

UPSavesEnergy News Letter

UPSDA's Energy Efficiency endeavors towards achieving a Net Zero status for Uttar Pradesh

Quarterly Newsletter

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Background

Uttar Pradesh New and Renewable Development Agency (UPNEDA) under the provisions of the Energy Conservation Act-2001, have been nominated as State Designated Agency to coordinate, regulate and enforce the provision of the Energy Conservation Act-2001 and implement schemes under the said Act within the State of Uttar Pradesh. UPNEDA is working as UPSDA since July 2015.

Uttar Pradesh is recognized as the growth engine of India and contributes substantially in the economy of the country. The economy of Uttar Pradesh is growing at a fast rate. Industrial development is also growing fast resulting in a rapid increase in energy consumption. During the Uttar Pradesh Global Investors Summit 2023, organized in

February 2023, many industrialists planned for industrial activities in various sectors and in various zones of Uttar Pradesh. An increase in industrial activities and increasing building infrastructure will result in increasing energy consumption. To meet the growing demand for electricity either we have to install new power plants or use energy efficiency measures and focus on the use of renewable energy.



Vision :

To make a long-term commitment to energy efficiency and conservation through harnessing the vast energy saving potential in Uttar Pradesh by exploring all possible pathways for minimizing overall carbon footprints.



Mission :

The mission of the UPNEDA as State Designated Agency is to assist in developing policies and strategies with a thrust on self-regulation and market principles, within the overall framework of the Energy Conservation Act, 2001 with the primary objective of reducing energy intensity of the Indian Economy



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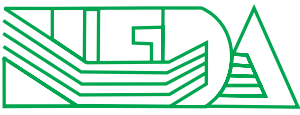
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Significant Energy Efficiency Programs in Uttar Pradesh

Uttar Pradesh has implemented several notable energy efficiency programs and policies. These projects have resulted in reduced energy consumption, lowered greenhouse gas emissions, and improved energy affordability for citizens.

UPSDA has started various capacity-building programs to encourage energy conservation in various sectors. Some of the programs organized during 4th Quarter (January to March) of 2022-23 are:

Regional Meet of SDAs at Varanasi on 24-25 February 2023:

On February 24-25, 2023, a regional meeting was convened in Varanasi, hosted by the Uttar Pradesh New and Renewable Energy Development Agency (UPNEDA) on behalf of



Regional Meeting in Varanasi

the Bureau of Energy Efficiency (BEE). The meeting brought together SDAs from various states, including Bihar, Chandigarh, Delhi, Haryana, Himachal Pradesh, Jammu & Kashmir, Ladakh, Punjab, Uttarakhand, and Uttar Pradesh. The primary objective of the meeting was to review the financial progress of the SDAs in the respective regions. The gathering provided a valuable platform for sharing experiences, discussing challenges, and

identifying opportunities for further growth in the field of sustainable energy initiatives.

Investment Bazaar:

Uttar Pradesh New & Renewable Energy Development Agency (UPNEDA), in collaboration with BEE, successfully organized three one-day conferences on "Investment Bazaar for Energy Efficiency" in the following cities: - Varanasi – on 8th February, Agra – on 13th March, and Ghaziabad - 15th March.

The event aimed to raise awareness among industry stakeholders about various financing schemes, energy-efficient products/services, and ESCO implementation for energy-efficiency projects. It provided a platform for OEMs, ESCOs, Financial Institutions, and Industries to interact and explore investment opportunities and financial potential.

The event attracted over 180 distinguished guests from diverse backgrounds,



including DCs, Industries, Financial Institutions, ESCOs, MSMEs, and OEMs. OEMs and FIs displayed EE technologies and financing schemes at stalls. A total of 15 bankable projects with an investment potential of over Rs. 1234 Lakhs were showcased across all three events.



Investment Bazaar for Energy Efficiency



Municipal Demand Side Management Programme :

Uttar Pradesh New and Renewable Energy Development Agency, in association with the Bureau of Energy Efficiency successfully organized a series of Conferences on 'Energy Conservation and Demand Side Management in Municipal Sector' during the month of March, witnessed active participation from officials representing various departments, including Jal Nigam, Jal Kal Vibhag, Power Department, and Nagar Nigam, among others. The conferences were held in different municipalities across Uttar Pradesh, focusing on raising awareness and promoting energy conservation practices in the municipal sector. During March 2023 training programs were organized in 4 Municipalities (Ghaziabad, Ayodhya, Gorakhpur, and Kanpur). A total of 175 participants graced the event, displaying a collective commitment to fostering sustainable energy practices in Uttar Pradesh's municipalities. The diversity of attendees further enhanced the exchange of ideas and best practices during the conference.



