



ENERGY CONCLAVE - 2025

**India's Energy Landscape and Energy Transition towards Security
and Sustainability through the Synergistic Approaches
(20-21 September, 2025)**



**Organized By
Department of Economics
Banaras Hindu University, Varanasi-
221005**

(A Central University Declared as Institution of Eminence)

Chief Patron Prof. Sanjay Kumar Vice Chancellor Banaras Hindu University	Patron Prof. Binda D. Paranjape Dean, Faculty of Social Sciences Banaras Hindu University
Organising President Prof. Mrutyunjaya Mishra Head Department of Economics Banaras Hindu University	Convener Dr. J. B. Komaraiah Course-coordinator, M. A. Economics (Energy Economics) Department of Economics Banaras Hindu University

About the University:

Banaras Hindu University (BHU) stands as a prestigious institution of higher learning in India, situated in the holy city of Varanasi. Founded in 1916 by Pandit Madan Mohan Malaviya, a visionary educationist and freedom fighter, BHU has grown to become one of Asia's largest residential universities. The institution is renowned for its diverse academic offerings, spanning disciplines such as arts, sciences, engineering, medicine, and agriculture. BHU fosters a unique blend of traditional values and modern education. The university's commitment to research, coupled with its rich cultural heritage, have made significant contributions in various fields, including politics, science, and arts. As a central university, BHU continues to play a crucial role in shaping India's educational landscape while maintaining its connection to the spiritual and historical significance of Varanasi.

About the Department of Economics:

The Department of Economics at Banaras Hindu University is a distinguished centre for economic studies, offering comprehensive programs at the undergraduate, postgraduate, and doctoral levels. Renowned for its rigorous curriculum and research contributions, the department focuses on both theoretical and applied aspects of economics, with particular emphasis on issues relevant to the Indian economy. The department's commitment to academic excellence and its rich intellectual environment prepare students for successful careers in academia, policy-making, and the corporate world.

About the M. A. in Economics (Energy Economics) Course:

M. A. in Economics (Energy Economics) at Banaras Hindu University emerged from its partnership with the BRICS Network University (BRICS-NU) program. This course is designed to provide students with a

comprehensive understanding of the economic principles and challenges associated with energy production, distribution, and consumption. The program also covers renewable and non-renewable energy sources, energy markets, pricing mechanisms, and policy implications. Students engage with current issues such as climate change, sustainable development, the transition to clean energy technologies and also explore the unique energy landscape of India, addressing topics like rural electrification, energy poverty, and the country's evolving energy mix. Through a combination of theoretical framework and practical case studies, BHU's M. A. in Economics (Energy Economics) course equips the students with the analytical tools necessary to tackle complex energy-related problems. Graduates of this program are well-prepared for careers in energy policy, environmental consultancy, and sustainable development sectors.

About the Energy Conclave 2025:

Powering the India's Energy Future:

The galaxy of the researchers, academicians, industry leaders, policymakers, and innovators are joining together to explore, discuss, understand and participate in the India's transformative journey towards energy security and sustainability. This conclave brings together the brightest minds to discuss cutting-edge solutions for India's energy landscape for decades to come. Together, we're building a resilient, clean, and secure energy ecosystem for more than 1.4 billion Indians. India's energy transition is a complex undertaking that requires a coordinated effort across various sectors. By leveraging synergistic approaches, the country can achieve its goals of energy security, sustainability, and climate change mitigation. Several potential themes for the Energy Conclave - 2025 could focus on India's energy landscape, transition, security, and sustainability. These include:

India's Energy Landscape:

India's Energy Landscape: Vision for Sustainable & Secure 2047: India's ambitious energy goals, including achieving 500 GW of non-fossil fuel capacity by 2030 and net-zero emissions by 2070. It could explore policy frameworks, investment opportunities, and technological pathways to achieve these targets.

Emerging Green Energy Technologies and their Role in India's Energy Future: Exploring the latest advancements in renewable energy, energy storage, smart grids, and other technologies that can accelerate energy transition in India.

India's Energy Transition: A Pathway to Net-Zero by 2070: The main focus on the practical steps that India needs to achieve its net-zero targets, including de-carbonization strategies, carbon capture technologies, and the role of carbon markets.

Energy Security and Sustainability-A Synergistic Approach: India can balance its energy needs with its sustainability goals, considering factors like resource availability, energy access, and environmental impact.

Technology and Innovation in Energy Transition:

The Role of Digitalization and AI in India's Energy Transition: These technologies like AI, big data, and block chain can optimize energy production, distribution, and consumption.

Sustainable Energy Solutions - Innovation and Deployment: The latest innovations in renewable energy technologies, energy storage, and energy efficiency, and discuss strategies for their widespread deployment.

Green Hydrogen - A Catalyst for India's Energy Transition: Exploring the potential of green hydrogen as a clean energy carrier and its role in de-carbonizing various sectors.

Global Collaboration on Green/Clean Energy Initiatives: The importance of international cooperation in achieving global climate goals and promoting clean energy technologies.

Financing for the Energy Transition: The financing of public and private sectors by identifying and exploring through the various funding mechanisms and investment opportunities in the clean/ and Green energy sector.

The Role of Consumers in India's Energy Transition: This theme would explore how consumer behavior and choices can drive the adoption of sustainable energy practices.

