

Indian Railways Nears Full Electrification at 99.2% of Broad Gauge Network, Far Ahead of UK (39%), Russia (52%) & China (82%)

100% Electrification Across 14 Railway Zones and 25 States/UTs

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Electrification of railway network on Indian Railways (IR) has been taken up in mission mode. So far, about 99.2% of Broad Gauge (BG) network has been electrified. The electrification in remaining network has been taken up. Electrification carried out during 2014-25 and before 2014 is as under:

Period	Route Kilometer
Before 2014 (about 60 years)	21,801
2014-25	46,900

Indian Railways' achievement in railway electrification stand out globally. According to the latest report of International Union of Railways (UIC) of June, 2025, railway electrification in important railway systems is as under:

Country	Railway Electrification
United Kingdom	39%
France	60%
Spain	67%
Russia	52%
Japan	64%
China	82%
Switzerland	100%

Railway Electrification achieved during Financial Year 2023-24 and 2024-25 is 7,188 and 2,701 Route kilometer (RKM) respectively. Further, all new line / multi-tracking projects are being sanctioned and constructed with electrification.

Zone wise status of electrification is as under:

SN	ZONE	% Electrified
1	Central Railway	100%
2	East Coast Railway	100%
3	East Central Railway	100%
4	Eastern Railway	100%
5	Konkan Railway	100%
6	Kolkata Metro	100%
7	North Central Railway	100%
8	North Eastern Railway	100%
9	Northern Railway	100%
10	South Central Railway	100%
11	South East Central Railway	100%
12	South Eastern Railway	100%
13	West Central Railway	100%
14	Western Railway	100%
15	North Western Railway	98%
16	Southern Railway	98%
17	Northeast Frontier Railway	95%
18	South Western Railway	95%

State/UT wise status of electrification including Bihar, Jharkhand, Rajasthan, Chhattisgarh and Tamil Nadu is as under:

SN	STATE	% Electrified		SN	STATE	% Electrified
1	Andhra Pradesh	100%		16	Mizoram	100%
2	Arunachal Pradesh	100%		17	Nagaland	100%
3	Bihar	100%		18	Odisha	100%
4	Chandigarh	100%		19	Puducherry	100%
5	Chhattisgarh	100%		20	Punjab	100%
6	Delhi	100%		21	Telangana	100%
7	Gujarat	100%		22	Tripura	100%
8	Haryana	100%		23	Uttar Pradesh	100%
9	Himachal Pradesh	100%		24	Uttarakhand	100%
10	Jammu & Kashmir	100%		25	West Bengal	100%
11	Jharkhand	100%		26	Rajasthan	99%
12	Kerala	100%		27	Tamil Nadu	97%
13	Madhya Pradesh	100%		28	Karnataka	96%
14	Maharashtra	100%		29	Assam	92%
15	Meghalaya	100%		30	Goa	91%

Existing BG network in Arunachal Pradesh, Meghalaya, Nagaland, Tripura and Mizoram states of North eastern region have been 100% electrified. Further, all new line / multi-tracking projects are being sanctioned and constructed with electrification. Assam has been 92% electrified and electrification in remaining network has been taken up.

The latest details of Railway Electrification are available on Indian Railways' website at following link:

https://indianrailways.gov.in/railwayboard/uploads/directorate/ele_engg/2025/Status%20of%20Railway%20A0Electrification%20as%20on%20A030_11_2025.pdf

The completion of Electrification project(s) depends on various factors like forest clearances by officials of forest department, shifting of infringing utilities, statutory clearances from various authorities, geological and topographical conditions of area, law & order situation in the area of project(s) site, number of working months in a year for particular project site due to climatic conditions etc. All these factors affect the completion time of the project(s).

Reduction in CO₂ emissions in transportation by railways as compared to transportation by road is as under (Ref:- NITI Aayog Report titled “Fast Tracking Freight In India, June 2021)

Mode of Transportation	CO ₂ emission for transportation of 1 tonne for 1 km
Road	101 gm
Rail	11.5 gm (about 89% less)

Indian Railways is committed to sustainable operation through near total Railway Electrification combined with use of renewable energy sources, a combination of solar, wind and other renewable sources based on strategic power procurement planning, thus contributing to carbon footprint reduction.

This information was provided by the Union Minister for Railways, Information & Broadcasting and Electronics & Information Technology, Shri Ashwini Vaishnaw, in a written reply to a question in Lok Sabha today.

Dharmendra Tewari/ Dr. Nayan Solanki/ Ritu Raj

(रिलीज़ आईडी: 2205232) आगंतुक पटल : 1493

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