



Confederation of Indian Industry



10 & 11 September 2024 - Hyderabad

WELCOME ADDRESS

Mr. Gaurav Goel

Chairman, Green Sugar Summit 2024

&

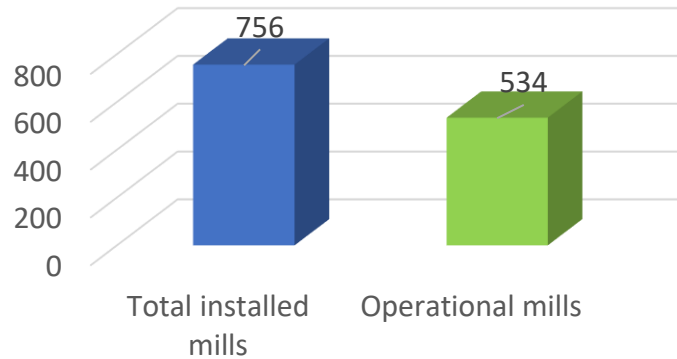
Managing Director – Dhampur Sugar Mills Limited



Welcome to All

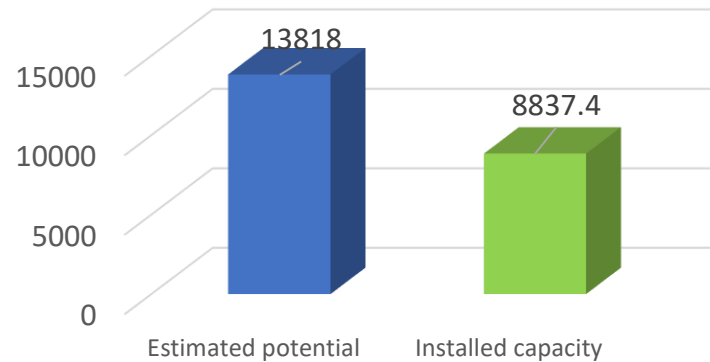
India sugar industry – Facts and figures as on 2023

No. of Mills



Source: sansad.in

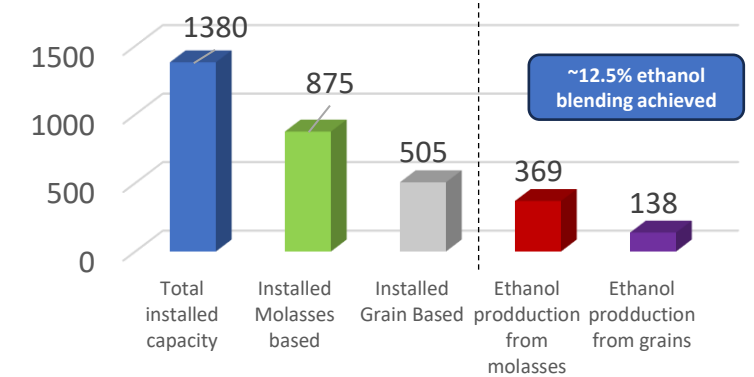
Bagasse based Cogen, MW



Source:

<https://pib.gov.in/PressReleaseFramePage.aspx?PRID=1911482>

Ethanol Production, Crore liters

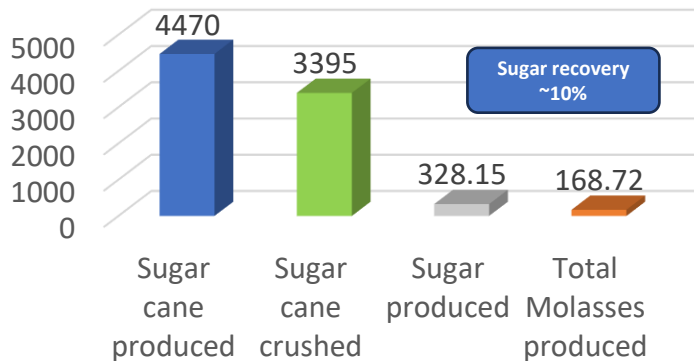


Source: As on Dec 2023,

<https://pib.gov.in/PressReleasePage.aspx?PRID=1988727>

[Ethanol used in petrol now more from maize, damaged foodgrains than sugar | India News - The Indian Express](#)

Cane crushed, Lakh MT



Source: [Chinimandi](https://chinimandi.com)

59.07 lakh hectares of land used for cane cultivation which equals to 3.3 % of total agricultural land in India

76% of total cane produced is used for sugar production

Annual energy consumption of sugar industry is about 20.28 Million MTOE.

