



Department of Electrical and Electronics Engineering

TEDx Talk

Electric Mobility is the Future!

SPEAKER

Kartikey Hariyani
TEDxNUV

 **14 October 2025**
 **4:00 PM - 5:00 PM**
 **B-202**
 **III Sem**

Faculty Coordinator

Ms. Kavitha C H
Senior Assistant Professor - EEE

Dr. Sujitha S
Professor & Head - EEE

TEDx Talk – “Electric Mobility is the Future!”

Event: TEDx Talk

Organized by: Department of Electrical and Electronics Engineering,

Institution: New Horizon College of Engineering

Date: 14th October 2025

Time: 4:00 PM – 5:00 PM

Venue: Room B-202

Audience: III Semester Students, EEE Department

Speaker: Mr. Kartikey Hariyani, TEDxNUV

1. Introduction

The Department of Electrical and Electronics Engineering, New Horizon College of Engineering organized a TEDx Talk titled “Electric Mobility is the Future!” on 14th October 2025. The session aimed to inspire young engineers to explore the rapidly evolving field of electric mobility and its potential to transform transportation systems globally.

The event was coordinated by Ms. Kavitha C H, Senior Assistant Professor – EEE, under the guidance of Dr. Sujitha S, Professor and Head – EEE. This initiative is part of the Department’s continuous effort to bring industry experts and innovators to engage students in discussions about emerging technologies and sustainable engineering.

2. Summary of the Talk

Mr. Kartikey Hariyani, the invited speaker from TEDxNUV, delivered an insightful talk on “Electric Mobility is the Future.” He highlighted how the global shift toward electric vehicles (EVs) is redefining transportation by promoting sustainability, reducing dependence on fossil fuels, and improving energy efficiency.

The major themes covered in the talk included:

- Overview of the EV ecosystem – electric motor, controller, battery, and charger.
- Advancements in battery chemistry and charging technology.
- Role of policies, incentives, and government initiatives in EV adoption.
- Employment and entrepreneurship opportunities in the EV sector.
- The importance of innovation, research, and interdisciplinary collaboration.

3. Key Takeaways

- **Sustainability:** Electric mobility is vital for reducing carbon emissions and combating climate change.
- **Technology Evolution:** Rapid advancements in Battery Management Systems, power electronics, and charging networks are making EVs more efficient and affordable.
- **Government Role:** Policy support and infrastructure development are critical for widespread EV adoption.
- **Career Scope:** EV technology offers promising career paths in R&D, manufacturing, design, and energy systems.
- **Innovation Opportunity:** Students can contribute through startups, academic research, and community initiatives focused on sustainable mobility.

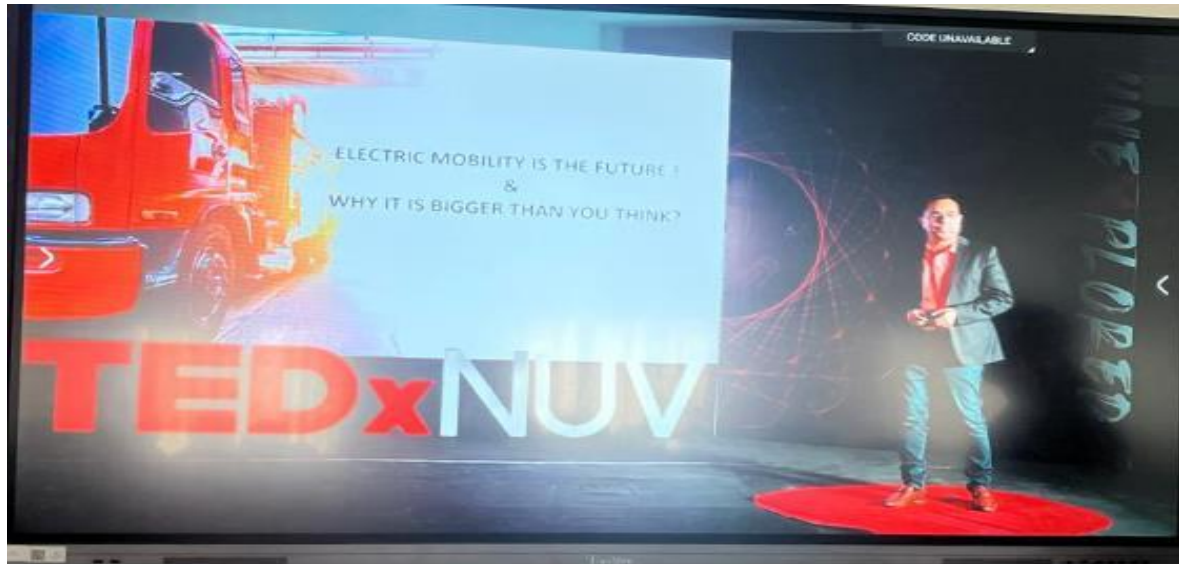
4. Outcome of the Session

Students gained a deeper understanding of the technological, environmental, and economic aspects of electric mobility. The discussion motivated participants to take up projects and research in the EV domain. The Q&A session further enhanced their practical awareness of industry trends and challenges in implementing EV infrastructure in India.

