



TERI and UTC set up Center of Excellence to Focus on Energy Efficient Buildings in India

Washington, DC, October 1, 2014: The Energy and Resources Institute (TERI) and United Technologies Corp (UTC) today announced the formation of the United Technologies -TERI Center of Excellence on Energy Efficient Buildings in India's Cities. The newly-created Center of Excellence will address energy diagnostics and evaluation of energy efficiency in existing buildings in India.

While TERI will evaluate and enhance energy efficiency in existing buildings in India, the initiative has been made possible by UTC.

Dr R K Pachauri, President TERI North America and Director General, TERI, said: "Buildings are a source of emissions of various gases and pollutants, and directly as well as indirectly, they account for about 19 per cent of greenhouse gases globally. Today we have knowledge and experience with technologies and techniques by which emissions can be reduced appreciably without compromising on comfort and convenience for users of buildings. For India higher energy efficiency in buildings is also essential for ensuring energy security for the nation. This MoU between a leading global research institute, TERI, and a company like UTC, known for its outstanding innovative capabilities, would help India move in the direction of efficient use of energy resources and protection of the environment."

Dr J Michael McQuade, SVP Science and Technology, UTC: "United Technologies is committed to supporting TERI in its mission to improve energy efficiency in India's buildings. Our experience in markets around the world demonstrates the need for increasing the effectiveness and awareness on buildings energy performance. With India's expected urban expansion over the next 20 years, it's imperative that we make India's existing and future buildings more energy efficient. UTC's contribution to

create this new Center of Excellence is a major step forward in supporting that mission.”

The United Technologies -TERI Center of Excellence on Energy Efficient Buildings in India’s Cities will work to address the following:

- **Development** of energy use reporting framework for the existing building sector;
- **Evaluation** of the existing building energy rating systems;
- **Derivation** of tool and techniques for energy management, real time reporting of energy consumption, and identification and cost benefit analysis of energy conservation measures;
- **Development** of Measurement and Verification (M&V) protocol for establishing the energy saving potential of various energy conservation measures;
- **Formulation** of design and retrofit guidelines that could be suggested as an addendum to relevant codes and standards; and,
- **Development** of supportive standards and regulation that will enable market uptake of energy efficient technologies.

The announcement of the United Technologies -TERI Center of Excellence on Energy Efficient Buildings in India’s Cities was made at the Fifth US-India Energy Partnership Summit, a multi-stakeholder platform to address US-India collaboration on energy access, efficiency, security and technology. The Summit deliberated on 'Accelerating Resilient Growth and Development' and participants addressed various issues related to green buildings and energy efficiency. Globally, buildings account for 40 per cent of the total energy consumption and have the potential of reducing energy consumption by up to 60 per cent using energy efficient technologies. In India, the building sector accounts for approximately 35 per cent of the total energy consumption and is growing at a rate of 8 per cent annually. In the US, the contribution of the building sector is around 40 per cent of the total energy consumption.

The establishment of the United Technologies -TERI Center of Excellence on Energy Efficient Buildings in India’s Cities come at a critical time for the building industry. Says **Zubin Irani**, President, Building & Industrial Systems, UTC India: “While typically there is a lot of focus on new buildings being energy efficient, there is a large stock of existing buildings in India

that waste energy. Our experience and audits indicate energy savings opportunities of 20-40 per cent across most buildings, making the payback to the end-user very attractive. We are excited about this strategic partnership with TERI and are hopeful that the Center of Excellence will help in baselining the energy performance of buildings in India with a solid roadmap to make them more energy-efficient.”

ABOUT TERI

The Energy and Resources Institute (TERI) is an independent, not-for-profit research organization deeply committed to every aspect of energy, environment, and sustainable development. From providing environment-friendly solutions to rural energy problems, to helping shape the development of the Indian oil and gas sector; from tackling global climate change issues across many continents to enhancing forest conservation efforts among local communities; from advancing solutions to growing urban transportation and air pollution problems to promoting energy efficiency in Indian industries, the emphasis has always been on finding innovative solutions to make the world a better place to live in. All activities at TERI move from formulating local and national-level strategies to suggesting global solutions tackling critical energy and environment related issues.

Headed by Dr. R.K. Pachauri, also the chairperson of the Nobel Peace Prize winning climate change body, IPCC, TERI has emerged as an institution of excellence for its path-breaking research, and is a global brand widely respected by political leaders, policy makers, corporate entities as well as the civil society at large.

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