

Ethanol 100

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Union minister for **Petroleum & Natural Gas** recently flagged off the high-octane, eco-friendly fuel-Ethanol 100 with a target of **20% ethanol-petrol** blend by **2025-26**.



[Ref- Zee Business]

About Ethanol 100 program:

- India commenced the sale of **ETHANOL 100 across 183 Indian Oil outlets** in Maharashtra, Karnataka, Uttar Pradesh, New Delhi, and Tamil Nadu.
- The **oil marketing companies (OMCs)** scaled up distribution of E20 to 12,000 outlets within a year following the government's push for a blend of 20% ethanol in petrol by 2025-26.
- Such initiatives saved Rs 85,000 crore in **Foreign Exchange** and **reduced CO2 emissions** significantly, equating to the effect of **planting 1.75 crore trees** over the **past decade.**

About Ethanol 100:

- Ethanol 100 stands as a **cleaner**, **greener alternative to gasoline**, with its **high-octane rating**, typically between 100-105.
- E100 fuel is **not 100 percent ethanol** but includes 93-93.5% ethanol blended with 5% **petrol** and 1.5% **co-solvent**, which is a binder.
- Previously, the specifications for E100 fuel in India mandated using 100% ethanol as fuel.
- However, due to safety concerns, the specifications were revised to mandate the blending of ethanol with some amount of petrol.
- When using 100% ethanol as **fuel**, **flames are not visible** until one enters the vehicle, the addition of petrol gives flames **a yellow colour**.

Significance of Ethanol:

ETHANOL 100 is positioned as a cleaner alternative to gasoline, offering lower emissions and



high performance for engines.

- ETHANOL 100 fuel has the potential to **transform our transportation sector** and reduce our dependence on fossil fuels.
- This reflects the government's strategy to bolster the agriculture sector and cut import reliance.
- It is significant for India to be among the few countries to offer ETHANOL 100, which is compatible with a range of vehicles, including <u>flex-fuel vehicles</u>.
- The consistent supply of ethanol, supported by robust industry, allays availability concerns and affirms commitment to decarbonization.