



World's First CNG Terminal

Why in news?

- Recently, Prime Minister Narendra Modi laid the foundation stone for the “world’s first CNG (Compressed Natural Gas) terminal at Bhavnagar in Gujarat.

About CNG

- CNG is natural gas compressed under pressure so that more of it occupies a lesser volume in the fuel tank. It is a fuel gas mainly composed of methane (CH₄).
- CNG is compressed to a pressure of 200 to 250 kg/cm². In this compressed form, it occupies less than 1 percent of its volume at atmospheric pressure.



Note: Gujarat currently houses three LNG (Liquefied Natural Gas) terminals at Dahej, Hazira, and Mundra. One more LNG terminal is currently under construction at Chhara port which is likely to be completed by end of the calendar year 2022.

What are the benefits of using CNG?



Environment friendly: Commonly referred to as the green fuel because of its lead and Sulphur-free character, CNG reduces harmful emissions.



Not a Fire Hazard: The ignition temperature of CNG is 600°C, which is higher than gasoline (320°C) and diesel (285°C). This means that CNG vehicles are less likely to catch fire under any circumstances.



Dual facility: CNG Vehicle can run both on CNG and Petrol.



Low operational cost: The operational cost of vehicles running on CNG, as compared to those running on other fuels, is comparatively low.

Why is the Bhavnagar port important?

- The Bhavnagar port is in close vicinity to the Dholera Special Investment Region (SIR) and is expected to serve the industries that set up base in the region. It is already connected to the northern hinterland through a railway line that extends to the existing berths at the port.

Significance of the CNG Terminal

- The supply mechanism of CNG once operational will be revolutionary, enabling India to tap small-scale and stranded gas volumes which are yet to be utilized.
- The project will create vast employment opportunities for Bhavnagar and adjoining area youth in logistics, transportation, and warehousing.



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