Source: ** BEE PAT presentation for Sugar Sector

Highlights of Indian sugar industry

India emerges as the world's largest producer and consumer of sugar and world's 2nd largest exporter of sugar.¹

The gross value added from the sugar crop was about 806 billion Indian rupees²

Projected growth rate at a CAGR of 6.87%³

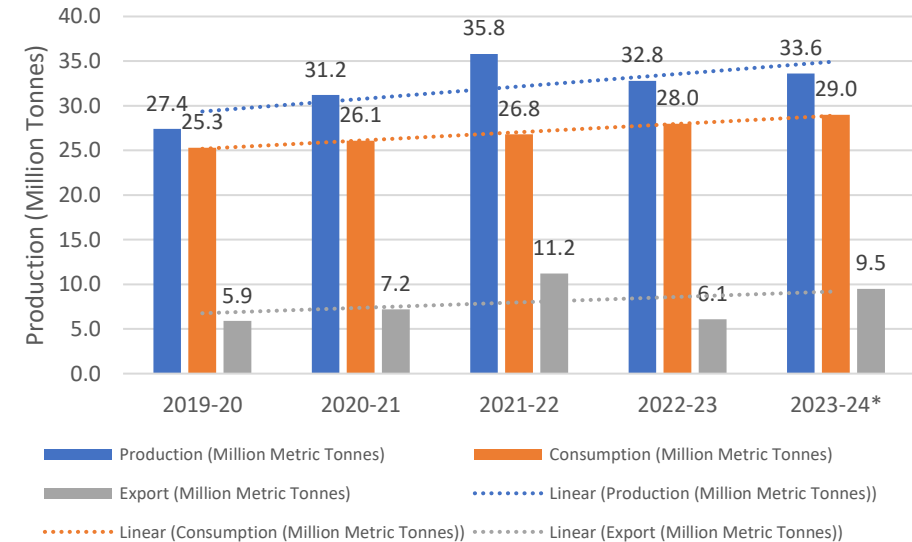
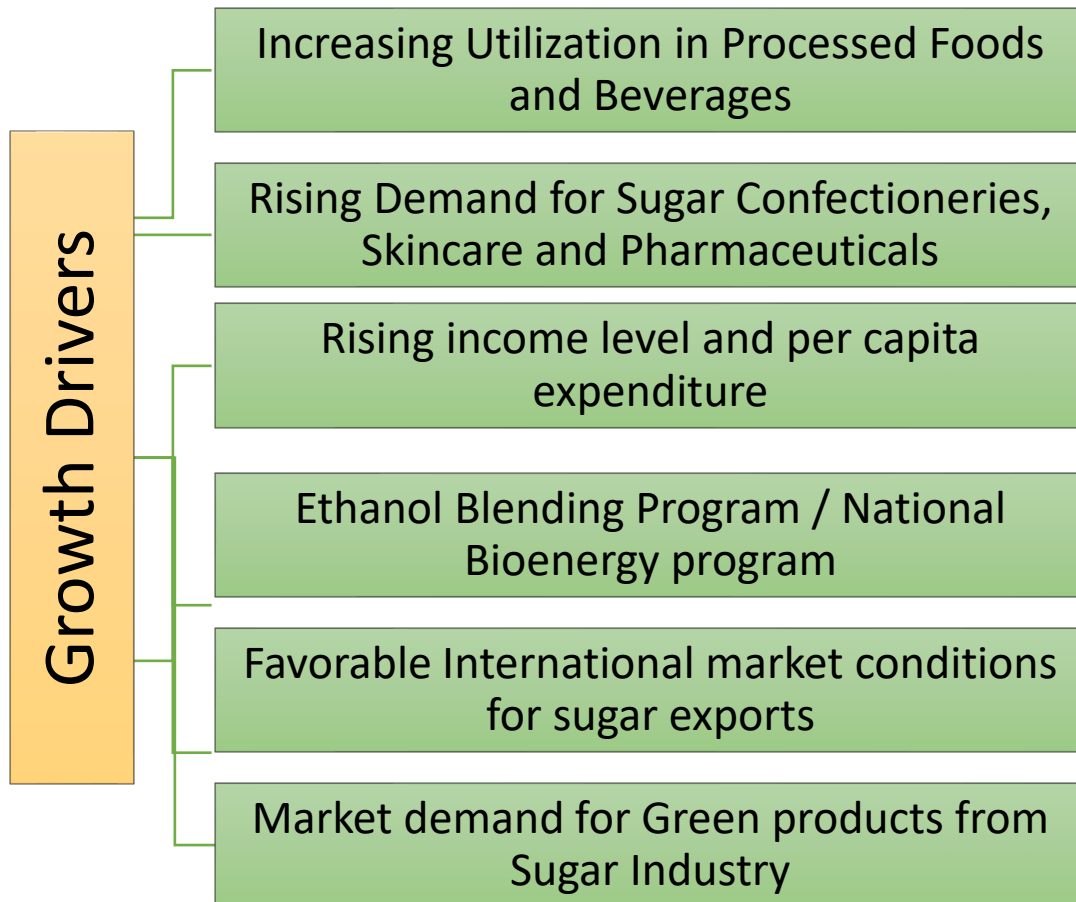
Per Capita Sugar Consumption – 19 kg/person/year³

