

THE ASSOCIATION OF MUNICIPAL ELECTRICITY UNDERTAKINGS  
(SOUTHERN AFRICA)

DIE VERENIGING VAN MUNISIPALE ELEKTRISITEITSONDERNEMINGS  
(SUIDELIKE AFRIKA)

GOOD HOPE BRANCH / GOEIE HOOP TAK

MINUTES OF THE 171<sup>ST</sup> GENERAL MEETING OF THE AMEU AFFILIATES/GOOD HOPE BRANCH OF THE ASSOCIATION OF MUNICIPAL ELECTRICITY UNDERTAKINGS (SOUTHERN AFRICA) HELD AT THE HERBERG HOTEL, ARNISTON ON FRIDAY, 21 MAY 2010.

NOTULE VAN DIE 171<sup>STE</sup> ALGEMENE VERGADERING VAN DIE VMEQ-GEAFFILLIEERDES/GOEIE HOOP-TAK VAN DIE VERENIGING VAN MUNISIPALE ELEKTRISITEITSONDERNEMINGS (SUIDELIKE AFRIKA) BY DIE HERBERG HOTEL, ARNISTON GEHOU OP VRYDAG, 21 MEI 2010.

**ATTENDANCE / BYWONING**

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## **1. OPENING AND WELCOME / OPENING EN VERWELKOMING**

- 1.1 The Chairman opened with prayer and welcomed all and the Executive Mayor of Agulhas Municipality, Mr Richard Mitchell who addressed the meeting.

A moment of silence was held to respect the passing of Clive Birchell.  
The Chairman wished Fred Daniel a speedy recovery.

1.2 Arrangements/Reëlings

Mr Robert Els gave details of the arrangements for the tea break at 10:30 and the lunch at ± 13:00.

Acknowledgments/Bedankings

The Chairman thanked Agulhas Mayor, Richard Mitchell, Piet Ebersson and staff, and Robert Els for the venue and opportunity to hold the meeting in their area.

1.4 Announcements/Aankondigings

None

2. **APOLOGIES / VERSKONINGS**

Bob Wallis  
Michael Rhode

3. **CHANGE OF ADDRESS / ADRESVERANDERING**

- Michael Rhode has been appointed to the Engineer position in Drakenstein Municipality
- Jan Coetzee (Drakenstein) advised that he would be retiring on 1 June 2010.

The Chairman thanked Jan for his input over the many years and wished him well for his retirement.

- Johan Nel announced that he will be taking early retirement and may not be in municipal service at the date of the next meeting.

4. **CONFIRMATION OF THE MINUTES OF THE AMEU AFFILIATES / GOOD HOPE BRANCH'S  
170<sup>TH</sup> GENERAL MEETING HELD AT THE BIRCKENHEAD BOAT CLUB ON FRIDAY,  
26 FEBRUARY 2010.**

**BEKRAGTIGING VAN DIE NOTULE VAN DIE VME0-GEAFFILLIEERDES / GOEIE HOOP TAK,  
170<sup>STE</sup> ALGEMENE VERGADERING BY BIRCKENHEAD BOOT CLUB GEHOU OP VRYDAG,  
26 FEBRUARIE 2010.**

4.1 Copies of the minutes of meeting have been circulated to all members.

4.2 Corrections: The spelling of Peter Fowles' name was corrected

4.3 It was proposed by Mr Floris Koegelenberg and duly seconded by Mr Len Richardson and agreed that the minutes be approved for signature by the Chairman with the above correction.

5. **MATTERS ARISING FROM THE MINUTES AND NOT ON THE AGENDA  
SAKE VOORTSPRUITEND UIT DIE NOTULE EN NIE OP DIE AGENDA NIE**

None

6. **ADDITIONAL ITEMS TO BE DISCUSSED UNDER ITEM 15  
BYKOMENDE ITEMS VIR BESPREKING UNDER ITEM 15**

Training  
Draft Regulations on Energy Data  
Service Delivery Agreement between Eskom and Municipalities  
Reselling of electricity  
Co-generation / Embedded generation

7. **CORRESPONDENCE / KORRESPONDENSIE**

None

## **8. REPORTS / VERSLAE**

### **8.1 Progress of AMEU/Eskom Sub-Working Groups** **Vordering van die VMEO/Eskom-subwerkgroep**

The representatives of the various Sub-Working groups responded as follows:

#### **8.1.1 Eden and Klein Karoo (Mr Johan Nel)**

No meeting held recently

#### **8.1.2 West Coast (Mr Roelof du Toit)**

Nothing new to report

#### **8.1.3 Overberg**

Nothing to report

#### **8.1.4 Boland**

Nothing to report

#### **8.1.5 Cape Town Metro/Stad Kaapstad**

Nothing to report

### **8.2 Report from the Representatives on the Executive Council** **Verslag van Verteenwoordigers op die Uitvoerende Raad**

Mr Peter Fowles report on:

Committee meeting held on 10 – 11 February, and Executive Committee meeting held on 24 March  
Report back was given at Gansbaai AMEU meeting  
Further update is:

#### Standing Committee

- Financial Statement
  - R823 259 deficit
  - 20% increases in membership subscription & convention registration fees
- Encourage new members
- External liaison
  - Meeting to be arranged with Members, DoE, COGTA and National Treasury.
- Convention 2010
  - Arrangements proceeding
  - 27 – 29 September 2010 in Stellenbosch
  - High cost a concern

#### Legal & Statutory Committee

- NERT – little has come from this
- AMEU not being invited to work groups
- Supply Chain Management
  - Problems reported from members
  - Hampers service delivery
  - Eskom in Municipal areas
    - Municipality wants to be supplier
    - Meeting to be held to address this
    - To be raised with NERSA

