

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

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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 <u>from</u> <u>long-distance trucks.</u>
- It is crucial for decarbonising the logistics sector, reducing air pollution, and strengthening India's energy security.
- **Zero-Emission Trucks (ZETs)** Thay are vehicles <u>powered by clean energy sources</u> like electricity or hydrogen, <u>producing no tailpipe emissions.</u>
- 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 <u>identifies the top 10 high-impact</u> <u>corridors</u> 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 <u>reference for the PM E-DRIVE scheme</u>.

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