India's annual sugar consumption growth rate of 2.2% is higher than the world average of about 1%.¹

India saved ₹99,000 Crore in Forex through Ethanol Blending Program since its inception in 2014⁵

1. [Press Release: Press Information Bureau \(pib.gov.in\)](https://pib.gov.in)
2. <https://www.ibef.org/news/india-becomes-chair-of-international-sugar-organisation-iso-for-2024-to-lead-global-sugar-sector>
3. <https://www.sugarproducer.com/2024/02/largest-sugar-producer-in-the>
4. <https://www.chinimandi.com/where-next-for-indian-sugar-consumption/>
5. <https://sugartimes.co.in/105932/09/2024/17/02/11/>

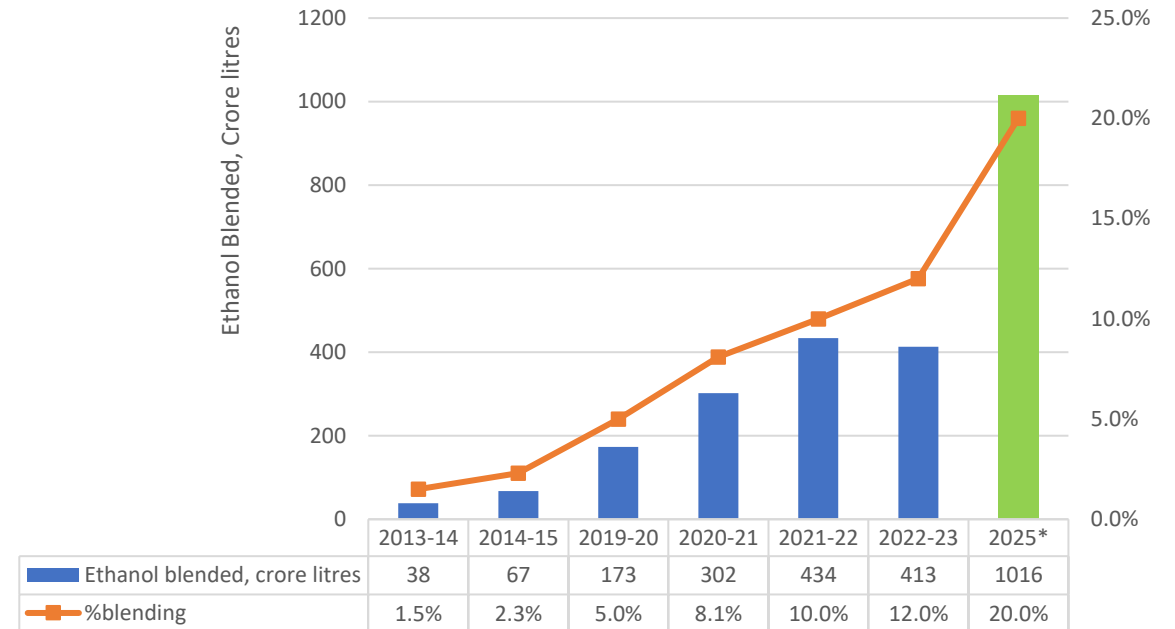
Indian Sugar Industry – Growth drivers



- ❖ **Total no. of sugar mills - 534**
- ❖ **Over last five years**
 - ✓ **Sugar Production increased by 23%**
 - ✓ **Sugar consumption increased by 15%**
 - ✓ **Sugar Exports increased by 61%**
- ❖ **Revenue growth of sugar mills ~8-12%**

Ethanol Blending Program Highlights

- ❖ Sugar industry contributed more than 50% of ethanol blended in the petrol.
- ❖ Achieved **15% ethanol blending by 2024** and the industry is all set to meet **20% by 2025**.
- ❖ **Saving Rs 99,000 crore** of foreign exchange per year,
 - energy security - lower carbon emissions,
 - use of damaged foodgrains,
 - greater investment opportunities
- ❖ Ethanol production **capacity increased to 1380 crore liters**.



