



African Urbanites' Low-Carbon Mobility Paradigm Adoption: A Theoretical Framework for Cairo's Context

Mazen Gharib^{1,2}, Ahmed El-Masri^{3,4}, Wafa Sharafat^{2,3}, Hussein Fathi^{5,6}

¹ Benha University

² Department of Interdisciplinary Studies, Al-Azhar University

³ Mansoura University

⁴ Al-Azhar University

⁵ Academy of Scientific Research and Technology (ASRT)

⁶ Department of Advanced Studies, Al-Azhar University

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Correspondence: mgharib@hotmail.com

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Author notes

Mazen Gharib is affiliated with Benha University and focuses on Energy research in Africa.

Ahmed El-Masri is affiliated with Mansoura University and focuses on Energy research in Africa.

Wafa Sharafat is affiliated with Department of Interdisciplinary Studies, Al-Azhar University and focuses on Energy research in Africa.

Hussein Fathi is affiliated with Academy of Scientific Research and Technology (ASRT) and focuses on Energy research in Africa.

Abstract

Urban residents in Cairo, Egypt are increasingly focusing on low-carbon mobility solutions to reduce carbon emissions and improve air quality. A mixed-method approach incorporating qualitative interviews and quantitative surveys will be used to understand attitudes, barriers, and preferences towards these solutions. The theoretical framework provides insights into facilitating wider low-carbon mobility uptake in Cairo. Public policy should focus on lowering EV purchase costs and enhancing public transit connectivity to accelerate adoption. The empirical specification follows $Y = \beta_{0+\beta}^{-} p X + \text{varepsilon}$, and inference is reported with uncertainty-aware statistical criteria.

Keywords: *African Geography, Urbanization, Sustainable Transport, Carbon Footprint, Mobility Studies, Mixed Methods, Environmental Economics*

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