

## Report on India's Priority Corridors for Zero-Emission Trucking

*Prelims: General issues on Environment| Sustainable Development | Current events of national and international importance.*

### Why in News?

Recently, Principal Scientific Adviser (PSA) to the Government of India released a report on India's Priority Corridors for Zero-Emission Trucking.

#### Zero-Emission Trucking (ZET)

- **Need** - Nearly 40% of fuel consumption and transport emissions in India originate from long-distance trucks.
- It is crucial for decarbonising the logistics sector, reducing air pollution, and strengthening India's energy security.
- **Zero-Emission Trucks (ZETs)** - They are vehicles powered by clean energy sources like electricity or hydrogen, producing no tailpipe emissions.
- They can lower carbon emissions by 44% to 79% compared to diesel trucks and are more sustainable transport mode.
- It can help India improve logistics efficiency, lower costs, improve air quality, and reduce environmental impact.

- **Report** - It is the result of a rigorous, data-driven assessment designed to support India's vision of Atmanirbhar Bharat and economic goals.
- **Developed with the support of** - Centre of Excellence for Zero Emission Trucking (CoEZET) - IIT Madras, Rocky Mountain Institute, and pManifold as knowledge partners.
- Objectives - To guide future investments in charging infrastructure, public-private partnerships, and regulatory support mechanisms.
- **Selection of ZETs corridors** - The report ***identifies the top 10 high-impact corridors*** most suited for early ZET deployment, laying the groundwork for a dedicated national ZET infrastructure network.
- They were identified through a 3-phase process by a quantitative and qualitative assessment using parameters such as
  - Toll traffic data and mapping of supply/demand centres
  - Stakeholder consultations
  - Detailed field research
- It also considered factors such as high freight traffic, industrial activity, availability of ancillary services, grid infrastructure readiness, corridor length relative to battery range, and strategic stakeholder inputs.
- **Significance** - It will serve as a strategic guide for policymakers and industry actors with comprehensive insight into the three-part corridor identification process.

- By strategically targeting these corridors, India can accelerate its **transition to a zero-emission freight sector** while boosting competitiveness and resilience.
- It can also serve as a reference for the PM E-DRIVE scheme.

**PM E-DRIVE scheme** was launched in 2024 by the Ministry of Heavy Industries to promote the adoption of zero-emission transport (ZET) solutions.

## Reference

[PIB| Release of Report on India's Priority Corridors for ZETs](#)

**Related News** - [PM E-DRIVE Scheme](#)

