



Energy Technology Conclave

Technology Development for Energy Security

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Committed to Sustainable Energy Development

Carbon Intensive Energy Route

Current investment patterns are putting in place a carbon intensive energy infrastructure

with

Coal playing a dominant role, even in USA

Higher GHG Emissions

On the current trends and present policies, energy related carbon dioxide emissions could rise by more than 50 percent over 2005 levels by 2030

World Moving towards Unsustainable Trajectory

- Trillions of Dollars are projected to be spent between now and 2030 to meet energy demand
- This could lock the world on to an unsustainable trajectory

Enhanced R&D Needed

- 20th World Energy Congress reiterated the fact that 'fossil fuels will remain a main fixture of the world's energy supply for the next generation'
- More spending on research and development on new technologies is needed to deliver cleaner and alternative forms of energy and to boost energy efficiency.

Energy Supply at Competitive Prices

India is on a high growth rate trajectory and that requires extensive energy supply options to meet the energy demand of all sectors at competitive prices

Integrated Energy Policy

Expert Committee on Integrated Energy Policy has emphasized that in order to keep India competitive in global markets:

“The energy demand must be met through safe, clean and convenient forms of energy at the least cost in a technically efficient, economically viable and environmentally sustainable manner.”

Technology for Security

Considering the shocks and disruptions that can be reasonably expected, assured supply of such energy and technologies at all times is essential to providing energy security for all

Meeting the Vision

- Expand its energy resource base
- Seek new and emerging energy sources
- Pursue technologies that maximize energy efficiency, demand side management and conservation
- Focus on clean technologies.
- Urgent need to find place in this fast changing technological arena

Beyond 2015

- Government to assume a strong role in RD&D
- Government commitment and private sector participation and initiatives crucial for lowering energy intensity
- Higher standards for clean energy production to be the prime movers
- Innovative Framework for Agreement on setting a minimum value for carbon is critical

Seeking answers for actions

- Foster economic growth at 9% plus regime
- Fulfill energy needs of the common to support improving their living standards
- Protect and improve our environment
- Move beyond a petroleum dominated economy
- Develop and introduce clean energy technologies at a fast pace
- Reduce our dependence on foreign sources of energy
- Promote energy conservation
- Modernize energy infrastructure

Thrust Areas for Discussion at ETC

- Establish, by Act of Parliament, National Energy Fund (NEF) to plan and manage energy technology financing
- Promote private and public sector companies to create their own facilities by enhancing their expenditure on R&D through tax incentives
- Prepare a National Plan for Energy R&D and launch Coordinated Research and Development in all stages of the Innovation Chains to reach a targeted goal of expanding the present day technological efforts to a final stage

Thrust Areas for Discussion at ETC

- Identify where NEF could provide R&D funding in support of application, innovative new ideas, fundamental research etc to researchers in different institutions, universities, organizations and even individuals working independently
- Develop 'Centres of Excellence' in energy research in academic institutions, at all levels
- Identify, promote and develop new financing mechanisms like venture capital funds and other commercial resources aimed at promoting joint R&D Projects

Some More Thrust Areas

- Technology Development and Deployment to stop increase in GHG emissions and to manage climate change effects
- Active participation in International Technology Partnerships.
- Accelerate Public-Private Partnership

Focus of discussion at ETC

- Bringing the abundance of existing technologies closer to commercial deployment (clean technologies, end-use, renewables, FBR/Thorium, etc.)
- Identifying the challenges in bringing viable medium-term technologies forward (hydrogen and fuel cells, solar, etc)
- Offering a successful, cost-sharing structure for expensive exploratory research (i.e. fusion, gas hydrates, solar, etc.)
- Actualising the vision of the Integrated Energy policy on Research and development

Expected Outcome of ETC

A Blue Print of Action Plan to facilitate development of a roadmap aimed at achieving the identified objectives of the ETC and Integrated Energy Policy.

Inputs Requested from the Invited Speakers and Participants

Views on Thrust Areas identified for discussion and institutional mechanism for setting up the umbrella organisation for promotion of energy technology development