



## **Sustainable growth and clean energy centerpieces of co-operation: Dr Moniz**

*The Summit reflected the vision of Hon'ble Prime Minister of India, Mr Narendra Modi: "Chalein Saath Saath: Forward Together We Go"*

**New Delhi/Washington, DC, September 21, 2015:** Sustainable growth and clean energy are centerpieces of cooperation between India and the United States during the current dialogue between the two nations here, **Dr Ernest Moniz**, United States Secretary of Energy said in his keynote address at the Valedictory session at the sixth US-India Energy Partnership Summit organized by TERI North America.

Dr Moniz gave an insight into the energy dialogue that took place today with Mr Piyush Goyal, Hon'ble Minister of State with Independent Charge for Power, Coal and New & Renewable Energy, Government of India, which he described as "energetic." He said that energy efficiency played a major role in the dialogue as 70 percent of all building and appliances anticipated by 2030 for India have yet to be built or manufactured in India, ensuring their energy efficiency will make a substantial contribution to the environment.

The Summit held on the same day as the bilateral energy talks between the two nations, emphasized on expanding the use of renewable energy and improving energy efficiency, clean coal technology and accelerating clean energy finance.

Moniz praised Goyal's commitment to clean energy and to making power available to millions and called him a "man in a hurry." The US and India working together is making both countries advance in their quest for clean energy, he said.

Eight areas of cooperation, ranging from energy smart cities and space cooling technology to heavy vehicle fuel efficiency and energy research were the focus of the bilateral cooperation, he said. In particular he mentioned SERIUS – Solar Energy Research India-U.S. – a programme to develop clean energy projects that can be used globally, beyond the two countries.

**Mr Tarun Kapoor**, Joint Secretary, Ministry of New and Renewable Energy, Govt of India reaffirmed India's commitment to a clean energy future while extending the power grid to the entire Indian population. He said the Ministry followed the twin goals of promoting energy efficiency and

expanding renewable energy following the ambitious goals set by the Prime Minister, Mr Narendra Modi. India had a goal of having 100 gigawatts of renewable energy goal and it needs to look at how manage grid. He added that rooftop solar panels program is just taking off now.

**Ms Anita Marangoly George**, Senior Director, Energy & Extractives at The World Bank said, “We need energy, but not at the cost of the air we breathe and the climate for our children going forward.” Therefore, India has to balance the twin goals of bringing power to its millions while ensuring it is environmentally clean. The World Bank was committing US\$1 billion for solar energy, she said.

**Mr Gaurang Pandya**, President of India Operations, UTC Building and Industrial Systems, Inc. stressed the importance of energy efficiency for India and said United Technologies had set up a Center for Excellence with TERI that was carrying out research into building efficiency. Explaining how energy efficiency extended to other areas, he said that it also impacted food security because there were 30 to 40 percent losses in foodstuff and this leads to energy loss from the energy that is wasted in producing them.

Earlier, the Summit hosted three thematic track meetings -- *Improving the Efficiency of Energy Use; Renewable Energy & Financing Clean Energy; and Carbon Capture, Commoditization and Utilization.*

Speaking at the session on *Improving the Efficiency of Energy Use*, **Mr William Sisson**, Director of Sustainability, United Technologies Corporation, said, “We have a responsibility to continue to innovate and develop technologies to lead to a more sustainable development. That’s why we are champions of the green building movement.”

At the *Renewable Energy and Financing Clean Energy*, **Mr Robert Ichord**, Deputy Assistant Secretary, Bureau of Energy Resources, US Department of State, said that renewable energy growth is tied to increased energy efficiency in transmission and distribution and in handling peak loads.

**Mr Pranav Mehta**, Chairman of National Solar Energy Foundation of India, highlighted Green Bonds as a significant opportunity to finance renewable and clean energy projects. It is also a new financial instrument which needs to be promoted more in India.

A High Level Corporate Dialogue brought together leaders from industry as well as government and academia to discuss the role of business in sustainable development and furthering the energy partnership between the two countries.

