

## Compressed Biogas

November 24, 2024 • vajiramandravi.com



### About Compressed Biogas

- It is the mixture of **hydrocarbon gases and vapours** consisting **mainly of Methane** in gaseous form.
- It has been produced by the **decomposition of animal and plant waste**, purified and compressed for use as an automotive fuel and industrial application;
- CBG has **calorific value and other properties similar to CNG** and hence can be utilized as green renewable automotive fuel.
- Thus it can replace CNG in automotive, industrial and commercial areas, given the abundance of biomass availability within the country.
- Conversion of agricultural residue, cattle dung and municipal solid waste (MSW) into CBG in a commercial scale is expected to have the following benefits
  - **Import reduction of natural gas** and crude.
  - Utilization of agricultural residue, cattle dung and MSW for the production of CBG and thus to achieve **reduction in emissions and pollution.**
  - A boost towards fulfillment of National commitments in achieving climate change goals.
  - Providing a buffer against energy security concerns and crude/gas price fluctuations.
  - Contribution towards Swachh Bharat Mission through responsible waste management
  - Lowering pollution and carbon emission.
  - Providing additional **source of revenue to the farmers**, rural employment and amelioration of the rural economy

## Q1:What is Natural Gas?

It is a mixture of gases which are rich in hydrocarbons. It is a colorless and odorless gas composed of 70-90% methane (CH<sub>4</sub>). Its other ingredients include ethane (C<sub>2</sub> H<sub>6</sub>) and propane (C<sub>3</sub> H<sub>8</sub>).

**Source :**Gwalior houses India's first modern, self-sufficient gaushala with a state-of-the-art Compressed Biogas (CBG) plant

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Source: <https://vajiramandravi.com/current-affairs/compressed-biogas/>

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