

The International Conference on Renewable Energy, Climate Change and Ecosystem Restoration (ICRECC-2025)

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CARBON MITIGATION

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ABSTRACT

Climate change poses one of the most pressing challenges of our time, driven predominantly by increased concentration of Carbon Dioxide, CO₂, and other greenhouse gases (GHGs) in the atmosphere. This manuscript explores various strategies for carbon mitigation. Addressing the road for immediate action to reduce emissions and enhance carbon sequestration. We delve into the role of renewable energy, energy efficiency, sustainable transportation, reforestation, carbon capture and Storage, the (CCS), and policy frameworks that foster collective action, the document aims to provide a consolidated overview of the current methods challenges and the importance of an integrated approach to achieve a global climate target.

KEY NOTE/ KEY RECORD

Provide a brief description of your project

Docklands enterprises is dedication its time and efforts to tackle the effects of climate change by leveling the power of science and technology on ecosystem restoration with intricate technical details of carbon ratio science of which we carryout periodical operation in the laboratory to oversee collections and analysis of the sample collected to measure carbon levels stored in different decaying matter soils and vegetation's, these are then qualified by measuring each carbon pool individually with a mission to restore land to at least its functional state and to a scale that can reverse the damages of climate change and ecosystem biodiversity less with the local community at helm, to lead innovate and make tangible impacts in Kenya and globally.

INTRODUCTION
Climate change is not merely an environmental, it concerns an existing threat that affects the eco system, the economies and the communities worldwide. The Inter-governmental Panel on Climate Change (IPCC) asserts that to limit global warming to 1.5°C above pre-industrial levels by around 2050, achieving this goal necessitates a multifaceted approach to carbon mitigation.

Author: LANG'O, ENOCK (DOCKLANDS ENTERPRISES)

Co-authors: Mr MUTUKU, Brian (speaker); ADHIAMBO, lizzy (DOCKLANDS ENTERPRISES)

Presenter: Mr MUTUKU, Brian (speaker)

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