DEEP RURAL ELECTRIFICATION
PRESENTER: MOHAMED PEER
Currently Working GIBB Engineering & Science - Sector Unit Manager for POWER AND ENERGY for the Eastern Region which covers Eastern Cape and KZN
PURPOSE OF PRESENTATION

HIGHLIGHT

• OPPORTUNITIES
• CHALLENGES
• BASIC SKILLS
• TRAINING
• SAFETY
• FUNDING
OPPORTUNITIES

- DEPARTMENT OF ENERGY – INEP
- BACKLOG OF 3.4MILLION HOUSEHOLDS
- BACKLOG OF SCHOOLS AND CLINICS
- DEVELOPER PROJECTS
- JOB CREATION
CHALLENGES

• ACCESS TO HOUSEHOLDS
• CONSTRUCTING INFRASTRUCTURE
• DESIGN CRITERIA
• UP TO DATE AREA IMAGES
• DIFFERENT STRUCTURE STANDARDS
• POLITICAL INTERFERENCE
• OUTAGES
• PLANNING REPORTS
• LACK OF SKILLED SURVEYORS
Typical deep rural village near Port St Johns
Typical access problems in terms of line routes
NGCISININDE PHASE 2
RURAL ELECTRIFICATION PROJECT
Contract No: MNQ/SCM/03/12-13

Funder / Umxhasi Ngemali
Department of Energy

Client / Umqeshi
Mnquma Local Municipality

Consulting Engineers / Iinjiniel Ezicebisayo
GIBB (Pty) Ltd

Contractors / iikontrakA
A1 Electrical Contractors

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End product
Supply to a New School
Live line connection to a School
New schools
900m span strung with a helicopter

Fritz leading the risk assessment and safety talk with everyone present
BASIC SKILLS

• Skills Program- Electrical line worker
• Operator training for overhead lines
• LV Operating and Fault Finding
• HV Regs
TRAINING

• Training is a good policy to invest in.
• Creating a pool of readily available and adequate replacements.
• Enhancing the company's ability to adopt and use advances in technology due to sufficiently knowledgeable staff.
• Increased productivity.
• Increased efficiency resulting in financial gains.
• Decreased need for supervision.
SAFETY

• Health and Safety file – Job specific
• First Aid
• Fire Fighting
• Environmental issues
WHERE WE ARE

• 36% households where electrified pre 1994
• 76% of population reached
• 5.7m households connected between 1994 and 2012 with approx. 3.2m still to be connected.
• 30% connected in sub-Saharan countries
• R675m earmarked for schools
• In terms of funding we are dependent on the DoE
Conclusion

• Creating opportunity in developing local people, but the difficulty maintaining the opportunity pipe line.

• Currently focus is on grid electricity, but a lot of the technical challenges could be overcome by off grid localized solution.
Thank You!

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Note:
This will be your last slide: Add contact details and preferably leave this slide up during the question sessions. Do not say “Questions or Thank you” with an unrelated picture.

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