

COGEN WORLD COALITION (CWC) Webinar  
‘INDIA in FOCUS’  
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# Cogeneration Association of India



SANJAY KHATAL  
DIRECTOR GENERAL

[www.cogenindia.org](http://www.cogenindia.org)

## About Cogen India:

- Cogeneration Association of India established in 2002.
- Primary objective : To represent and assist stakeholder interest of Bagasse based Cogeneration and Bio-mass based cogeneration.

# The All India Energy Sector

- Energy /Power is included in the 'Concurrent List' of the Constitution of India.
- Policy framework decided both by the Central Government and respective State Governments
- Private participation allowed.
- Governed by the Electricity Act 2003:

## Features:

- Consolidation of laws relating to generation, transmission, distribution, trading and use of electricity.
  - Development of electricity industry and competition therein.
  - Protection of consumer interest.
  - Rationalization of electricity tariff etc.
- Independent Ministry of Power and Ministry of New & Renewable Energy headed by a common Minister at the Central Government.
  - Each State Government has its independent Department of Power & Energy too

# Sectoral contribution of installed capacity (as on 30<sup>th</sup> June 2023)

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Central Sector	99005 MW	-	25%
State Sector	104969 MW	-	26%
Private Sector	199785 MW	-	49%
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Total	403.769 GW		

## Power Mix:

Type	Installed Capacity		Percentage Share
	(MW)	(GW)	
Fossil Fuel	2,36,065	236	59%
Renewable	1,67,694	168	41%

## Renewable Power Mix:

Type	Installed Capacity		Percentage share
	(MW)	(GW)	Potential
Solar	57,706	58	34%
Wind	40,788	41	24%
Cogeneration	10,206	10	6%
Hydro	46,850	47	28%
Small Hydro	4,888	5	3%
Waste to Energy	477	0.5	0.5%
Nuclear	6,780	7	4%

## Indian Balance as on 2021-22:

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Requirement	13,79,812	Million units	1,379.812 GW
Available	13,74,024	Million units	1,374.024 GW
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Shortfall	-5,787	Million units	-5.787 GW

## Peak Energy Scenario:

Peak Demand	2,03,014	Million units	203.04 GW
Fulfilment	2,00,539	Million units	200.539 GW
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Shortfall	-2475	Million units	- 2.475 GW

# Cogeneration at a Glance:

- India is committed to achieve 500 GW of renewable energy by 2030 as announced at the UN Climate Change Conference in Glasgow in Conference of Parties (COP26)
- 332 GW Renewables to be added by 2023.
- Huge potential

# Significance of Cogeneration in the Indian context

- Relevant to the farmers of India for incremental income generation
- Ensuring Circular Economy
- Bagasse based cogeneration serves dual purposes of Generation as well as Consumption.
- 60% Energy supplied to National Grid.
- 40% Captive Consumption by Sugar Industry itself.
- Absolutely minimization/No transmission Losses at all.
- Revenue Generation of Rs. 12,000 Cr ( \$ 1488 Million)
- 18,000 MWs Potential available for Capex
- Significant reduction in Carbon footprint about 19500 MT



# Cogen India Activities in Brief

## Policy promotion:

- ▶ Striving with Centre & State Governments for ensuring conducive policy framework for Cogeneration
- ▶ **'One-Stop Destination'** for all CHP Stakeholders to serve Technical, Financial and Legal issues

## Organization of workshops/training programs:

- ▶ Bringing together stakeholders for technology development and improvement
- ▶ 60 Business Meets conducted
- ▶ Over 250 operators trained

# Cogen India Activities in Brief (Contd...)

## Information dissemination:

- ▶ **Sugar Cogeneration Handbook – 2021** : First of its kind compendium of articles on CHP
- ▶ **Industrial Cogeneration India Newsletter** : **Sixty Nine** issues of the newsletter published. Reaches to over more than 1500 stakeholders
- ▶ **Nisarg Urja** : A Bi-monthly newsletter in regional language catering local stakeholders

# National Cogeneration Awards (NCA)

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- ▶ Launched in 2022 for the first time in India dedicated to CHP
- ▶ Recognition of Talent, Efficiency and Productivity
- ▶ Fully digitalized system based on quantitative and qualitative parameters

# Thank You

