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Solar assisted-electric rickshaw construction and assessment

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In recent times, electric vehicles (EVS) are becoming more commonplace in transportation sector, and the reasons behind this are many. The most eminent one is their contribution in reducing greenhouse gas (GHG) emissions. However, battery recharging and range anxiety have been the Achilles heel of electric vehicle due to the low density and high mass of batteries in comparison with fuel. Therefore, initiatives and analysis focused on electric vehicles integration powered by renewables is currently a desirable solution to shift away from these problems. Under this framework, this thesis proposes a development and evaluation of an electric rickshaw (also known as tuk tuk in Portugal) as an alternative to conventional rickshaws to assists in the batteries recharging.

The goal is to investigate the impacts of the overall performance of solar technology on an electric rickshaw and its benefits in terms of savings.

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