

TABLE OF CONTENTS

1.	Urban Studies and Electricity Use Planning in the Developing World	
1.1	Development Research and the City	7
1.2	Electricity Use and African Cities	11
1.3	The Remarkable Growth of Ghana’s Capital City	14
1.4	Research Objective	17
2.	Modeling the City	
2.1	The Science of the City	19
2.2	Platforms for Modeling Cities	22
2.3	Modeling Electricity Infrastructure	26
3.	The Physical and Human Geographic Patterns of Accra	
3.1	An Introduction to Accra	34
3.2	Greater Accra’s Physical Geographic Patterns	35
3.3	Greater Accra’s Human Geographic Patterns	46
4.	Electricity Infrastructure and Demand in Accra	
4.1	Powering Megacities in the Developing World	57
4.2	Electricity Supply in Ghana	58
4.3	Electricity Demand in Accra.....	62
5.	The Greater Accra Urban Simulation - Korle Bu District	
5.1	Urban Simulation System Described	71
5.2	Datasets	75
5.3	Models	80
5.4	Electricity Demand Projections	89
	Conclusion	95
	Appendix	97