5. Conclusion

The TEDx Talk successfully promoted awareness and enthusiasm for electric mobility among students. It aligned with the department's mission of fostering innovation, sustainability, and applied learning. The Department of EEE expressed gratitude to Mr. Kartikey Hariyani for his inspiring session and to the faculty coordinators for organizing the event efficiently.

Pictures of the Event:





Department of Electrical & Electronics Engineering
TEDx Talk -Report 2025-26

Sem/Sec	Room Number Faculty Coordinator	Date	Time	Topic	Link
III/A&B	B-202 Prof.Kavitha.C H	14.10.2025	4.00pm- 5.00pm	Electric Mobility is the Future! Kartikey Hariyani TEDxNUV	https://www.youtube.com/watch?v=h22YyutqRJ0

NAME:	Tanisha D Patil
USN:	INH24EES11-T
SEMESTER/SECTION:	III 3 B
SIGNATURE OF STUDENT:	<i>Tanisha</i>

TEDx Talk Report

- * The TEDx event on Electric mobility is focused on innovations shaping sustainable transportation.
- * By Kartikey Hariyani highlights how electric vehicles can transform
- * He explains that while challenges like battery costs and charging infrastructure exist.
- * Kartikey urges people, industries, and governments to embrace electric mobility
- * Innovations & supportive government policies can solve these issues



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NAME:	Nayana . K. Shetty
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SIGNATURE OF STUDENT :	

TEDx Talk Report

The future is electric mobility : why it is a bigger game changer than we think ? An alumnus of LD College of Engineering (Ahmedabad) and Stanford Graduate School of Business , he is an entrepreneur by passion . Electrical mobility drastically reduces emissions . with zero tailpipe pollution , cities can breath again . Electrical motors are incredibly efficient converting more than 85% of electrical energy into movement , compared to only about 30 % of petrol engines . EVs promises economic empowerment . lower fuel costs , reduced maintainances . this isn't just good for the planet it's good for people too . This is how we build a circular , clean & resilient energy ecosystem .



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NAME: <u>A.SPOORTHY</u>
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SIGNATURE OF STUDENT : <u>Spoorthi</u>

TEDx Talk Report

The video features Kartikey Hariyani at TEDxNUV event. The main topic is the global shift to electric mobility. He asks why electric mobility is a bigger game changer than we think. He is an alumnus of LD college of engineering and Stanford graduate school of business. He is an entrepreneur in clean technology for over 20 years. He has focused on renewable energy, storage and supply chain sectors. He has founded TESCO energy, storage charge zone & BHK-CH2COTTAGE. The talk highlights transition from fossil fuels to electric-powered vehicles. His team works on making electric mobility mainstream in India. He discussed importance of energy storage for electric mobility. The session explains industry & consumer benefits of EV. It covers infrastructural challenges & emerging business opportunities. The event is part of TEDxNUV's efforts to bring innovative ideas to community.



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NAME: PRAGNYA PD
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TEDx Talk Report

The future is Electric Mobility: Why is it a bigger game changer than we think? An alumnus of LD College of Engineering and Stanford Graduate School of Business, he is an entrepreneur by passion and Engineer at heart, have built businesses in renewable energy, lithium ion storage and supply chain over past 20+ years. With ventures, TECSO energy, CHARGE ZONE and BILLION-ELECTRIC, each of them specializing in renewable energy, EV charging and commercial electric truck platform, Kartikey and his team are enabling energy transition from molecules to electrons. This talk was given at a TEDx event using TED conference format but independently organized by a local community.

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NAME: <u>Dhanyashree A.V</u>
USN : <u>INH245E039-T</u>
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SIGNATURE OF STUDENT : <u>Dhanyashree A.V</u>

TEDx Talk Report

★ "Electric Mobility is the Future!" by Kartikey Hariyani
 The Kartikey Hariyani emphasizes that electric mobility is a vital for a cleaner and sustainable future. He highlights electric vehicles, benefits - zero emissions and efficiency - while addressing challenges like cost and infrastructure. He urges collective efforts to adopt EV's for a greener, pollution - free world. Kartikey concludes by urging collective action from governments, industries and citizens to promote electricity mobility. His talk conveys a powerful message that embracing electric vehicle is not just a choice but a necessity for a sustainable and eco friendly future.