



ELECTRIFICATION PLANNING REPORT: THE PROCESS, THE CONTENT AND THE END RESULT

Presenter : M.N. Khumalo

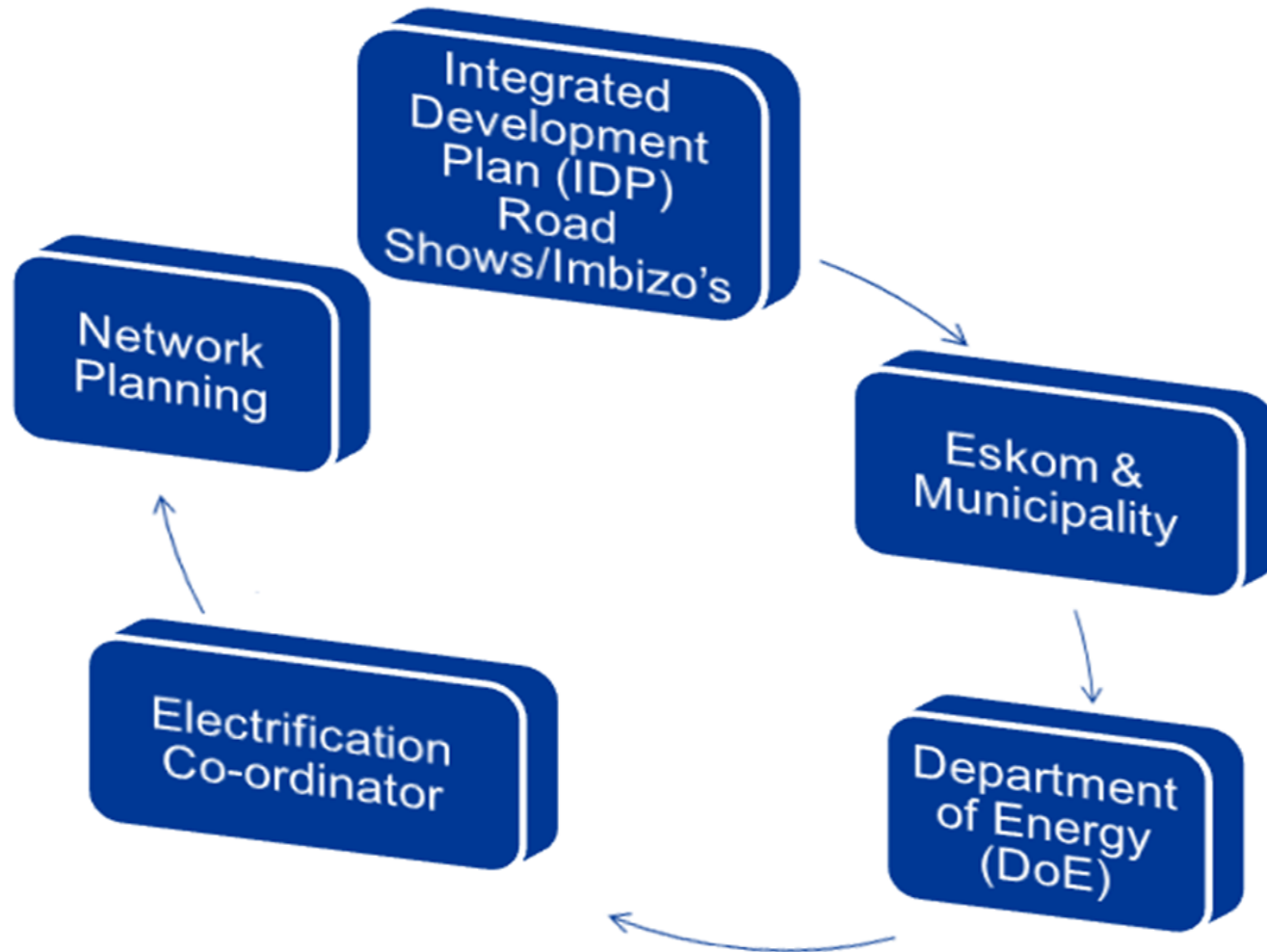
Occupation : Distribution Network Analyst

