



Confederation of Indian Industry



## 13<sup>th</sup> CII Bioenergy Summit 2025

***“Fuelling India's Green Revolution: Forging Global Partnerships”***

**14 October 2025, Hotel Lalit, Barakhamba Avenue, Connaught Place, New Delhi**

### Concept Note

India is at the forefront of the global bioenergy revolution, contributing 14% to its energy mix in 2025, with demand projected to grow by 45% from 2023 to 2030, positioning it as the world's fastest-growing bioenergy market. With an annual biomass availability of 750 million tonnes, India is uniquely equipped to build a sustainable, scalable, and globally competitive bioenergy economy, capturing a significant share of the global market, expected to expand from US\$44 billion in 2025 to US\$125 billion by 2050.

Aligned with its Net-Zero 2070 commitment, India's bioenergy sector is poised for a 4–6x growth by 2030, driven by its ethanol blending success (20% target achieved ahead of schedule) and ambitious goals for advanced biofuels: 5% Compressed Biogas (CBG) blending by 2028-29, 2% bio-jet fuel for international flights by 2028, 5% biodiesel by 2030, and 7% biomass co-firing by 2026. These targets open vast opportunities across feedstock supply chains, technology innovation, rural economic transformation, and global trade partnerships.

Globally, frameworks, like the EU's ReFuelEU Aviation mandate and the US Inflation Reduction Act, are driving investments in Sustainable Aviation Fuel (SAF) and advanced ethanol. India must adopt similar incentive-driven models, forge strategic South-South partnerships with Asia, Africa, and Latin America, and ensure resilient supply chains for affordable, year-round feedstock. Domestically, initiatives like SATAT and the National Bioenergy Policy 2018, alongside proactive state-level efforts in Uttar Pradesh, Maharashtra, and Gujarat, are helping in scaling up bio-CNG, logistics, and advanced fuel infrastructure. However, challenges in policy harmonization, long-term offtake certainty, and financing mechanisms must be addressed to achieve commercial viability.

With COP30 (Brazil, November 2025) spotlighting biofuels as critical for decarbonizing mobility, agriculture, and industry, India has a unique opportunity to showcase its bioenergy leadership, attract international capital, and establish itself as a hub for biofuel technology exports and global trade.

The **13<sup>th</sup> CII Bioenergy Summit 2025** will serve as a dynamic platform for global and national stakeholders to strategize on policy, innovation, investment, and partnerships. Building on the CII National Bioenergy Committee's thematic

subgroups, the Summit will deliver actionable roadmaps to scale feedstock availability, advance technology, align policies, and mobilize financing, accelerating India's bioenergy transition and reinforcing its global leadership.

### **Session Themes:**

- **Building Global Momentum in Bioenergy: Forging Strategic Partnerships** – Exploring international collaborations to position India as a global bioenergy hub, leveraging COP30 to attract capital and technology transfers.
- **State-level Initiatives for Promoting Sustainable Bioeconomy and Feedstock Availability** – Showcasing state-driven models to ensure year-round feedstock supply and foster sustainable bioeconomies.
- **Transforming Mobility and Rural Economy: Harnessing Biofuels** – Highlighting biofuels' role in decarbonizing transport and empowering rural economies through bio-CNG and ethanol value chains.
- **Drawing up Strategic Trade and Technology Partnerships** – Facilitating trade agreements and technology transfers to build scale in advanced biofuels, like SAF and CBG, especially for the global markets.
- **Financing India's Bioenergy Future: Towards Commercial Viability** – Developing blended finance models, offtake agreements, and incentives to de-risk investments and drive commercial adoption.

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