



UP First Bio-CNG Plant

Why in News?

Uttar Pradesh's first and the country's second [waste-to-CNG plant](#) is being set up in Prayagraj, Uttar Pradesh .

Key Points

▪ About the Plant:

- This plant will produce [bio-fuel \(Bio-CNG\)](#) from **straw, poultry litter, cow dung and wet waste** .
- It will produce **21.5 tonnes of bio-CNG** , **200 tonnes of organic manure** and **30 metric tonnes of briquettes per day**.
- It will be operated on **the [Public-Private Partnership \(PPP\) model](#)** .
- To supply biofuel, a pipeline will be laid in the area by **Adani Gas Limited** .
- This will result in **annual savings of about Rs 5 crore on waste disposal** .
- **About one-third of the city's waste** will be used in this plant.

▪ Objective:

- Streamlining **waste management**.
- Promoting **renewable and clean energy sources**.
- Reducing **environmental pollution (especially caused by stubble burning)**.
- **Making city gas supply** accessible and affordable.

Bio-CNG

- Bio-CNG , also known as '**Biomethane**', is a **renewable and clean burning transportation fuel** produced through the conversion of biogas to natural gas quality.
- It is essentially purified biogas, made from the following organic waste materials:
 - **Agricultural waste:** crop residues, straw, manure
 - **Food waste:** spoiled food, leftovers
 - **Sewage sludge:** Solid waste from wastewater treatment plants