

1st LNG-fuelled green truck of India

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In news– Blue Energy Motors, a two-year old start-up backed by a Singapore-based firm, unveiled **India's first Liquefied Natural Gas (LNG) fuelled green truck in Chakan near Pune recently.**

About LNG-fuelled green truck-

- The trucks are powered by Iveco FPT, global powertrain brand of Iveco Group.
- The company claimed that the **engines generate high torque and help trucks deliver best in class TCO** (total cost of ownership) and offer unmatched ride comfort and safety for the drivers for long hauls.
- The FPT Industrial engine is **one the most powerful natural gas engines in the market** and is **compatible with CNG, LNG and biomethane**; it uses multipoint stoichiometric combustion to assure best-in-class fuel consumption and lower noise than diesel engines.
- **These are long-haul trucks that can travel up to 1,400 kilometres in one fill.**
- It is to be noted here that with LNG, logistics cost can be reduced by 16 per cent.
- The market entry of the LNG-fuelled trucks will start with the introduction of 5,528 4×2 tractor by the end of September 2022.
- It's cost effective and a change-maker for the transport sector. It is a great alternative to petrol and diesel at a time when India Import so much.

Liquefied Natural Gas (LNG)-

- Natural Gas is **frozen in order to turn it into liquid form.**

- It takes up **less storage space than CNG**.
- It offers an energy density that can be compared to diesel fuel.
- **Commonly used in long haul transportation/import.**
- Using proper procedures, LNG can be converted to CNG.

Compressed Natural Gas (CNG)-

- Natural Gas is pressurized to the point where it is very compact.
- It is **easier to refuel than LNG**, which requires special handling and equipment.
- CNG is **much safer to handle** and cheaper than LNG.

CNG vs. LPG Comparison-

- **Chief component of CNG is methane.** It is lighter than air.
- **CNG** releases less greenhouse gas than LPG.
- Main constituents of LPG are propane and butane (heavier than air).
- LPG releases carbon dioxide, but is still cleaner than Petrol and Diesel.
- In the case of a spill, CNG quickly dissipates, whereas LPG will settle on the ground.
- In general, CNG is considered safer than LPG, since LPG is difficult to disperse.