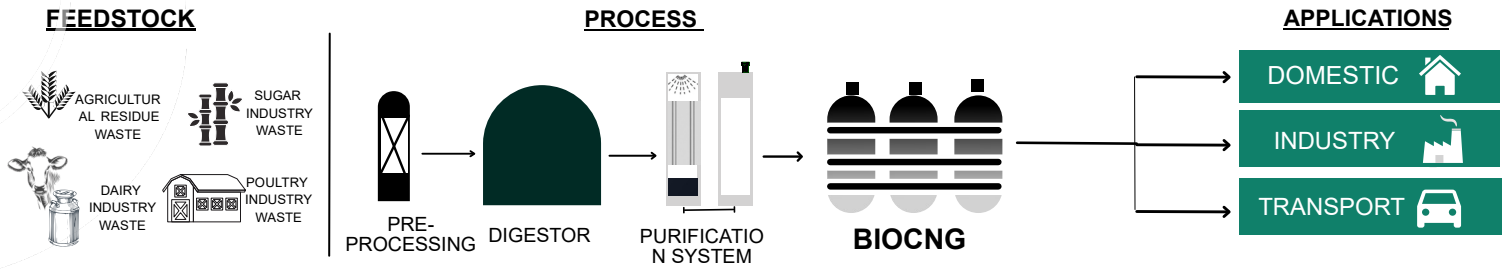


Credits : SATATwebsite

BIOCNG PROGRAM



Biological Natural Gas or BioCNG is an alternative to fossil fuels and is produced from organic wastes such as agricultural residues, industrial wastes, fruit vegetable wastes, and sewage wastes, among others. It is generated by removing the CO₂, H₂S, and moisture of biogas and subsequently increasing the methane content to over 90% and compressing it for storage and transportation. The calorific value of ~47,000 to 52,000 KJ/kg is almost equivalent to that of CNG.

PROGRAM

GGGI's Biological Compressed Natural Gas (BioCNG or CBG) program in India aims to develop a vibrant BioCNG market and create an enabling ecosystem by reducing policy & technology barriers and creating localized sustainable & viable business models.

RATIONALE

India's import dependence on crude oil, natural gas, and large share of carbon-intensive energy sources necessitates action to ensure energy security and economic sustainability in the long run. In this regard, the Government of India (GOI) targets to reduce its crude oil dependency by 10% in 2022 and increase the share of natural gas in the total energy mix of the country to 15% by 2030. Also, through Sustainable Alternative Towards Affordable Transport (SATAT), GOI aims to set up 5000 BioCNG plants by 2024.

OBJECTIVE

To create an enabling ecosystem for scaling up the BioCNG market development that will support clean energy transition in the transport and industrial sector.

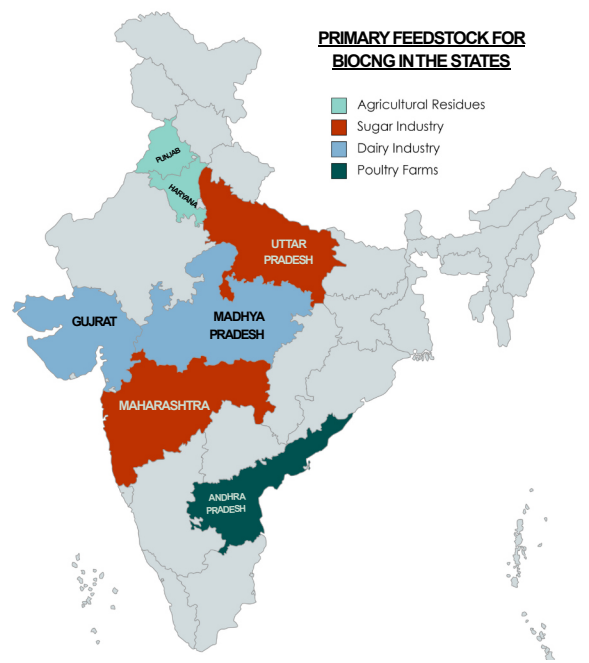
PROGRAM APPROACH

- Creating an enabling policy environment to identify and address regulatory & policy issues.
- Formulating innovative and novel business models.
- Creating an enabling framework and ecosystem for service providers & Investors.
- Mobilizing green finance from national and international financial institutions/banks.

KEY HIGHLIGHTS

- ▶ Create a pipeline of 15 BioCNG projects and shortlist at least 8 high potential projects (with prefeasibility studies).
- ▶ Development of bankable business models for replication and scale-up.
- ▶ Demonstrating and supporting financial closure of 4-5 BioCNG projects (using different feedstock).
- ▶ Investment mobilization target of ~USD 25 million in large projects and exploring concessional line of credit for future BioCNG projects.
- ▶ Generation of ~5000 Direct and Indirect Green Jobs.
- ▶ Reduction of ~50,000 tons direct CO₂ emission annually.

FOCUS STATES



GGGI'S STRATEGIC ROLE

Global Green Growth Institute is supporting the Ministry of Petroleum and Natural Gas (MoPNG), the Government of India, and public sector oil & gas companies in developing BioCNG market, which will contribute to India's energy security and reduction in the import of fossil fuels.



POTENTIAL IMPACTS



Partners



Nodal Agency for the Sustainable Alternative Towards Affordable Transportation (SATAT) scheme.



Global Green Growth Institute is a knowledge partner to MoPNG for the SATAT scheme.

Funding



MINISTRY OF FOREIGN AFFAIRS OF DENMARK

Ministry of Foreign Affairs (MoFA) of Denmark is providing the funding support to the program.

About GGGI

Global Green Growth Institute, headquartered in Seoul, Republic of Korea, is a treaty-based international intergovernmental organization dedicated to supporting and promoting strong, inclusive, and sustainable economic growth in developing countries and emerging economies.



Contact

India Country Representative,
Community of Practice Lead (Energy), GGPIDivision
Mr. Nishant Bhardwaj
Email: nishant.bhardwaj@gggi.org



[@GggiIndia](https://twitter.com/GggiIndia)



[@GGGIIndia](https://www.facebook.com/GGGIIndia)



www.gggi.org or

SCAN

