



Energy measures: NPC initiatives

PAT Project

The major initiatives of the National Productivity Council (NPC), India, in the area of energy management are establishing baseline energy consumption for 10 energy-intensive sectors and their designated consumers, as notified under the Energy Conservation Act, 2001, comprising about 100 units nationwide. The task is performed under the National Mission for Enhanced Energy Efficiency to improve energy efficiency in energy-intensive industries and facilitate more cost-effective energy saving through Perform, Achieve, and Trade (PAT), a market-based mechanism to certify energy savings that could be traded. Those designated consumers account for 25% of national GDP and about 45% of commercial energy use in India. Energy savings of 6.686 million tons/year are expected at the end of the first phase of the PAT cycle (2012–2015).

Restructured Accelerated Power Development and Reforms Program

During the past year, the NPC has also continued an energy accounting project with a third-party independent evaluation agency under the Restructured Accelerated Power Development and Reforms Program of the Government of India in three states. The objective is to document the baseline aggregate technical and commercial losses of state power distribution companies and reduce the losses to 15%.

Productivity promotion and demonstration through training and consultancy in energy management

The Energy Management Group (EMG) of the NPC has carried out numerous national- and unit-level interventions in energy-intensive sectors. For example, the EMG performs technology

assessments of boilers to develop minimum energy performance standards under the Collaborative Labeling and Appliance Standards Program. It also conducted an energy efficiency and environmental impact assessment study on behalf of the Institute for Industrial Productivity which will facilitate greening of the supply chain of furniture giant Ikea after vendors adopt a low-carbon growth path. Under the sponsorship of the Shri Shakti Energy Foundation, the EMG created the Assessment to Action toolkit for the Indian ammonia-based fertilizer industry for energy-efficiency assessment. Numerous regional and national workshops and training programs in energy efficiency were conducted by the EMG, including training of executives in the power generation and distribution sector to improve station heat rates, reduce auxiliary power consumption, and decrease power distribution sector aggregate technical and commercial loss.

New initiatives through a collaborative approach

The EMG of the NPC has entered into strategic alliances and partnerships, formed a consortium for bid submissions, and signed memoranda of understanding (MOU) to strengthen its services to the public and private sectors for mutual benefit. Key collaborative initiatives are: 1) an MOU for implementing the Asian Development Bank's energy efficiency projects in Bangladesh to reduce the carbon footprint of five target sectors; 2) partnership with the UNDP on energy-efficiency audits and technologies for steel rerolling mills; 3) strategic alliance with the Consortium of International Consultants for an energy-efficiency improvement program in Nepal supported by the Deutsche Gesellschaft für Internationale Zusammenarbeit; and 4) agreements with public-sector undertakings in India for energy audits and performance evaluation studies. *Contributed by NPC.* 