Reference: Ministry of Petroleum and Natural

National Bioenergy program

❖ Sugar industry actively contributing to

National Bioenergy program

☐ Using its waste such as

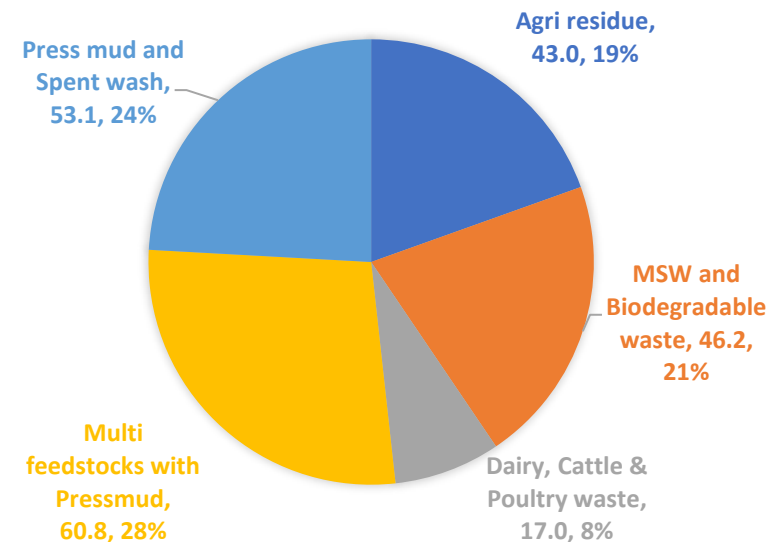
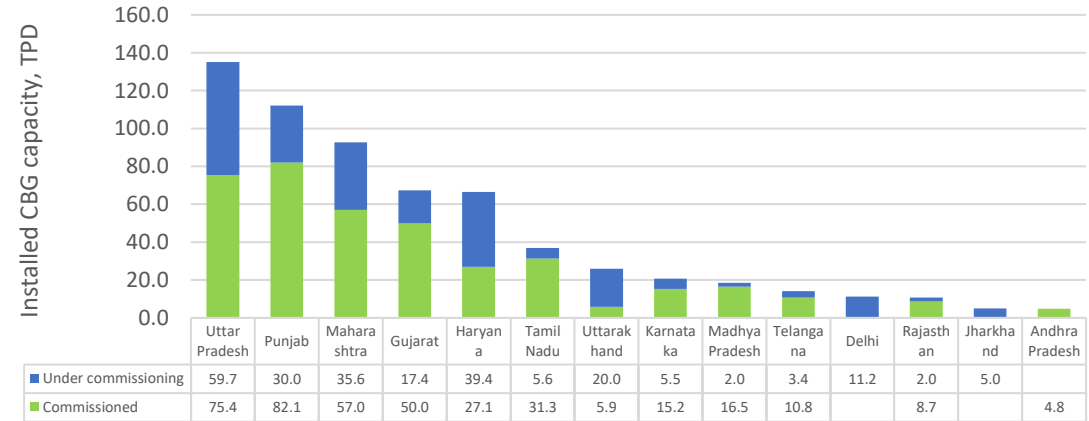
☐ Press mud and Spent wash to produce Compressed Biogas (CBG)

☐ Fermented Organic Manure (FOM)

☐ Liquid Fermented Organic Manure (LFOM)

