



Analysis of Modeling and Simulation of Power Transmission Networks in West Africa in South Africa: An African Perspective

Tracey Stevens¹

¹ University of KwaZulu-Natal

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Correspondence: tstevens@hotmail.com

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Author notes

Tracey Stevens is affiliated with University of KwaZulu-Natal and focuses on Engineering research in Africa.

Abstract

This study addresses a current research gap in Engineering concerning Modeling and Simulation of Power Transmission Networks in West Africa in South Africa. The objective is to clarify key debates, identify practical implications, and outline a focused agenda for scholarship and policy. A mixed-methods design was used, combining survey and interview data collected over the study period. The analysis indicates persistent structural constraints alongside emerging local innovations; however, evidence remains uneven across contexts and sectors. The paper argues for context-specific approaches and stronger empirical foundations in future research. Stakeholders should prioritise inclusive, locally grounded strategies and improve data transparency. Modeling and Simulation of Power Transmission Networks in West Africa, South Africa, Africa, Engineering, original research. This structured abstract provides a standardised summary to support rapid screening, indexing, and assessment of scholarly contribution.

Keywords: *Modeling and Simulation of Power Transmission Networks in West Africa, South Africa, Africa, Engineering*

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