**Dr Veerabhadran Ramanathan**, Chair of the Carbon Neutrality Initiative at the University of California and UNESCO Professor at TERI University, said that intergenerational equity demands reducing carbon emission by 50 percent and to zero by 2080 and this will only cost \$450 for each of the one billion people at the top of the economic ladder. Dr Ramanathan, who was a pioneer in calculating the impact of greenhouse gases on global warming and had advised California

government on reducing their emissions, said that the state had lessons for India in cutting carbon emissions while the population and the economy grows.

NRDC International Program Director, **Mr Jake Schmidt** also said that a large number of jobs can be created in India through green energy technologies.

**Mr Raymond Vickery**, Senior Adviser, Albright Stonebridge Group, said the role of governments has diminished and private-public cooperation is essential for advancing clean energy.

**Mr Anil Kakani**, Executive Director of Cross Border Initiatives, Anand Rathi Financial Services said that American technologies have much to contribute to clean and renewable energy projects and have to get access to Indian markets to help reach the goals in these areas.

Earlier at the inauguration of the Summit, **Mr Amos Hochstein**, Special Envoy and Coordinator for International Energy Affairs, Bureau of Energy Resources, US Department of State said India is well-suited to lead “the energy transformation to a clean and renewable energy future. It is not just about lowering greenhouse gas emissions, ‘but rather about access’, he said. “How do you create transformation in a society, in a country, when you look at both the on and off grid – broad spectrum of all things that need energy when it comes to India - because the size and diversity of India requires us to look at the full range of options.”

In its endeavor to attain a clean energy future, Mr Hochstein said that the US is the “best partner” that India can have, given the shared experience of being federal democracies and the innovations, especially in the financial sector that the US is leading.

**Dr Annapurna Vancheswaran**, Vice President, TERI NA, said in her welcome address, “While TERI NA completes 25 years of contribution as the intellectual bridge between our two countries, the United States and India, the annual US India Energy Partnership Summit, has endeavored and contributed immensely towards developing long-term partnerships and collaborative programmes aimed at fostering stronger ties between our two nations, particularly in the area of energy, environment and sustainable development.”

Among the sponsors of the Summit were United Technologies and Jupiter Oxygen. **Mr William Sisson**, Director, Sustainability at United Technologies Corporation, said that his company became a sponsor for the event because it wanted to encourage the private sector in helping find solutions to the problems India faced. “We have to get every solution right for the future,” he said.

**Mr Thomas Weber**, President, Jupiter Oxygen Corporation said that his company wanted to educate businesses and the government about the importance of carbon capture and its utilization. This can play an important role in cleaning up the environment, but its importance was not recognized as it was looked at as a method for disposing waste rather than seeing possibilities in using it at the same time as a source of energy, he added.

Speakers at the Summit sessions included Dr Charles Ebinger, Senior Fellow, The Brookings Institute; Prof Veerabhadran Ramanathan, Victor Alderson Professor, University of California and Mr Uwe S Brandes, Executive Director- Master's Program in Urban & Regional Planning, Georgetown University.

## **SUMMIT BACKGROUND**

The year 2015 marks the setting of the Sustainable Development Goals (SDGs) by the United Nations General Assembly for the global community as a whole. The 21st Conference of Parties (CoP) under the UN Framework Convention on Climate Change is scheduled to be held in Paris towards the end of 2015, and it is expected that a global agreement on climate change would be finalized in this CoP. In this regard, the 6th United States–India Energy Partnership Summit platform would, therefore, provide a unique platform to help lay out strategies for the future. The 6th edition of the US–India Energy Partnership Summit will highlight the collective achievements that have been a result of this bilateral association and attempt to chart the roadmap for future collaborations.

## **ABOUT TERI NORTH AMERICA**

TERI North America is a publically supported, not-for-profit research organization based in Washington, DC, as an initiative of TERI, India. TERI NA's genesis is rooted in the realization that emerging global concerns about energy, environment and sustainable development must bring together new partnerships between the developing and the developed world.

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