

# India's Rail Electrification Drive Nears Completion, Enabling Net-Zero Carbon Emissions and Cleaner, Faster Passenger Mobility

## India's Rail Electrification Boosts Efficiency, Cuts Diesel Consumption and Sets Global Benchmark

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Indian Railways is close to completing the electrification of almost its entire broad-gauge network, with more than 99% already electrified and the remaining stretches expected to finish soon. The pace of work in recent years has been extraordinary. Between 2019 and 2025, Indian Railways electrified over 33,000 route kilometres, working at an average speed of more than 15 Route KMs every single day. The total distance electrified during this period alone is almost equal to the entire railway network of Germany, showing the scale and seriousness with which India has expanded clean and efficient rail traction.

India's broad gauge rail network is nearly fully electrified, with 99.2 percent coverage across 25 states and union territories.

**99.2% BROAD GAUGE  
RAIL NETWORK ELECTRIFIED  
25 STATES/UT ELECTRIFIED**



India's achievement stands out even when compared with countries that have long-established railway systems. India has managed to electrify nearly its entire broad-gauge system despite operating one of the world's largest and busiest rail networks.

This transition has reduced diesel consumption, cut emissions, lowered operational costs and improved the efficiency and speed of train operations. While several advanced economies still depend heavily on diesel traction due to cost or structural limitations, India has moved forward with clear planning and consistent execution.

As the final stretches are completed, the country is set to operate one of the world's largest fully electrified railway systems, supporting Indian Railways' goal of becoming a net-zero carbon emitter and offering cleaner, faster and more reliable mobility to millions of passengers every day.

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