

"A man is
great by
deeds, not by
birth"
-Chanakya

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Working Paper

IIMK/WPS/714/SM/2026/07

March 2026

Electric Vehicles and India- An Overview

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Electric Vehicles and India- An Overview

Abstract

Focus

This working paper provides an overview of the growth and development of electric vehicles (EVs) in India, situating the transition within the broader context of sustainable mobility, energy security, and climate commitments. With increasing concerns about air pollution, fossil fuel dependence, and urban congestion, EVs have emerged as a key policy priority in India's transportation sector. The paper specifically examines the rapidly evolving India's Electric Two-Wheeler (e2W) ecosystem, including policy frameworks, market trends, infrastructure development, from the perspective of multiple stakeholders. By synthesizing existing knowledge, the study aims to highlight the opportunities and challenges shaping the adoption and scaling of e2W in the Indian context as an harbinger of EV mobility in India and its impact.

Methodology

The study adopts a descriptive research design based on secondary data and literature. Academic journal articles, policy documents, government reports, industry publications, and institutional datasets form the primary sources of information. Through interpretive analysis, the paper reviews and synthesizes insights from existing literature to identify key themes, policy trajectories, and structural factors influencing EV, specifically e2W adoption in India. This approach enables a comprehensive understanding of the current state of the EV sector while drawing connections between technological, economic, and policy dimensions.

Findings

The review indicates that India's EV transition is driven by a combination of supportive policy initiatives, technological advancements, and growing environmental awareness. Government programs, financial incentives, and investments in charging infrastructure have contributed to gradual market expansion, particularly in e2W segments. However, the analysis also reveals persistent challenges, including high geopolitical challenges to access of raw materials like rare metals, upfront costs, limited charging infrastructure, supply chain constraints, and consumer awareness gaps. The findings suggest that while India has made notable progress in promoting electric mobility, sustained policy support, infrastructure expansion, and technological innovation are essential for accelerating large-scale adoption and achieving long-term sustainability goals for e2Ws.



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