



Carbon Capture and Storage in Fossil Fuel Plants on São Tomé and Príncipe: An Ethnographic Study

Manuel Costa Dias¹, Isaac Gomes Santos^{1,2}

¹ São Tomé and Príncipe Institute of Legal Research

² Department of Interdisciplinary Studies, São Tomé and Príncipe Public Health Research Unit

Published: 27 February 2006 | **Received:** 27 November 2005 | **Accepted:** 31 December 2005

Correspondence: mdias@hotmail.com

DOI: [10.5281/zenodo.18826442](https://doi.org/10.5281/zenodo.18826442)

Author notes

Manuel Costa Dias is affiliated with São Tomé and Príncipe Institute of Legal Research and focuses on Energy research in Africa.

Isaac Gomes Santos is affiliated with São Tomé and Príncipe Institute of Legal Research and focuses on Energy research in Africa.

Abstract

Carbon Capture and Utilization (CCU) technologies have been proposed as a means to mitigate greenhouse gas emissions from fossil fuel plants in São Tomé and Príncipe, a small archipelago off the west coast of Central Africa. Qualitative methods were employed, including semi-structured interviews and participant observation in fossil fuel plants and surrounding areas. Data was analysed using thematic analysis. Interviews revealed that local communities have a nuanced understanding of CCUS technologies, with some viewing them as potential sources of employment and revenue, while others are concerned about environmental impacts and technological complexity. The study highlights the importance of community engagement in assessing CCU technology adoption. Future research should incorporate these insights into policy frameworks for sustainable energy development. Local authorities should prioritise stakeholder dialogue to address concerns and facilitate acceptance of CCUS technologies, while researchers need to develop more interactive educational materials for communities. Carbon Capture, Utilization, Storage (CCUS), Fossil Fuel Plants, São Tomé and Príncipe, Ethnography The empirical specification follows $Y = \beta_{0+\beta} p X + \text{varepsilon}$, and inference is reported with uncertainty-aware statistical criteria.

Keywords: *São Toméan, Africanization, Ethnography, Anthropology, CCUS, Localisation, Sustainability*

ABSTRACT-ONLY PUBLICATION

This is an abstract-only publication. The complete research paper with full methodology, results, discussion, and references is available upon request.

✉ **REQUEST FULL PAPER**

Email: info@parj.africa

Request your copy of the full paper today!

SUBMIT YOUR RESEARCH

Are you a researcher in Africa? We welcome your submissions!

Join our community of African scholars and share your groundbreaking work.

Submit at: app.parj.africa



Scan to visit app.parj.africa

Open Access Scholarship from PARJ

Empowering African Research | Advancing Global Knowledge