

**Title** - “Low carbon options ensuring energy security for India” - A Round Table Dialogue between CEOs of Renewable Energy Industry and Civil Society

**Concept** – Renewable energy is growing rapidly in India. With an installed capacity of 13.2 GW, renewable energy sources (excluding large hydro) currently account for 9% of India’s overall power generation capacity. By 2012, the Indian government is planning to add an extra 14 GW of renewable sources and by 2020, it would be in the region of around 40 GW which includes 20 GW of Solar based systems.

In terms of industry capabilities, India has a solid domestic manufacturing base. In the wind industry, Global leaders such as Suzlon, account for over half of the market along with Vestas Wind Tech and RRB. In addition, international companies have set up production facilities in India, including Enercon, Repower, Siemens and LM Glasfiber and the new entrants like ReGen Power Tech, WinWinD, Kenersys and Global Wind Power. Overall, a dozen companies now manufacture wind turbines in India, through either joint ventures, or under licensed production, as subsidiaries of foreign companies or as Indian companies with their own technology.

In the solar segment, the key players currently are Moser Baer, TATA BP Solar, along with a host of other key players and service providers with a wide range of solar consumer products in the market from solar water heaters to specific application products. Big players like Reliance are also entering into the Solar PV manufacturing segment.

In terms of renewable energy potentials, India has enough potential to meet all of its energy demands and more. In the Grid connected category, taking just the wind sector alone, the estimated potential by the Industry is upwards of 100 GW. Even very conservative estimates on the potentials for bio-mass is in the region of around 50 GW and the conservative potential for small micro and mini hydels is in the region of 35 GW. So, not taking solar into consideration, the potential for other renewable energy sources account to close to 185 GW of grid connected systems. The initial draft of the National Solar Mission had an ambitious target of achieving close to 100 GW of grid connected systems by 2050.