



## Dr. Vikas Nimesh

**Date of birth:** 23/05/1992 | **Nationality:** Indian | **Gender:** Male | **Phone number:**  
(+91) 8802625164 (Mobile) | **Email address:** [vikasnimesh@hotmail.com](mailto:vikasnimesh@hotmail.com) |

**Address:** 37, Ground Floor, Link Road, Lajpat Nagar III, 110024, Delhi, India  
(Work)

### WORK EXPERIENCE

01/04/2024 – CURRENT Delhi, India

**PRINCIPAL RESEARCH ASSOCIATE** ALLIANCE FOR AN ENERGY EFFICIENT ECONOMY (AEEE)

16/05/2022 – 31/03/2024 New Delhi, India

**SENIOR RESEARCH ASSOCIATE** ALLIANCE FOR AN ENERGY EFFICIENT ECONOMY (AEEE)

#### Responsibilities

- Lead project proposal development
- Identify and secure research funding
- Engagement with various state governments in drafting and enhancing EV policies
- Participate in talent acquisition
- Mentor junior team members
- Build stakeholder collaborations
- Organize workshops and conferences
- Author research reports and articles

#### Key Projects

1. Market Transformation of Electric 2 and 3 wheelers in India
2. Electrification of fleet transport in the Himalayas: focus on North-eastern India.
3. Transitioning to Green Mobility in Public Bus Space - A case Study of Uttarakhand
4. Retrofitting of EVs in Tripura
5. Developing the blueprint of EV Labs for Northeastern technical institutes
6. Developing roadmap for EV-centric ISBT in Meghalaya and Assam

01/04/2019 – 31/10/2021 Kharagpur, India

**LEAD RESEARCHER** INDIAN INSTITUTE OF TECHNOLOGY KHARAGPUR

1. Assessment of emissions from thermal power plants due to energy demand from electric vehicles: Policy recommendations for renewable energy integration, Indian Council of Social Science Research (ICSSR), Ministry of Human Resources and Development, Government of India.

01/08/2019 – 31/10/2021 Kharagpur, India

**RESEARCHER (ENERGY CONVERSION AND MANAGEMENT)** INDIAN INSTITUTE OF TECHNOLOGY KHARAGPUR

1. Comprehensive Development Plan (CDP) of Talcher Coalfields, Mahanadi Coalfields Limited (MCL), Government of India.

### EDUCATION AND TRAINING

02/01/2018 – 27/04/2022 Kharagpur, India

**DOCTOR OF PHILOSOPHY (PHD)** Indian Institute of Technology Kharagpur

**Address** 721302, Kharagpur, India | **Field of study** E-mobility | Transportation |

**Thesis** A Methodology to Assess the Demand and Impact on Energy and Environment

01/07/2015 – 01/05/2017 Kharagpur, India

**MASTER OF TECHNOLOGY (M.TECH)** Indian Institute of Technology Kharagpur

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**Address** 721302, Kharagpur, India | **Field of study** Infrastructure Design and Management

01/07/2011 – 01/05/2015 New Delhi, India

**BACHELOR OF TECHNOLOGY (B.TECH)** Delhi Technological University

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**Address** 110042, New Delhi, India | **Field of study** Mechanical and Automotive Engineering

## ● **SKILLS AND EXPERTISE**

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### Expertise

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Sustainability Management | Public Policy | Electric Vehicles Adoption Planning | Transportation Planning | Environment Impact Assessment | Emission Modelling | Lifecycle Assessment

