



# CCUS in Nigerian Fossil Fuel Plants: An Ethnographic Exploration

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## Abstract

Carbon Capture, Utilization, and Storage (CCUS) is a critical technology for reducing greenhouse gas emissions from fossil fuel plants, particularly in countries with significant coal or oil reserves such as Nigeria. The study employs a qualitative approach involving semi-structured interviews, focus groups, and document analysis among key personnel from oil and gas companies, government agencies, and environmental NGOs in Nigeria. Local perceptions indicate that CCUS could be integrated into existing infrastructure with significant support from the Nigerian government but face challenges related to initial investment costs and technological feasibility. Despite initial concerns, local stakeholders see potential for CCUS as a viable pathway towards sustainable energy development in Nigeria. Government policy should focus on incentivizing private sector participation through tax breaks or grants while also providing technical assistance and capacity building programmes. The empirical specification follows  $Y = \beta_{0+\beta} X + \text{varepsilon}$ , and inference is reported with uncertainty-aware statistical criteria.

**Keywords:** *Sub-Saharan, Niger Delta, Ethnography, Induction, Anthropology*

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