Synergistic Approaches:

Integrating Renewable Energy: India is working to integrate a higher share of renewable energy into its electricity grid, which requires addressing the intermittency of solar and wind power through energy storage solutions and smart grids.

De-carbonizing Hard-to-Abate Sectors: Efforts are being made to reduce emissions from sectors like power, steel, and transportation, which are major contributors to greenhouse gas emissions.

Promoting Energy Efficiency: The effective measures need to improve energy efficiency across various sectors, including buildings, industries, and transportation, are being implemented to reduce overall energy demand.

Community Participation: Involving local communities in the energy transition process is crucial for ensuring equitable access to clean energy and promoting sustainable development.

Opportunities and Challenges: The major opportunities and challenges include dependency on imports, geopolitical risks, sanctions on major suppliers, declining of domestic production, constraints of exploration of new reserves due to regulatory and environmental hurdles, integration of renewable energy, inadequate storage of energy to meet the growing demand storage solutions to manage peak demand, maintaining of grid stability etc.

These themes can be further tailored to focus on specific aspects of the energy sector, such as power generation, transportation, or industrial applications.

Conclave themes & Key Focus Areas:

The comprehensive discussions on India's energy transition pathways:

Energy Security

- Diversification of energy sources and supply chains
- Strategic petroleum reserves and energy storage
- Grid modernization and smart infrastructure
- Energy import dependency reduction strategies
- Critical minerals and supply chain resilience

Renewable Energy

- Solar and wind energy scaling initiatives
- Green hydrogen production and applications
- Biomass and waste-to-energy solutions
- Offshore wind development potential
- Energy storage technologies and innovations

Energy and Climate Change

- National and International Climate Policies
- Greenhouse Gas Emissions
- Climate Change on Energy Production and Energy Demand
- Climate Change Impacts and Vulnerability and Assessments
- Climate Change on Social, Economic, and Political Dimensions
- Climate Conflicts, Public Awareness and Education, Justice:
- Climate Change and Business

Industry Transformation

- Decarbonization of heavy industries
- Energy efficiency and conservation measures
- Clean technology adoption and innovation
- Circular economy in energy sector
- Digital transformation and AI in energy

Policy & Finance

- Regulatory frameworks and policy support
- Green finance and investment mechanisms
- Carbon pricing and emissions trading
- International cooperation and partnerships
- Just transition and social equity

The above themes are suggestive only; authors are invited to submit their full papers along with Abstracts on any relevant topic other than abovementioned. The themes can also be adapted to reflect the specific location and context of the Energy Conclave 2025.

Call for Papers:

The organizing committee invites original research papers from the academicians, corporate, researchers, scholars and students from various Departments working on the main and sub-themes of the Energy Conclave -2025.

Guidelines for authors:

Please consider the following guidelines and deadlines to facilitate the submission and subsequent follow-up processes.

- Length of the paper including reference should not exceed 5000 words.
- The abstract should clearly indicate the research problem, the methodology, and the results of the work within 300 words with maximum 5 keywords.
- References of the authors must strictly follow APA latest edition guideline.
- Manuscript should be in MS word format (A4 Size, Time New Roman, font size-12).
- The University has a strict anti-plagiarism policy; therefore, the authors must ensure originality of the work.

Submission of Abstracts:

Those who are interested to participate and present their work in the conclave are requested to send their abstract through the Google form <https://forms.gle/VbswCFsnnCSLp1CWA>.

The selected papers of the participants will be informed through email. The decision of the Review Committee regarding the selection of papers will be final and binding. One paper from each main theme will be selected for the best paper award. The recommended paper by the review committee will be published in an edited volume of any reputed publisher as Emerald/ Springer after incorporation of comments received in the conclave.

Important Dates:

Last Date of submission of abstract	1 st September, 2025 (05:00 PM)
Notification for acceptance	4 th September, 2025
Last date for registration	10 th September, 2025 (05:00 PM)
Conference dates	20 th to 21 st September, 2025

Registration Fees:

Corporate/faculty members	Rs. 2,000/-
Research Scholars	Rs. 1,000/-
BHU Alumni	Rs. 1,000/-
Students	Rs. 1,000/-

Accommodation & Travel Allowance:

Participants should note that the registration fee includes meals and accommodation. The university offers very limited shared accommodation options in the Guest Houses in

the University and the twin sharing guest rooms in the faculty hostels. This lodging will be available from 5.00 P.M. on September 19th until 10.00 A. M. on 22nd September 2025, allowing attendees to arrive the evening before the event begins and depart in the morning after it concludes. Organisers will not bear the travelling allowances.

Venue:

The conclave will be held in the Conference Hall & Lecture Theatres of “**Arthashastra Bhavan**”, Department of Economics, Faculty of Social Sciences, Banaras Hindu University, Varanasi - 221005.

How to Reach:

Varanasi is well connected with the major cities through rail network with frequent services of mail and expresse trains. There are three prominent stations in Varanasi named as Varanasi Cantt. (Cantonment), Varanasi City and Banaras. Pt. Deen Dayal Upadhyay Railway Station that falls on New Delhi - Howrah route is located at a distance of about 18 kms. from the University with frequent auto-rickshaw/taxis available. The city is also well connected by Air with the Lal Bahadur Shastri International Airport having direct flights from all major cities of the country.

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All Professors of the Department and affiliated colleges

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