



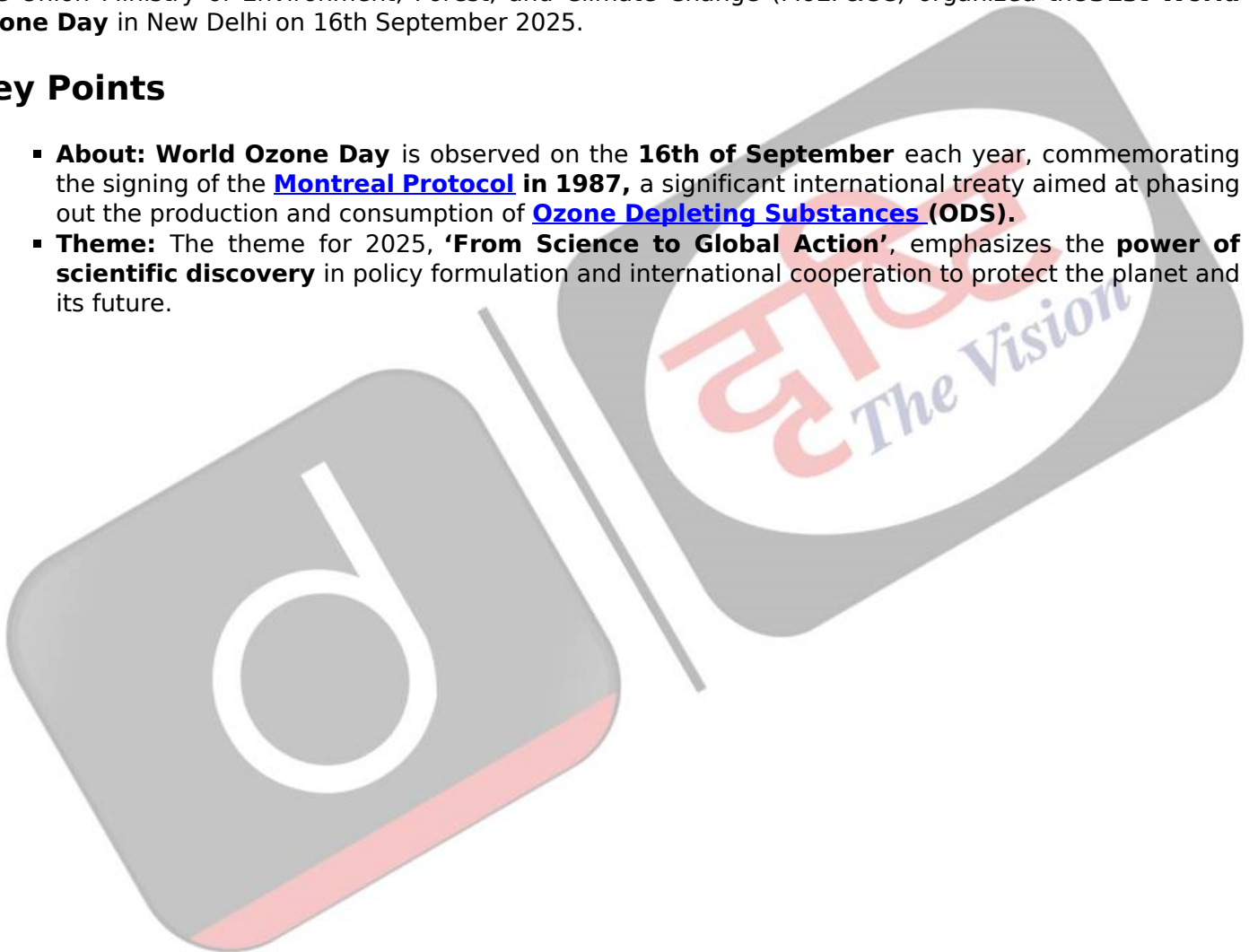
## 31st World Ozone Day

### Why in News?

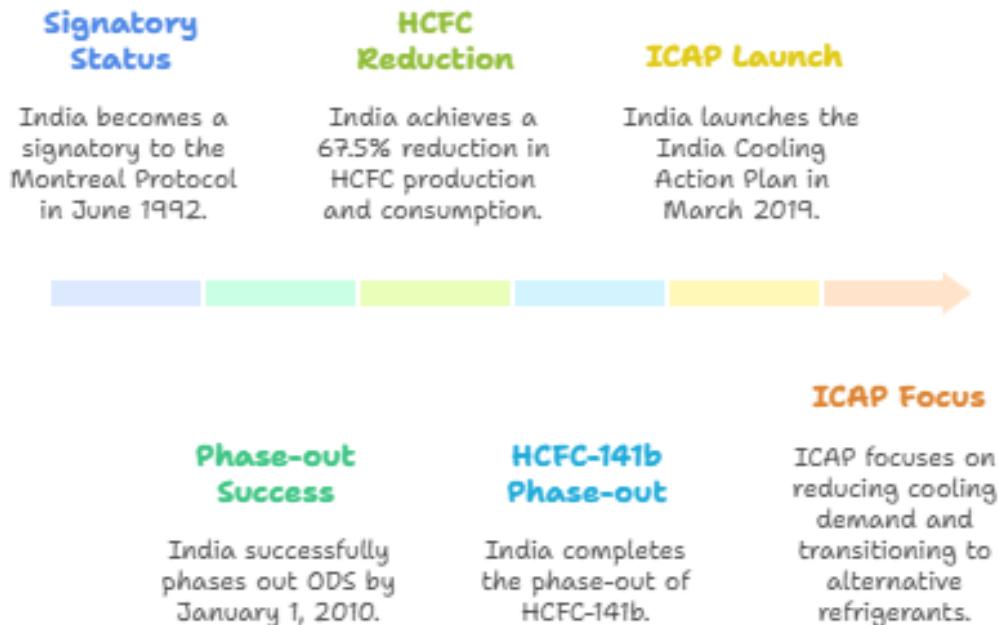
The Union Ministry of Environment, Forest, and Climate Change (MoEF&CC) organized the **31st World Ozone Day** in New Delhi on 16th September 2025.

### Key Points

- **About: World Ozone Day** is observed on the **16th of September** each year, commemorating the signing of the [Montreal Protocol in 1987](#), a significant international treaty aimed at phasing out the production and consumption of [Ozone Depleting Substances \(ODS\)](#).
- **Theme:** The theme for 2025, '**From Science to Global Action**', emphasizes the **power of scientific discovery** in policy formulation and international cooperation to protect the planet and its future.



# India's Montreal Protocol Implementation



Made with Napkin

## Ozone

- The **ozone layer**, located in the [stratosphere](#) between 10 and 40 kilometers above Earth's surface, shields us from harmful UV radiation.
  - This protective layer, known as **stratospheric ozone or good ozone**, prevents **adverse health effects like cataracts and skin cancer** and safeguards agriculture, forestry, and marine life.
  - However, **man-made [Ozone Depleting Substances](#)** have caused **ozone depletion in the stratosphere**.
- The international community recognized the need for action, **leading to the Vienna Convention in 1985** and the **subsequent Montreal Protocol in 1987**.
- The **inclusion of [Hydrofluorocarbons \(HFCs\)](#)** in the Montreal Protocol led to the **Kigali Amendment**, with India ratifying it in September 2021.

## Tropospheric Ozone

- Tropospheric (or ground-level) ozone, or bad ozone, is a **short-lived climate pollutant** that remains in the atmosphere for only hours to weeks.
- It does not have any direct emission sources; rather, it is a compound formed by the interaction of sunlight with [volatile organic compounds \(VOCs\)](#) – including [methane](#) – and nitrogen oxides (NOX) emitted largely by human activities.

