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Mohammed S. Almogarry

King Saud University College of Humanities & Social Sciences,
Riyadh Saudi Arabia

The expected environmental impact of the King Abdulaziz Public Transport Project in Riyadh on the level of air quality

Abstract: This paper studies King Abdul-Aziz Public Transport Project (KAPTP) in Riyadh, which is currently being implemented. It is anticipated to reduce air pollution and improve air quality by 2030. Transportation is undoubtedly one of the fundamental pillars of sustainable development; however, it is also one of the most significant sources of air pollution. The study's main objectives include identifying the current state of air pollution in Riyadh, reviewing the authority's efforts to improve air quality, estimating the population size and expected daily trips in 2020 and 2030, and determining the project's expected effects on air quality in Riyadh.

According to the study's findings, Riyadh's population will be approximately 7.8 million in 2020 and 10.4 million in 2030. More than (9) million daily travels are anticipated in 2020, and more than (12) million daily journeys are anticipated in 2030. Additionally, it is anticipated that the KAPTP's deployment will begin in 2022. Additionally, it is anticipated that after the project is operational, 20% of daily trips would change, and that this percentage will rise to 25% in 2030. As a result, once the project is operational, it is anticipated that air pollution will decrease by roughly 30%, increasing to about 40% in 2030. The study recommends developing a comprehensive media plan to prepare the community, promote its use of public transportation, study public transport tariffs, and encourage the use of public transportation by imposing fees for the use of roads and parking lots.

Biography: Mohammed Almogarry has completed his PhD at the age of 33 years from Indiana University at Bloomington, Indiana USA.. He is Associate Professor in Transportation geography, at Geography Department in King Saud University, Riyadh, Saudi Arabia. He has published more than 31 papers in peer-reviewed journals and has published 9 books. He won 3 awards. He worked as a consultant for 2 years at King Khalid Award. He has been an advisor or referee for 52 PhD or Master Theses.