Green Jobs

Opportunities & Challenges for Bangladesh as a Developing Nation

PRESENTATION

by

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What Green Jobs are all about....???

World wide investments in environment-friendly technologies have resulted in creation of huge new jobs / Job opportunities whose dimensions are expanding:

1) To quote Mr. Juan Somavia, Head of the Geneva based International Labour Organization (ILO), while he outlined his organization’s plan for a new “Green Jobs Initiative”:

“Investments in Energy Efficiency (EE), Clean Energy Technology and in Renewable Energy (RE) have enormous potential to create productive and decent work.....” This is what we are referring as “Green Jobs”

[UN / ILO Conf. : September 2007]
Present & Future Potential of Green Jobs - Global & National

2) Wide scale dissemination of Clean Energy Initiatives, including Renewable Energy, Energy Efficient Technologies and recycling based and environment-friendly Waste Management are examples of not only the ‘Best Practices of Resource Management’, but have a significant positive impact on employment.

The above are the conclusions of 13 independent reports and Studies that analyze the economic and employment impacts of Clean Technologies often referred to as “Eco-efficient operations” - through use of RE, EE and/or environment-friendly interventions.
<table>
<thead>
<tr>
<th>Scenarios</th>
<th>Mix of Renewable Energy</th>
<th>Total Employment</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Scenario 1</td>
<td>85% Biomass, 14% Wind 1% Solar PV</td>
<td>163,669</td>
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<td>(RPS1)</td>
<td></td>
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<tr>
<td>2. Scenario 2</td>
<td>60% Biomass, 37% Wind 3% Solar PV</td>
<td>176,444</td>
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<td>(RPS2)</td>
<td></td>
<td></td>
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<tr>
<td>3. Scenario 3</td>
<td>40% Biomass, 55% Wind 5% Solar PV</td>
<td>188,018</td>
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<tr>
<td>4. Scenario 4</td>
<td>“Business-as-usual” Scenario</td>
<td></td>
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<tr>
<td></td>
<td>50% Coal + 50% Natural Gas</td>
<td>86,369</td>
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<tr>
<td>5. Scenario 5</td>
<td>20% Gas Intensive by 2020</td>
<td></td>
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<tr>
<td></td>
<td>100% natural gas</td>
<td>83,987</td>
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Notes: 1) RPS = Renewable Portfolio Standard  
2) Comparison of estimated Employment created by meeting 20% of current U.S. Electricity demand via and expansion of fossil or renewable-based
<table>
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<tr>
<th>RE / EE Technology Intervention</th>
<th>Present Employment</th>
<th>Pot. (2020) Green Jobs</th>
</tr>
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<tbody>
<tr>
<td>1. Solar PV - 180,000 Systems (Grameen Shakti) E-Component/Assembly etc.</td>
<td>2,500</td>
<td>10,000</td>
</tr>
<tr>
<td>2. Biogas Plants - 30,000 units fielded (Trained Engrs./Skills)</td>
<td>5,500</td>
<td>25,000</td>
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<tr>
<td>3. Improved Cook Stove (ICS) 60,000 units disseminated</td>
<td>1,000</td>
<td>20,000</td>
</tr>
<tr>
<td>4. Other Biomass (Rice Husk Power in Rice Mills &amp; Others)</td>
<td>-</td>
<td>20,000</td>
</tr>
<tr>
<td>5. Energy Efficient (EE) Technologies (CFL, FTL EE Retrofit Industry)</td>
<td>5,000</td>
<td>30,000</td>
</tr>
</tbody>
</table>

Green Jobs

>100,000
“Green Technology Vs Green Jobs” - Bangladesh Scenario
Required GoB Policy & Institutional Supports

- Incorporation of ‘Green Job’ Concept in relevant GoB Policies

- Capacity Building (Technology, Finance & Human Resource Development, i.e. Equipment / Know How / Training in Green Technologies) Examples:
  - Training in Solar (PV & Thermal), Bio-Gas/Bio-mass Technology Applications – Highly skilled, Skilled Semi-skilled (Specialized professionals/practitioners i.e. RE / Environmental Specialists, Energy Auditors Training (certified), Bio-gas Technicians & Masons EE Equipment assembly, EE Equipment Testing etc.

- Fiscal Incentives for Entrepreneurs who create Green Jobs
- Co-operation amongst GoB, ILO and Other International Development Partners (e.g. GTZ, USAID, UNDP etc.)
Thank you
“HAPPY GROWTH: Mr. CFL!!”......
“Addios Amigos...M/S Incandescent & Load-shedding !!!”

- 5000 MW
- 500,000 CFLs
- ACTUAL LOAD DEMAND
- TIME HORIZON - YEAR
- 4500 MW
- 10,000,000 CFLs
- NUMBER OF CFLS
- 500,000 CFLs
- 2007
- 2010

Addios
Amigos
…M/S Incandescent & Load-shedding !!!
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Cold Rolling
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- Processes > Steel Making

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