Summary of 2009 Convention Proceedings

Peter Fowles
30 September 2009
2009 Champions???
Affiliates Sports Day

• Golf, Bowls and a hike
• Much fun
• Sports prize giving and dinner at Happy Valley
• Many thanks to Affiliates
Opening Session

• Scene set by the lovely music of Professor Albert Troskie and the EP Childrens’ choir
• Welcome by our President
  – Stressed the many issues to be addressed
• Minister Ms Dipuo Peters - keynote address
  – How to deal with the R27bn backlog?
  – Call to introduce stepped tariffs – the more you use......
  – Introduce 1million SWH by 2014
  – No rapid tariff increases
Opening Session

• Warm welcome by Councillor Ntunzi Tokota
  – NMBM to establish an energy efficiency Department
  – REDs have experienced FATIGUE – technical issues to be resolved
  – Well prepared for WC 2010

• 62nd Convention 2010 – invitation from Cllr Mgijima of Stellenbosch Municipality

• Honorary membership conferred on Sandile Maphumulo and Johan Nel
1st Session – Day 1: Asset Management

- Hugo Mostert - Interface between the business and the system that you use
  - Gap between financial and asset systems
  - Best system will fail if do not understand building blocks
  - Top management must be involved
The Association of Municipal Electricity Undertakings (Southern Africa)

1st Session – Day 1: Asset Management

• Dwayne Baker & Danie van Wyk - Policy on engineering contributions
  – Recovery of shared infrastructure capital
  – All munics should adopt an engineering services contribution policy
  – Use the services agreement to enforce
  – NRS069 provides clear guideline
  – Development will only be sustainable with effective contributions
Xolani Lembede - Reinventing Old Grids – Taking Steps to Assess Against Risk Failure

- Currently pressure to restore supply – no analysis of incident[s]
- Need to analyse the cause of the problem
- Should result in a refurbishment/replacement plan
- Resulted in a significant decrease in unplanned maintenance [95% to 5%]
2nd Session – Day 1: New Technology

• Chris de Kok - Compact substations solutions
  – Use of mixed technology switchgear [MTS]
  – Combination -AIS [conventional] & GIS [compact]
  – Higher flexibility of substation layout

• Andy Stoner - The evolution of pre-paid metering and load control systems
  – Needs of stakeholders and utilities
  – Max convenience and minimum hassles
  – Protect investments and keep costs down
2nd Session – Day 1: New Technology

- Willie van Wyk - The application of modern technology in power quality management
  - A practical web based PQ management system
  - Lack of skills forces us into using tools and procedures
  - Young industry but old equipment
  - Warning that PQ will become of increasing importance
  - Automatic retrieval of data via a PQ portal
Coetzee van Heerden - Bushing failures in medium voltage switchgear
- SF6 MV switchgear failures – major damage
- Not arc quenching medium – PD on bushings
- Recommendations for early detection of PD activity
Final Session – Day 1: System Performance

• Lucky Ngidi – Implementation of the Distribution Grid Code
  – Set out obligations of participants regarding the use, development and operation of the DS
  – No enforcement of codes as not yet licence condition
  – Distributors >100MVA to comply by Non 2009
  – Phase 2 – will workshop with ≥50≤100MVA
  – Compliance for good of business
Social Activities – Day 1

• Ladies treated to a most enjoyable day at Arlington Race Course – thanks to Powertech
  – Motivational talk by Karen Kelly followed watching the horses race
  – and a little fashion advice from Karel Leerink

• Well attended Civic Reception at the Feather Market Centre hosted by the NMBM
  – Wonderful food
  – Painted faces and lovely drum music
1st Session – Day 2: Management in a Municipal Environment

• Sicelo Xulu - Challenges of providing energy infrastructure in a big City
  – Need to expand their infrastructure to support growth
  – 5 year infrastructure rolling plan – systematic and structured
  – Positively contributed to poverty alleviation
  – Success but still lot of challenges; lack of resources, technology and service delivery protests
1st Session – Day 2: Management in a Municipal Environment

- Adrian Vermaak - Skills development and staff retention
  - Alarming loss of skills to RSA
  - Money is not the primary motivator
    - Must create right environment where people want to stay – a Culture of Learning
    - Mechanisms that develop staff
  - Can make a difference if we are positive
1st Session – Day 2: Management in a Municipal Environment