Date : 08 October 2013

- Background on Electrification
- The Process
- The Content of the Report
- The End Result
- Questions

- The South African President's address
- The Government's Intention
- Eskom's Mandate
- Network Planning's Responsibility

THE PROCESS INVOLVED



THE PROCESS continued



Date:
04 June 2013

Enquiries: Mikie Kumalo
Tel +27 33 395 3770

Electrification Project: Network Planning Report

(Sikhulu electrification area REV2)

PROJECT SUMMARY

- No. Connections: 350
- Feeder and TRFR detail: Ingeli NB1 near TGG25
- GPS Co-ordinates: 29°41'46.1"E 30°25'33.33"S
- Income Level: 0 to 750
- Network Constrained Status: Not Constrained
- Existing Customer Base: 6571

ADMD, HERMAN BETA, AND MV SYSTEM PARAMETER CALCULATION & ASSUMPTIONS

Elect. Proj. Name: Sikhulu REV2

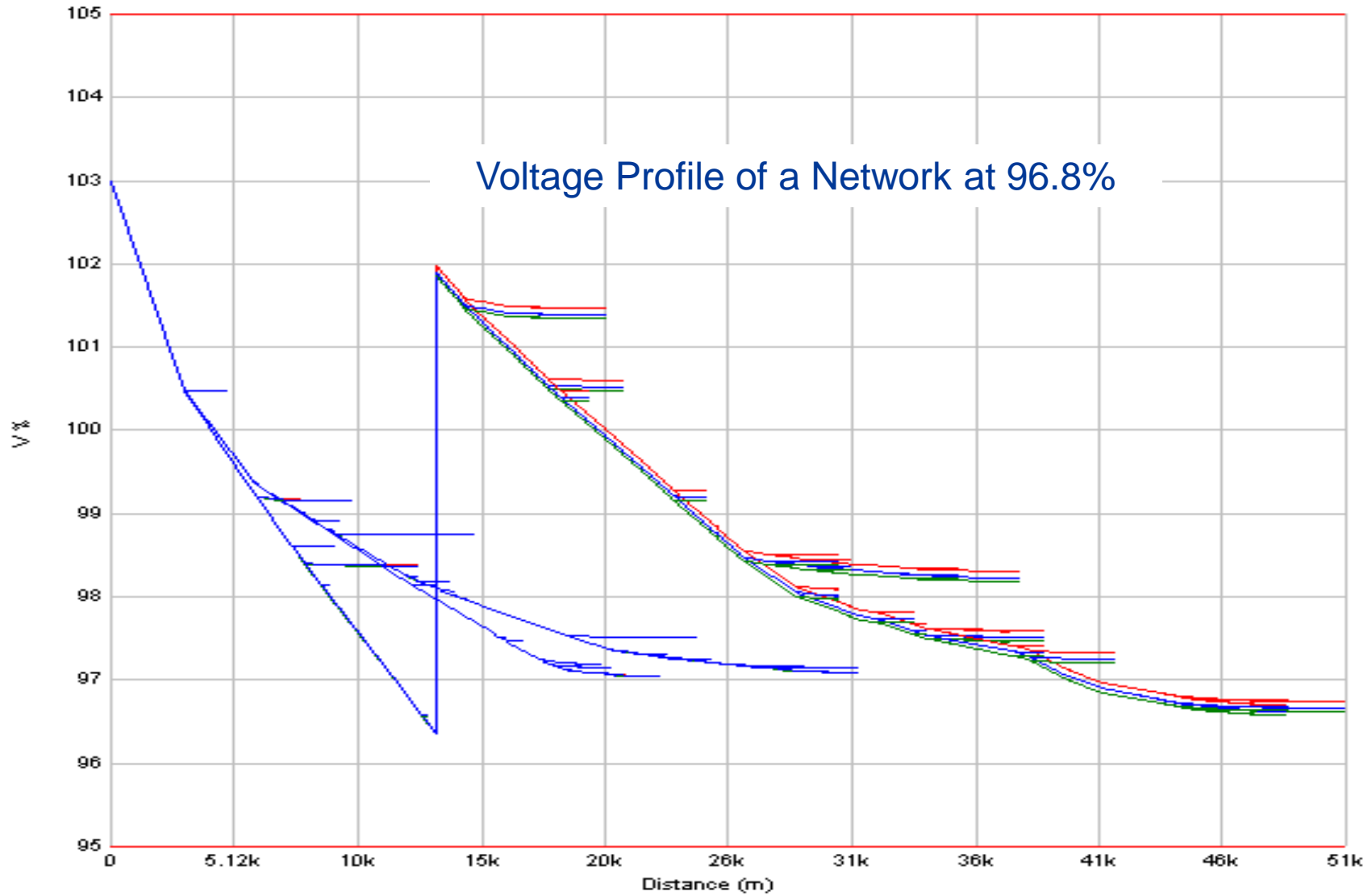
Classification: Rural Settlement

Parameter	Final (year 15)
ADMD (kVA)	1.0
Alfa parameter	0.461
Beta parameter	1.661
Circuit Breaker Size	20
Statistical Current	AMEU
Network Classification (C1=102%, C2=98%, C3=95.5%, C4=92.5%)	C2
Maximum allowable LV Volt drop	7.5%

Table 1: Calculated ADMDs, Herman beta parameters and MV system voltages.

Recommendation

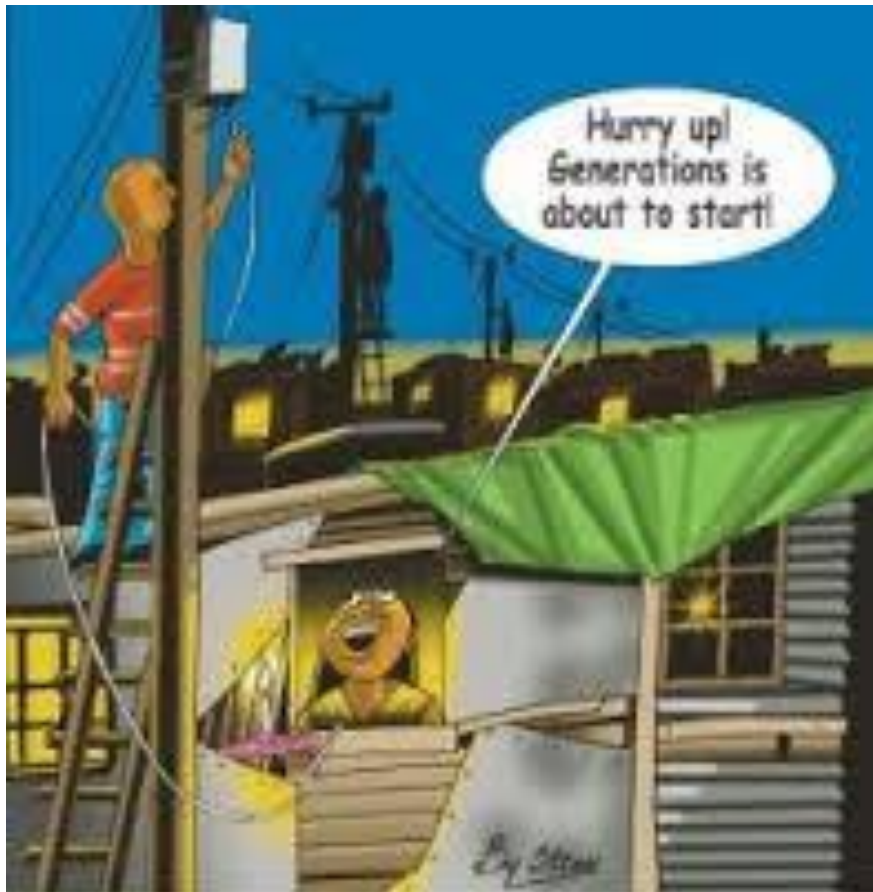
This project **may** go ahead.



ELECTRIFICATION APPROVED

- Job Creation
- Economic Growth
- Community Development

ELECTRIFICATION NOT APPROVED



- Socio economic issues
- Political issues
- Eskom not delivering
- Illegal connections



Thank You