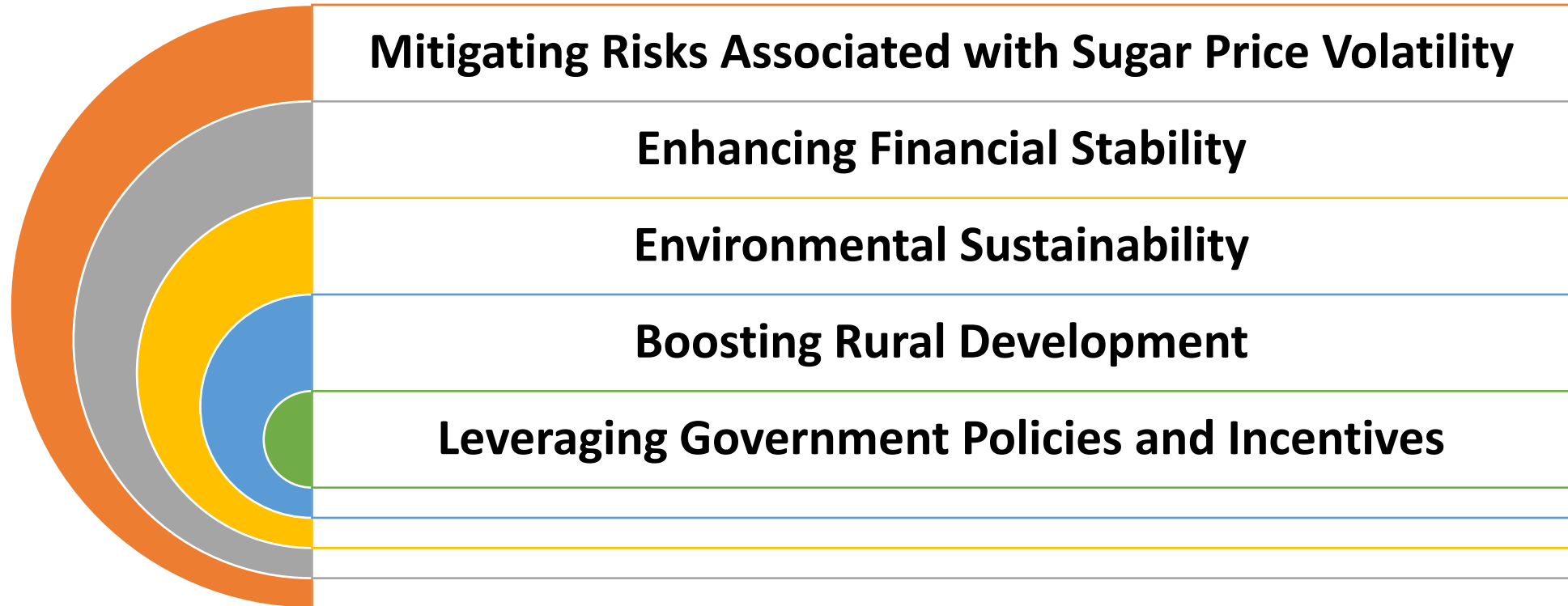
Reference: SATAT Scheme & BioUrja portals

Operational plants : 66 (384.7 TPD)
Plants under commissioning : 29 (236.8 TPD)
Total : 95 (621.5 TPD)



Need for diversification in the Indian sugar sector

Key factors that influence the long-term sustainability and profitability of the Indian Sugar Industry



By focusing on diversification, the Indian sugar sector can improve its resilience, contribute to national energy goals, and provide sustainable economic benefits to rural communities.

Sugar Industry diversification – Opportunities and Challenges

Opportunities

- Sugar mills into bio-refineries.
- Value addition - production of biofuels, bioplastics, and bio-based chemicals.
- Government policies and incentives supporting bio-refineries.

Challenges

- High capital investment and technological requirements.
- Need for skilled labor and advanced research.
- Supply chain and logistics challenges in feedstock management.

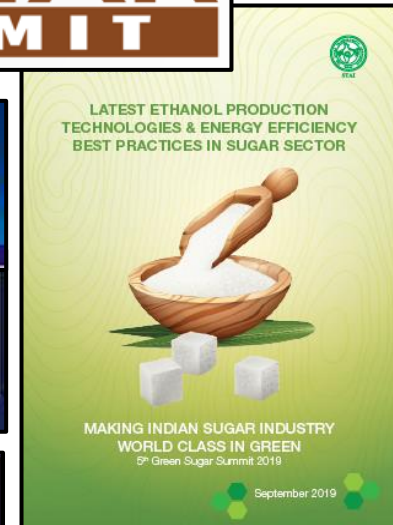
Energy Efficiency in Sugar & Biofuels Sector - CII Initiatives

- Supporting Sugar Sector to overcome key challenges through
 - Energy Audits & Studies
 - Training Programs & Publications
 - Awards and Recognition – sharing of Best Practices among others
 - Conferences & seminars
 - Webinars
 - Mission to best-operating plants

