopal Nayak, Director, IIIT
7. Mr. K.Anbalagan, ProLEED, Dubai, UAE
8. Mr. Chadrasekhar Mishra

**Objective**

The major focus of the seminar was on Odisha opportunity in Clean Tech. Mr. Rajesh Roy Choudhury was the moderator of this event.

**Description:**

Mr. K. G. Ganapathi started his talk on “Solar Technologies and International adoption”. He gave the example of success of Mobile revolution in India. This revolution was successful in a short span due to its focus on limitations of existing landline technologies, like heavy cost of installation, sanction procedures, etc.

Peoples in rural and urban areas can take the benefit of Solar technologies. He said that technological resources are predominantly diverted to Software fields. So there is lack of technical resources for supplying the manufacturing components of solar devices.

Mr. Pradipta Mohanty presented a Case study in building a 1MW Solar Power Plant in Odisha”He spoke on Govt. emphasis on Renewable Energy, obligations on firms and new schemes initiated by Govt for Solar Energy. He said the need of Clean Technology is there due to hike in energy price, shortage of adequate resources and global environment problems like climate change and global warming. He highlighted four major clean technology sectors which are waste water (grey water) recycle and reuse, waste to energy (Municipal and Flue Gases), Green Building and Green Transportation and Renewable Energy like solar, wind , bio fuels, bio mass).He shared the mission of his company which is promoting adoption of renewable energy by using proven technologies, high quality engineering and professional installation practices. He also shared some of his observations and ideas on Solar system. He explained a brief profile of SNM Solar Plant and showed some devices that are used to capture the solar energy.

Mr. P.K. Mohan talked on the topic “Solar Energy Opportunities in Odisha” Firstly he gave a brief overview on OREDA. He discussed on the Renewable Purchase Obligation (RPO) and the actions taken by OREDA to achieve the RPO. He shared his observations on the opportunities available in Odisha. He said a plan is there to make investments of around Rs.60 crores in near future and setting up of solar plants. He said for this subsidy is given by the Government to investors, facility for marketing is very much required, the need of incubator and a kind of IT Park is there and also a commercial centre of 100 crores.

Mr. Pradipta Panigrahi spoke on “Experienceing the Solar Industry in Odisha. He said Odisha is going to become a Green Hub. He discussed some of the activities how they are promoting the green environment. He also shared some of his future plans.

Dr. Gopal Nayak discussed that interface between the industry and technical colleges. He said they are having a plan of associating with the hardware industry. He said completion among students to develop new innovations is very much required.

Mr. K.Anbalagan gave his talk on the topic “LEED Certification-the process, whys and why nots”. He described about having Green Building. He said Green Building conserves natural

resources as compared to a conventional building. He discussed on use of better building materials – insulated walls and ceilings, low heat emitting glazing, use of low flow water fixtures and aerators. use of CFLs instead of incandescent lamps, recycling of waste water, rain water harvesting, utilization of renewable energy – start of solar water heaters, conducting energy audits on existing buildings. He also described about the tangible benefits like reduced operating cost, energy savings up to 40%-50% , water saving up to 20%-30% and intangible benefits like reduced impact on the environment, enhance occupant health and comfort, improved productivity of occupants, that can be derived from Green Buildings. He shared some of recommendations based on his observations they are implementation of ECBC and adoption of central or state governments to adopt it as a mandatory standard similar to other mandatory Building Codes, conviction and commitment to implementation at all levels, need of mobility from administrators, and awareness for global marketing needs to save energy cost.

Mr. Chandrasekhar Mishra discussed about the need to promote manufacturing of solar equipments in Odisha. He suggested to tie-ups with foreign universities for R&D in Solar.

All the speakers were presented with a Memento by Dr. Arvind Padhee, Director Special Projects, Panchayati Raj Department, Govt. of Odisha.

The meeting ended with thanks to the Chair.