



UPSavesEnergy

News Letter

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

Quarterly News letter

Apr- Jun: 2024

Issue:09, FY : 2024-25

INSIDE

- Background
- Energy Efficiency Programs in UP
 - Workshop on Uttar Pradesh Urban Cooling Policy
 - Uttar Pradesh MSME Sammelan 2024." MSME Vision for Viksit Bharat.
 - GRIHA Regional Conference: 2024
 - Webinar-Capacity Building of DCs
 - Building Energy Efficiency
- Energy Audit in Institutions
- Case Study

Uttar Pradesh New and Renewable Energy 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.

The Uttar Pradesh government has planned an investment of Rs 75,000 crore in the energy sector to meet the soaring demand for electricity, which is projected to reach 53,000 megawatts (MW) by 2028. This summer, the peak demand in UP exceeded the 30,000 MW mark. The Incremental demand driven by

industrialization, urbanization, and the growing charging infrastructure for electric vehicles, will continue to push power consumption higher. UP is working on a multipronged roadmap to augment power generation as well as fortify infrastructure to withstand the energy growth trajectory. The allocated fund will go into ramping up energy feeders infra, and installing smart meters and across the state. The remaining will be invested in two thermal projects, which are 1,980 MW Ghatampur and 1,320 MW Obra C plants in Sonbhadra districts respectively. To meet the Power Demand, Uttar Pradesh is also focusing on Renewable Energy (RE). The Total Install capacity of RE in state is 5711MW(As on 31.05.2024)



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.

Energy Efficiency Programs in UP

Workshop on the Uttar Pradesh Urban Cooling Policy

On 19th June 2024, a workshop on the **The Uttar Pradesh Urban Cooling Policy** was organized by the Department of Housing and Urban Planning and the Department of Environment, Forest and Climate Change, Government of Uttar Pradesh, in collaboration with the NRDC, UPNEDA and knowledge partners. Over a 100 participants joined including government officials, industry experts, real estate developers, academia, civil society organizations, and media representatives. The session set the stage for collaborative efforts amongst stakeholders and technical solutions to combat urban heat effectively. An MOU was also signed between NRDC and UPNEDA.



Workshop on Uttar Pradesh Urban Cooling Policy

Uttar Pradesh: MSME Sammelen 2024: "MSME Vision for Viksit Bharat".

The ASSOCHAM Organised a 2-day event marking international MSME Day in Hotel Hyaat Regency on 26th -27th June 2024. UPSDA actively participated in the programme.

The primary objective of MSME Sammelen, under the MSME Vision for Viksit Bharat, was to promote MSMEs and policies. This event provided MSMEs with the opportunity to engage with a wide spectrum of experts from various industries, policymakers, PSUs, state bodies, export promotion councils, development institutions, and financial institutions. The event concluded successfully, fostering impactful discussions and strategic insights designed to propel the MSME sector forward.



Hon'ble Minister Mr. Rakesh Sachan addressing the gathering during the session of MSME Sammelen.

Workshop on "GRIHA Regional Conclave 2024:

GRIHA Council conducted its Annual Regional Conclave in Lucknow, on dated, 20th June 2024 at Hyatt Regency, with the theme "**Accelerating Climate Action in a Built Environment.**"

The 'GRIHA Conclaves' served as platforms to deliberate on the interdependence between communities and organizations in creating inclusive and climate-resilient infrastructure. UPSDA act as an active partner in the event. These events contributed to drive towards decarbonizing the built environment by the year 2050 and achieving the target of becoming a 'Net Zero'. Aligned with the vision of becoming Viksit Bharat @2047, encompassing various aspects of development such as economic growth, social progress, environmental sustainability, and good governance, the GRIHA Regional Conclaves provided forums to discuss mitigation and adaptation strategies in creating inclusive and climate-resilient infrastructure.



Valedictory Session by Sh. Manoj Singh, ACS, Ministry of Forest Environment and Climate Change, Gov.UP

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

On 21st May 2024, UPSDA organized a highly engaging webinar focused on "Technologies to Reduce Carbon Footprint." The event brought together approximately 50 participants from diverse sectors, creating a platform for robust discussions and knowledge sharing.



Webinar by Green Power Int. on Technologies to Reduce Carbon

The webinar covered a range of innovative and impactful topics, including:

Carbon Capture, Storage & Utilization: Exploring advanced techniques and technologies to capturing and repurposing carbon emissions.

Trigeneration: Discussing the combined production of electricity, heat, and cooling from a single source to enhance energy efficiency.

Biogas Generation & Utilization: Highlighting methods for producing and using biogas as a sustainable energy source.

BUILDING ENERGY EFFICIENCY (ECBC): This quarter, the EEB Cell conducted training programs for various Development Authorities, building sector professionals, and students, focusing on the Uttar Pradesh Energy Conservation Building Code-2018 (UPECBC).

Key programs included:

1. One day Capacity Building training programme in Goel Institute of Technology & Management, Lucknow (2nd June 2024). 110 Participants Joined this Training Programme.

2. One Day Physical Training Program on "Uttar Pradesh Energy Conservation Building Code-



Capacity Building Programme in Goel Institute.

2018" was organized for the students of **Integral University, Kursi Road, Lucknow, Uttar Pradesh.**

Date: - 25.04.2024

No. of participants: -46



Capacity Building Programme in Integral University, Lucknow

3. One Day Physical Training Program on "Uttar Pradesh Energy Conservation Building Code-2018" was organized for the officials of **Hapur-Pilkhwa Development Authority, Hapur, Uttar Pradesh.**

Date: - 24.06.2024

No. of participants: - 26

Energy Audit in Institution: - UPNEDA (UPSDA) has commenced Energy Audit work for 11 government educational institutes in the state. Energy audits of Eight institutions was conducted during last quarter, and remaining three institutions in this quarter.

Case Study: - Installation of Bio-Mass Briquette Plant.

The Bindal Paper Mills, was established in the year 2009 as a greenfield plant in Muzaffarnagar, UP, with manufacturing capacity exceeding 100000 TPA. Bindal Paper Mills, produce, hundred percent agro based, writing and printing paper. Plant follows the three R's- Reduce, Reuse and Recycle so as to reduce the pollution and protect the environment. In July 2022, Plant commissioned a 170 TPD Lime Kiln plant for recycling lime mud waste. A coal-based producer gas plant was also installed along with lime kiln to reduce the consumption of LSHS in the lime kiln.




Energy Conservation Measures: In the year 2022-23, the plant took the initiative to reduce fossil fuel usage in the lime kiln by installing a 100-ton-per-day biomass briquette plant, which produces bio briquettes from pulp mill waste. As a result, the plant now produces approximately 50 MT of bio briquettes with a GCV of 3500 Kcal/kg. These briquettes are used in the Producer Gas Plant as a substitute for coal, and the resulting gas is utilized as fuel in kiln firing, thereby minimizing the consumption of LSHS quality fuel. This process has significantly reduced pulp waste, which was previously dumped in landfills. The pulp waste is now dewatered, dried, and reused as fuel in the Producer Gas Plant. Additionally, this initiative has greatly reduced fossil fuel consumption.

The plant's approximate investment was Rs 4 crore.

**Uttar Pradesh New & Renewable Energy Development Agency
(UPNEDA)**

**उत्तर प्रदेश नवीन एवं नवीकरणीय ऊर्जा विकास अभिकरण
(Department of Additional Sources of Energy)**

 <https://upneda.org.in>

 @UPNEDA_Agency

 @upneda

 @upneda22