Green Sugar Summit – Annual Sugar Conference

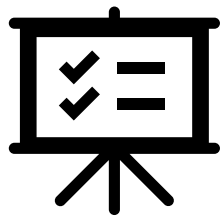
- **Objective**

- Facilitate continual improvement in the performance of Indian Sugar Mills
- Assist them to move towards world-class standards
- Information sharing on latest development and innovation in the sector
- Excellent example for ‘learning through sharing’
- Deliberations and discussions have been very useful
- Participation of leading associations – STAI
- Focus area
 - Efficient Ethanol Production
 - Energy & Environment
 - Waste & Water management





*2- day conference and exposition –
Making Indian Sugar & Biofuels Plants World Class in Green*



7 sessions on various
topics/technologies



26+ Speakers /
Technical experts



Exposition &
networking
opportunities

9th Green Sugar Summit 2024 : Focus areas...



Sugar production to Bio-Refineries – Opportunities and Challenges



New Age Diversification opportunities in Sugar sector



Indian Mobility Transformation through Ethanol Blending



Ethanol Production Technologies and Best Practices



Challenges and Opportunities for Sustainability in Sugar sector



CBG production opportunities in Sugar Sector



Best Practices & Case Studies for improving Energy Efficiency in Sugar plant utilities

9th Green Sugar Summit 2024 : Program agenda...

DAY-1: 10th September 2024

Time	Session Description
1100 hrs– 1145 hrs:	Plenary Session: Panel Discussion on Sugar production to Bio-Refineries – Opportunities and Challenges
1150 hrs– 1300 hrs:	Technical Session - I: Innovative technologies for Efficiency
1415 hrs– 1540 hrs:	Technical Session - II: Sugar & Ethanol Production Technologies and Best Practices
1605 hrs – 1715 hrs:	Technical Session - III: Enhancing Efficiency of Bio-Refinery operations

9th Green Sugar Summit 2024 : Program agenda...

DAY-2: 11th September 2024

Time	Session Description
1000 hrs – 1105 hrs:	Technical Session - IV: Challenges and Opportunities for Sustainability in Sugar sector
1130 hrs – 1300 hrs:	Technical Session - V: CBG production opportunities in Sugar Sector
1415 hrs – 1525 hrs:	Technical Session - VI: Energy Efficiency in electrical utilities - Sugar Industry
1555 hrs – 1700 hrs:	Technical Session – VII: Improving Energy Efficiency in Sugar plant utilities

Our gratitude...

- ❖ We greatly appreciate the efforts put in by various stake holders & advisory group members and many individuals to bring this Green Sugar Summit to this level,
- ❖ We thank all the sponsors who came forward and supported this event.
- ❖ All Presidents and Secretaries of various Sugar Associations also gave us tremendous support
- ❖ It is our duty to express our gratitude
- ❖ Look forward to such support in future also...

Our request...

- ❖ Actively participate
- ❖ Provoke healthy discussions
- ❖ Be free and help in knowledge sharing
- ❖ Explore the possibility to implement the ideas and Best Practices discussed in this Green Sugar Summit 2024 in your Mill & Distilleries and reap the benefits
- ❖ Interact with technology suppliers and Sugar Plants to understand more on the latest developments
- ❖ Visit the technical exposition for more details on the technologies

Way forward...

- ❖ India Sugar & Ethanol industry - Continuously supporting the Nation in its Low Carbon journey,
- ❖ There are many simple kaizens being done in many mills which can be easily horizontally deployed,
- ❖ Efficient utilization of resources like energy, bagasse, molasses, press mud, Spent wash and raw material is the need of the hour,
- ❖ Innovative technologies to be developed and adopted to make Sugar, CBG and Ethanol Production “SUSTAINABLE” & “GREEN”
- ❖ Young talent needs to be pooled and nurtured as Sugar Technologists & Biofuels Manufacturing Experts,
- ❖ Any idea that can help ultimately our Industry is welcome

Let us all join and

**Contribute further to making Indian Sugar & Ethanol Industry
World Class in Green**





Confederation of Indian Industry

9th
Green
SUGAR
SUMMIT

----Principal Supporter--



ENGINEERING
TOMORROW

Thank You!
Supporters 2024

----Platinum Supporter--



Corporate
Contributor



Supporting
Association

