



Biochar Production Innovations in Northern Ghanaian Secondary Schools: An Eco-Friendly Perspective

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Published: 21 April 2002 | **Received:** 07 January 2002 | **Accepted:** 05 March 2002

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DOI: [10.5281/zenodo.18746659](https://doi.org/10.5281/zenodo.18746659)

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Abstract

Biochar production has gained attention for its potential in carbon sequestration and soil improvement. A structured approach was employed to assess the feasibility and efficacy of various biochar production techniques used by students. The implemented eco-friendly practices not only improved soil quality but also fostered environmental stewardship among students. Further research should be conducted to scale-up these innovations and integrate them into broader educational curricula. The empirical specification follows $Y = \beta_{0+\beta} X + \text{varepsilon}$, and inference is reported with uncertainty-aware statistical criteria.

Keywords: *Sub-Saharan, Charcoal Science, Pyrolysis, Carbon Sequestration, Pedology, Sustainability Models, Biomass Conversion*

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