

INDIAN ELECTRIC THREE-WHEELER INDUSTRY

Three-wheelers to continue to outpace other auto segments in electrification, penetration expected at ~40% by FY2030

MARCH 2025



Agenda













Highlights





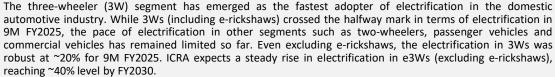
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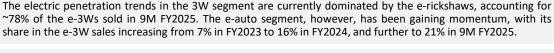
Given the need for last-mile connectivity in India and the 40-45% lower total cost of ownership (TCO) of e-3Ws compared to diesel three-wheelers, the pace of electrification in this segment will remain robust and reach ~40% by FY2030.













The pace of electrification in the 3W (goods) segment has seen a healthy increase in the recent past. Favourable cost of ownership and the demand increase owing to rise of e-commerce have led to higher pace of electrification within this group, especially in the urban regions. The pace of electrification in the 3W (passengers) segment has also seen a healthy ramp-up given that they have emerged as one of the leading options for last-mile connectivity in metros and urban regions. Both the goods and passenger carrier 3Ws are expected to maintain a decent pace of electrification over the medium term - crossing 35% by FY2030 from~21% for both the segments in 9M FY2025.



In terms of state-wise trends, the penetration of e-3Ws, especially e-rickshaws is relatively higher in the northern states of Uttar Pradesh, Bihar, Assam and Delhi. Sales of e-rickshaws were earlier concentrated in states with lower per capita income; however, they are now picking up even in the states with higher per capita income, given the rising need for last-mile connectivity in urban areas, with the trend likely to continue.



While strict eligibility criteria by financial institutions, higher cost of funding coupled with lower loan-to-value, limiting financing options and uncertainty on the resale value remain a few of the key challenges for the adoption of e-3Ws in India, the policy push by the Government in the form of subsidies, road tax and registration fee exemptions, and waiver on the permit fees, etc. continue to propel the pace of electrification in the e-3W segment in the country, as a result of which ICRA expects electrification in the 3W segment (excluding e-rickshaws) to cross the 40%-mark by FY2030.



Name	Designation	Email	Contact Number
Shamsher Dewan	Senior Vice President & Group Head	shamsherd@icraindia.com	0124 – 4545 328
Kinjal Shah	Senior Vice President & Co-Group Head	kinjal.shah@icraindia.com	022 – 6114 3442
Mythri Macherla	Vice President & Sector Head	Mythri.macherla@icraindia.com	022 – 6114 3435
Yashowardhan Swami	Senior Analyst	yashowardhan.swami@icraindia.com	020 – 6606 9923

















ICRA Business Development/Media Contact Details

Name	Designation	Email	Contact Number
L Shivakumar	Chief Business Officer	shivakumar@icraindia.com	022-61693304
Neha Agarwal	Head – Research Sales	neha.agarwal@icraindia.com	022-61693338
Rohit Gupta	Head Business Development – Infrastructure Sector	rohitg@icraindia.com	0124-4545340
Vivek Bhalla	Head Business Development – Financial Sector	vivek.bhalla@icraindia.com	022-61693372
Vinita Baid	Head Business Development – Corporate Sector - West & East	vinita.baid@icraindia.com	033-71501131
Shivam Bhatia	Head Business Development – Corporate Sector - North & South	shivam.bhatia@icraindia.com	0124-4545803
Naznin Prodhani	Head – Group Corporate Communications & Media Relations	communications@icraindia.com	0124-4545860



















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