

# City Gas Distribution scheme

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**In News:** Nirmala Sitharaman extends Ujjwala scheme to 1 crore more beneficiaries The Finance Minister also said the city gas distribution network, providing CNG to automobiles and piped cooking gas to households, will be expanded to 100 more districts.

## About City Gas Distribution scheme

- The Government of India is pushing to promote the usage of environment friendly clean fuel i.e. natural gas as a fuel/feedstock across the country to move towards a gas based economy.
- Presently the share of gas in the country's energy mix is just over 6% and the aim is to reach the 15% figure, while the world average is 24%.
- Purpose for development of CGD networks is to increase the availability of cleaner cooking fuel (i.e. Piped Natural Gas) and transportation fuel (i.e. Compressed Natural Gas) in the country.
- The Petroleum and Natural Gas Regulatory Board (PNGRB) has also initiated the process of a new CGD bidding round covering 124 districts in 14 States to increase the potential coverage to about 53% of the country's area covering 70% of the country's population.

## Benefits Of CNG

### Environmental Benefits

- No impurities, No Sulphur (S), No lead (Pb)
- Very low levels of polluting gaseous emissions without smell and dust
- Molecular structure compactness prevents the reactive processes which lead to the formation of Ozone (O<sub>3</sub>) in the troposphere

## **Safety Benefits**

- Lighter than air – in case of leak no dangerous puddles
- Unlikely to ignite due to:
  - High ignition temperature
  - Narrow range of ignition
- Lowest injury and death rate per vehicle mile
- CNG cylinders structurally most sound and have passed every severe tests

## **Monetary Benefits**

- Cheaper than conventional fuel
- Pay-back period is short

## **Technical Benefits**

- Very high anti knock power (more than 120 ON) allows greater performance compared to petrol
- Does not require refining plant or additive adding and can be used immediately after its extraction
- No evaporation leaks and spills of fuel, both during refuelling and feeding of the car
- CHG combustion produces a very low quantity of carbon deposits (permits a longer life of lubricant oil, spark plug, piston drum, valves & other components)