• Jason Smith - Telemanagement of public street lighting infrastructure
  – GG31250 forcing better means of controlling street lighting
  – Telemanagement can provide that control

• Ron Millard - Non Technical Losses – How do other countries tackle the problem?
  – Solutions are culture dependent
  – Get attention when it given a high priority
1st Session – Day 2: Management in a Municipal Environment

- Robert Koch - Emergency load reduction and system restoration practices (NRS 048-9)
  - National protocol for managing
    - System constraints [load shedding and/or curtailment]
    - Blackout – load and system restoration
  - Definition of critical and essential loads
  - System adequacy reports [AMEU web link]
  - Crucial issue around facilitating predictability
Alan Palmer - Managing municipal energy efficiency through voltage power optimisation

- Eliminates energy waste on the incoming power
- Not merely a reduction in volts
- Supplies an optimum supply voltage resulting in energy saving
Willem Du Toit - The role of human behaviour versus organisational and legislative standards in electrical incidents

- Current H & S approach gives little cognisance of human risk behaviour
- Risk behaviour influenced by individuals perception of risk
- Strong cultural influences on perception of risk and subsequent risk taking behaviour
2nd Session – Day 2: EDI restructuring update

• Willie de Beer - Practical perspective of the RED Business Model
  – Industry in its current format not sustainable
  – Environment is ready for the EDI restructuring

• Sandile Maphumulo - SALGA NMA resolutions on the EDI restructuring process
  – Reaffirmed commitment to restructuring
  – AMEU to provide technical input on LG negotiations
Final Session – Day 2: Safety Briefings

- Dwayne Baker – our responsibility for civil contractors
- Roy Wienand – MV switchgear failure
- Rob Ferrier – safety and regulations
- Barry Gass - safety operations on medium voltage switchgear
  - Can't put a price on safety
  - Not thinking what they are doing
  - WAY of LIFE
Social Activities – Day 2

• Ladies started their day with a train ride – thanks to CBI Electric
  – Took the Apple Express train to Chelsea
  – Posed for photos
  – Returned for a fun show at the Uptown Theatre

• Gala Evening at the Kwantu Towers
  – Broadway theme
  – Mrs von Memerty
1st Session – Day 3: 2010 World Cup

• Tommy Edmondson & Clinton Cater-Brown - an assessment of the specification and readiness of the stadia electricity supplies
  – Stringent lighting quality requirements
  – Warning to be prepared for overlay supply

• Sicelo Xulu & Sanjay Bhana - Lessons for 2010 tournament from 2009CC experience
  – Much local planning/coord via the RTT
  – Risk management approach for 2010
1st Session – Day 3: 2010 World Cup

- Teresa Carolin - risks to the electricity supply for the 2010 tournament – national capacity outlook
  - Our role is essential for the success of the event
  - No maintenance planned and adequate capacity for period of tournament
  - ‘Anything can happen’ and all must plan to deal with unexpected events
2nd Session – Renewable energy and energy efficiency

- Wikus van Niekerk - Renewable Energy in South Africa: Resources, Research and Projects
  - Number of projects to map renewable energy resources - 10 000GWh by 2013 (White Paper)
  - REFITs will stimulate the sector
2nd Session – Renewable energy and energy efficiency

• Liteboho Makhele – climate change risks and opportunities for the EDI
  – No longer a “fringe” issue
  – Responses are part of the `energy revolution’
  – Investors now requiring reports – Carbon Disclosure Project (CDP)
  – Will impact on how utilities will operate
  – 2c/kWh levy on non-renewable generation
2nd Session – Renewable energy and energy efficiency

• Neil van der Merwe - The role of renewable energy legislation in promoting the acceptance of renewable energy into society
  – Need for renewable energy and reasons for RSA lagging countries like Germany
  – South Africa has policy in the 2003 White Paper but some anomalies in implementation
  – Need an Act of Government that mandates RE
  – Mandatory connection of RE to grid
Thank you

• Thank you to all the presenters
• Thank you to the Affiliates for the Sports Day, sponsorships and Exhibition
• Thanks to the AMEU Secretariat
• Thank you to the team from Nelson Mandela Bay Electricity and all who have contributed to an enjoyable and very interesting Convention