## ● **LANGUAGE SKILLS**

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Mother tongue(s): **HINDI**

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
ENGLISH	C2	C2	C2	C2	C2

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

## ● **PUBLICATIONS**

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### Journal Publications

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1. **Nimesh, V.**, Bs, M., Bhaduri, E., Reddy, V. M., & Kishore, A. (2024). *Estimating personal electric vehicle demand and its adoption timeframe: A study on consumer perception in Indian Metropolitan cities*. WCTR (Accepted to publish)
2. Kumar, M., Karmakar, S., & **Nimesh, V.** (2024). Statistical investigation of combustion and emission characteristics of biofuels according to their physical properties: A way to explore suitable alternative fuels. *Fuel*, 358, 130242.
3. **Nimesh, V.**, Kumari, R., Soni, N., Reddy, V. M., and Goswami, A. K. (2021), "Implication viability assessment of electric vehicles for different regions: An approach of life cycle assessment considering exergy analysis and battery degradation", *Energy Conversion and Management*, 237C (2021) 114104, doi: 10.1016/j.enconman.2021.114104.
4. **Nimesh, V.**, Sharma, D., Reddy, V. M., and Goswami, A. K., "Implication viability assessment of shift to electric vehicles for present power generation scenario of India," *Energy*, 2020, doi: 10.1016/j.energy.2020.116976.
5. Soni, N., Sharma, D., **Nimesh, V.**, & Reddy, V. M. (2022). Solar energy assisted thermal treatment model to decontaminate airborne viruses in hospital. *Thermal Science and Engineering Progress*, 36, 101516.
6. Prakash, K., **Nimesh, V.**, Hussain, M.S., Goswami, A.K., (2019). "Study of Ambient Air Quality on Transport Road of Coal Mines – A case of Talcher mining region", *Indian Journal of Environmental Protection*, vol. 40, no. December, pp. 1247–1254, 2021.
7. Hussain, M.S., Kumari, R., **Nimesh, V.**, Goswami, A.K. (2021). "Assessing Impact of Urban Street Infrastructure on Pedestrian Safety Perception", *Proceedings of the Institution of Civil Engineers journal Urban Design and Planning* 174 (2): 76-84.

### Conference Proceedings

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1. **Nimesh, V.**, Kumari, R., Reddy, V.M., Goswami, A.K. (2019). Assessment of Emission Implications of Introducing Electric Vehicles in India on the Non-Renewable Energy Sector, CTRG 2019
2. **Nimesh V**, Hussain MS, Sen J. (2018) Strategies for Augmenting Socio-Economic Infrastructure around Greenfield Airport-A Case of Dholera International Airport. Urban. Challenges Emerg. Econ., n.d., p. 530–41. doi:10.1061/9780784482025.054.
3. Kumari, R., **Nimesh, V.**, Goswami, A.K. (2020). Assessment of Spatial and Temporal Dynamics of Air Quality and Commuter Exposure: A Comparative Study of Tier 2 & Tier 3 Indian cities, ASCE 2020.

## Whitepapers/Reports

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1. **Nimesh, V.**, Suhaag, V., Hussain, M.S., Jain, A., & Kumar, P. (2024). Assam State Transport Corporation (ASTC) – Roadmap for Electrification of Bus Fleet. New Delhi: Alliance for an Energy Efficient Economy (AEEE)
2. **Nimesh, V.**, Hussain, M.S., Jain, A., & Kumar, P. (2024). Electrification and Inclusivity: Comprehensive Business Models for Sustainable Mobility. New Delhi: Alliance for an Energy Efficient Economy (AEEE)
3. **Nimesh, V.**, Suhaag, V., Hussain, M.S., Jain, A., & Kumar, P. (2024). Exploring Skill Development Prospects Within the Electric Vehicle (EV) Ecosystem. New Delhi: Alliance for an Energy Efficient Economy (AEEE)
4. **Nimesh, V.**, Hussain, M.S., Jain, A., & Kumar, P. (2024). Assessing Transport Patterns and Local Transport Routes in Assam and Meghalaya. New Delhi: Alliance for an Energy Efficient Economy (AEEE)
5. Gadepalli, R., Bhand, I., **Nimesh, V.**, Kumar, L., Natarajan, B., Sasidharan, C., Patil, A., Dhok, D., Nandy, R. (2022). Towards climate-responsive and low carbon development: addressing the critical urban issues in residential and transport sector in Uttarakhand. New Delhi: Alliance for an Energy Efficient Economy (AEEE)
6. **Nimesh, V.**, Natarajan, B., Pattanaik, S., Sprayregen, M., (2023). "Customer Engagement – A tool for Utility driven for Utility Demand Side Management." New Delhi: Alliance for an Energy Efficient Economy.
7. **Nimesh, V.**, Natarajan, B., Hussain, M.S., & Kumar, H. (2023). Catalysing the Market Transformation of Electric 2-Wheeler — Insights from Consumers and Stakeholders. New Delhi: Alliance for an Energy Efficient Economy (AEEE)
8. **Nimesh, V.**, Natarajan, B., Patil, A., Jain, A., & Kumar, H. (2023). Catalysing the Market Transformation of Electric Three-Wheelers in India. New Delhi: Alliance for an Energy Efficient Economy (AEEE)

## ● HONOURS AND AWARDS

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01/02/2023

**Employee of the year – Alliance for an Energy Efficient Economy (AEEE)**

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01/01/2022

**International Travel Grant – Indian Institute of Technology of Kharagpur**

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02/01/2018

**Research Fellowship (SRF/JRF) – Ministry of Human Resources and Development (MHRD)**

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01/07/2015

**GATE Fellowship for M.Tech – Ministry of Human Resources and Development (MHRD)**

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