Retailers Training Programme :

Uttar Pradesh New and Renewable Energy Development Agency in association with the Bureau of Energy Efficiency (Ministry of Power, Govt. of India) targeted to organize Training Workshop on "Energy Conservation and Standards & Labelling Program for Retailers" in 20 cities of Uttar Pradesh. During 4th quarter 19 RTPs are organized, witnessing an impressive total participation of around 1200 retailers and various associations. The primary aim of the workshop was to create an effective platform for retailers, distributors, and suppliers of electrical appliances. It sought to enhance their confidence and understanding of the benefits of energy conservation through the adoption of star-labelled appliances, which significantly reduce electricity consumption.

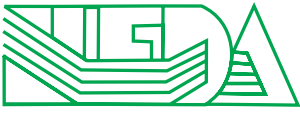


The workshops were held in Varanasi, Agra, Ghaziabad, Kanpur, Mirzapur, Gautam Buddha Nagar, Gorakhpur, Meerut, Saharanpur, Prayagraj, Ayodhya, Moradabad, Bareilly, Shahjahanpur, Jhansi, Aligarh, Gonda, Muzaffarnagar, and Basti.

Building Energy Efficiency:

The role of EEB Cell is Monitoring of implementation of UPECBC-2018, Technical support in the implementation of UPECBC to govt and stakeholder departments through demonstration building projects, Organizing training to govt. and private stakeholders regarding the ECBC code and Eco Niwas Sanhita for Residential buildings, and Star Rating program for energy efficient buildings (Commercial and residential), etc. During the 4th quarter of 2022-23 total 6 training programs were organized (4 physical and two online) for officers of various Development Authorities, Nirman Nigam and Awas Vikas





Parishad. More than 130 participants were trained during these training programs.

Webinar: (PAT Cell) Capacity Building of Designated Consumers:

UPSDA organized a series of webinars for designated consumers of Uttar Pradesh. In the continuity of this, subsequent webinar was organized on 31st January 2023 for Cement Plants and other industries of UP. The objectives of this workshop were to create awareness among the designated consumers about the PAT Schemes, various timelines, Normalization, Issuance of ESCerts, Enforcement of the PAT Scheme, and Showcase the best practices taken by them.

Implementation of Energy Efficiency Measures in KGBV:

UPSDA has taken all the 746 Kasturba Gandhi Balika Vidyalaya for implementation of Energy Efficiency measures such as the replacement of inefficient lights and fans with Energy efficient lights and Fans. During the 3rd quarter of 2022-23, total 593 schools were covered and during the 4th quarter, 125 schools were covered. Thus, total of 718 schools were covered.

Case Study:

Dalla Cement Works - Waste Heat Recovery System (WHRS) Installation

Theme: - Installation of Waste Heat Boilers (4 Nos) with 9.45 MW Net Capacity.

Problem: - Dalla Cement Works having 2 lines with 6000 tpd capacity (1500 & 4500 tpd) rotary kiln. Both kiln flues gas heat having higher losses

and lower utilization as raw material & fuels need lower heat for drying due to lower moisture content (Moisture Raw mix 2-3% and fuels 15-20%).

Solution: - Plant studied potential assessment for WHRS and found potential for power generation as follows

- Line-1: 2.90 MW,
- Line-2: 6.87 MW

Benefit

- ▲ Management decided to install the WHRS system in considering both Preheater & cooler sides with a gross capacity of 13 MW and a Net operating capacity of 9.45 MW.
- ▲ Benefit Generated power of 138.15 Lac KWh in FY-22 from Commissioning (Oct'21) and supplied net power 128.79 Lac KWh waste heat power to own cement resulted in saving of 456.70 Lacs Rs/Annum (FY-22).
- ▲ GHG emission of 10561.06 MT CO₂ reduced



Uttar Pradesh New & Renewable Energy Development Agency (UPNEDA)

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