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# UTPRERAK

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**Why is in news?** Power ministry establishes UTPRERAK, a Centre of Excellence to Accelerate Adoption of Energy Efficient Technologies in Indian Industry

The Ministry of Power, Government of India has set up a **dedicated Centre of Excellence to accelerate industry adoption of clean technologies** and thus scale up India's contribution to the global energy transition.

Named UTPRERAK, short for **Unnat Takniki Pradarshan Kendra**, the Centre of Excellence to **Accelerate Adoption of Energy Efficient Technologies** seeks to play a catalytic role in improving energy efficiency of Indian industry.

The Centre, named otherwise as **Advanced Industrial Technology Demonstration Centre (AITDC)**, has been set up by the Bureau of Energy efficiency (BEE), Ministry of Power, **at the Badarpur, New Delhi campus** of the National Power Training Institute (NPTI), Ministry of Power.

The Centre is mandated to become the **key reference and resource institution on industrial energy-efficient technologies**.

It will act as an **exhibition cum information centre** and knowledge repository. It will be a **knowledge exchange platform**, where best practices from across various key sectors could be diffused among industry professionals through workshops and seminars.

UTPRERAK will also **serve as a strategic capacity-building institution** and seeks to be a **one-stop solution provider for energy professionals** from across India for trainings and education in energy efficiency.

It is expected to provide **intensive training to more than 10,000 energy professionals** from the industry and other potential sectors over the next five years.

Besides these, the Centre envisages to also provide key inputs for national energy policy formulation, link education and research in energy-efficient solutions, and develop innovative applied solutions for energy efficiency.

## Other highlights:

Inaugurating the **Unnat Takniki Pradarshan Kendra**, the Union Minister of State for Power underlined the necessity of adoption of advanced technologies in order to help realize the Prime Minister's dream of making India a developed nation by the year 2047.

Noting that the government has **introduced Production Linked Incentive Schemes** in various sectors for this very purpose, the Minister said that the latest technologies are necessary for us to progress and to compete in the global market.

"There is a **need to manufacture good technology at low cost**. UTPRERAK will play an important role in improving energy efficiency of Indian industry; moreover, saving energy will help not just industry, but the nation as well."

**Kamaraj IAS Academy**

Plot A P.127, AF block, 6 th street, 11th Main Rd, Shanthi Colony, Anna Nagar, Chennai, Tamil Nadu 600040

Phone: **044 4353 9988 / 98403 94477 / Whatsapp : 09710729833**

The highlighted the crucial role which **energy-intensive technologies** need to **play in meeting India's greenhouse gas emission reduction commitments** under Nationally Determined Contributions (NDCs).

“At **COP 26 in Glasgow**, the Prime Minister of India announced **updated NDCs for India**, one of which is **cutting down India's carbon dioxide emissions by 1 billion tons during the period 2020 – 2030**. About **half of this will come from deeper penetration of renewable energy**, while the remaining **half will come from energy-efficiency measures**.

The **flagship Perform, Achieve and Trade (PAT) programme** of BEE has been commended all over the world.

In the initial cycles of PAT programme, energy efficiency margins were squeezed by better maintenance practices. Going forward, we need to introduce new technologies in our industries, which are **highly energy-intensive, in sectors** such as Iron & Steel, Cement, Paper, Chlor-Alkali and Textiles.”

The Power Secretary said that the Centre should play a key role in helping the industry meet emission intensity reduction targets.

“**India is going to roll out Indian carbon market very soon**, the thought is that we will give emission intensity reduction targets to the industry. To enable them to achieve these targets, we need to promote and handhold our industries in the adoption of these new technologies. UTPRERAK is to be seen in the context of this big endeavour.”

The centre consists of three demo halls for demonstration of technologies for five PAT sectors to begin with, namely **Iron & Steel, Cement, Paper, Chlor-Alkali and Textiles**.

Under the guidance of BEE, the Centre will **undertake collaboration and technology transfer on advanced technologies with institutes** across the world.

**BEE would collaborate with various research institutions** such as Indian Institutes of Technology (IITs), National Council for Cement and Building Materials (NCCBM), Central Pulp & Paper Research Institute (CPPRI), National Institute of Secondary Steel Technology (NISST), Jawaharlal Nehru Aluminium Research Development and Design Centre (JNARDDC), South India Textile Research Association (SITRA) and Northern India Textile Research Association (NITRA), etc., for **carrying out research activities at the centre**, which could in turn be **demonstrated in plants after successful completion of R&D projects**.

The Centre will also **operate as a Regional Hub for conducting Research and Development activities for clean energy technologies** in identified sectors (other energy-intensive sectors will be included subsequently).

Emerging technologies such as **Carbon Capture, Usage and Storage (CCUS)** can be developed for the **decarbonization** of these sectors. When fully functional, it will have state-of-the-art facilities for networking, conferencing, training, and information dissemination on energy-efficient technologies.