

DURBAN UNIVERSITY OF TECHNOLOGY INYUVESI YASETHEKWINI YEZOBUCHWEPHESHE

Department of Electrical Power Engineering

Postgraduate Research Candidate



#	Student Name / Surname	AYODEJI STEPHEN AKINYEMI	Start Date	2019	Supervisor	Dr. M. Kabeya
	Title of Project	Voltage Rise Mitigation at the Point of Common Coupling of Large Renewable Distributed Generation and Distribution Network	Completion	2022	Co-Supervisor(s)	Prof. I.E Davidson
	Program of Study	D Eng.				
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	Synopsis of Research Project: (< 300 words) A lot of changes are taking place in a power system as a result of the introduction of renewable distributed generation. Gra- electricity generated by fossil fuel is being replaced by electricity generated from renewable energy sources, small generato connecting to the distribution system are replacing large generator units connected to the transmission system. The splint generation, transmission, and distribution system, depending on each country, has brought competition in the market. The gene assets are no longer owned by one or a few owners, but a lot of investors have entered the electricity market. Individuals ca generate their own electricity using small combine heat and power, rooftop solar panels, and small wind energy converters, to m a few. It is obvious that all these changes have an impact on the power system. The introduction of a Renewable Distributed Gene (RDG) into the distribution network will have impacts on the voltage profiles, overvoltages with the use of centralised large generating units are traditionally of less concerned, the introduction of RDGs into a distribution network has eliminated the is excessive voltage drop while an overvoltage/voltage rise is now the major concerned due to the injection of active and reactive p The research work will focus on the mitigation technique of voltage rise at the Point of Common Coupling without disconnec Large Renewable Energy connected to a Distributed network using Pulse Width Modulation (PWM)					