#### Tariff Committee

- NERSA tariff guideline increase for 2010 / 2011 discussed - 28,9% Eskom increase to Municipality
- Those Municipalities not complying with NERSA increase limits need to present at public having for approval of their tariffs
- SALGA CEO and NERSA CEO to meet. Peter Fowles will attend

- Renewable Energy in feed tariffs – Adel Greyling (011 8004952) willing to assist Municipality
- Small grid PV connections
  - NRS 097-2-1 Technical Spec for PV generation to be published soon
  - Brian Jones from Cape Town active in field
  - Small scale generators do not need licence – according to Fred Kruger from NERSA
  - Guidelines to be drafted to cover net metering
  - Need to be seen to be enabling this
  - Embedded generation work group to be established between Eskom and AMEU
- AMEU tariff Sundry
  - Reason for tariff increases need to be explained / discussed

#### Training courses

- Feasibility being investigated
- 2 day course on tariffs might be held
- Co-operation with Eskom going well
- Electrical Engineering Skills Shortage
  - Poor response to surveys
  - EDI Holdings carried out study
- LGSETA
  - Municipalities might be able to access bursary funding via AMEU
  - Funding for specific funding is possible

#### Restructuring Committee

- SALGA's 26 issues on the table
- SALGA using AMEU for input
- SALGA in favour of restructuring subject to 26 issues being addressed
- Ringfencing insight
- AMEU needs statistics from Municipalities

#### Technical Committee

- Constant criticism of Municipalities – funding not being spent on projects for electrical connections - only 33% achieved
- Building of houses is a problem – no houses to connect!
- 2010 Forum
- No more meetings to be held

All the above presented to Exec Co on 24 March 2010.

Good Hope Branch needs to nominate 4 members for Exco. Looking for a female engineer nominee.

Election to be held at Convention in Stellenbosch

#### Discussion :

- Funding from DOE is only made available from 1 July although you begins on 1 April – report by Len Richardson.
- Chairman reported that Oudtshoorn was targeted by NERSA to implement Inclining Block Tariffs
- Malmesbury summoned to public hearing by NERSA on 3<sup>rd</sup> June. Commercial industrial will need to subsidise domestic customers
- City of Cape Town has also been summoned to a public hearing on tariff increases.
- Municipalities not members of AMEU reported by Chairman.
  - Central Karoo District Municipality City : Beaufort West
  - Laingsburg Local Laingsburg
  - Hessequa Local Riversdal
  - Prince Albert Prince Albert
  - West Coast District Moorreesburg
  - Eden District George

**8.3 Sub-Committee: Wiring Code Revisions and Standard Electricity Supply By-Law**  
**Subkomitee: Bedradingskodehersienings en standaardelektrisiteitsvoorsieningsverordening**

- Electrical Installation Regulations
  - To be noted that Section 5(6) is enforce as from 1 April 2010. This covers the Appointment of Competent person to ensure that the design and installation complies with the safety standard where there is a supply to 5 or more users from a new point of supply.
- By-laws
  - City of Cape Town By-law has been published in the Provincial Gazette on 16 March 2010. City will be put onto AMEU website for general information.
- Solar Water Heater Controller PV installations
  - Peter Smuts – Western Cape Approved Inspection Authority reported – compliance with Wiring Code is a problem
  - Lack of policing, a problem
  - Approval of solar water controller have any been approved for installation
  - Earth Bonding cut away
  - Ripple control units being cut away
  - No protection on small wiring to controllers
- PV installation - NRS doc available only for stand alone systems
- Socket outlet – non standard ones being installed in places
- Registration of Electrical Contractors - ECB no longer to do this after 1 February 2011 Department of Labour to do this from then on.
- New COC and Commencement form

**9. FEEDBACK FROM SARPA / TERUGVOERING VAN SARPA**

Rens Bindeman reported:

- NRS document revised are 055, 096, 101
- Training sessions to be held
  - National forum to develop guideline document
  - SARPA Convention – Gallagher Estate, Johannesburg, 29/30 July 2010. Papers needed
- Metal Theft Unit – Neil Arendse City of Cape Town
  - Presentation on success in Cape Town given
  - Copper Theft a serious problem in SA – R500m p.a.  
Country wide – on the increase  
Dealt with as priority crime
  - CoCT losses: Area North R1 099 000  
Area South R100 000
  - Cape Town exported R77m worth of copper!!  
Where did this come from?
  - No regulation of bucket shops
  - Illegal connection a concern
  - Theft of powerline tower components
  - Use Council uniforms
  - 12.1 tons copper confiscated this year

## 10. **TRAINING / OPLEIDING**

Joe Renney PAWC reported:

- MIG funding to Municipalities - spent 100% of R341m provided for both Civil and Electrical projects
- Capacity building in Municipalities - consultant appointed is Kwezi V3 – Theo Potgieter for master plans
- Master plan
  - Municipalities to be contacted
  - Report to be prepared
  - Meetings to be arranged to collect information
  - To determine status of planning in Municipalities
  - Maintenance schedule status in Municipalities to be determined
  - Asset register status
- Dept of Human Settlements
  - Use of wind generation being piloted
  - Be sure that these comply with standards when installed being tested by SABS
  - Integrated into installation wiring
  - Beware of Chinese models available
- Training issues
  - DOL rolled out accelerated artisan training – R30m value for project targeting retrenched people who already have some qualifications – at least N4. Names to be submitted to Joe Renney.
  - Electrical training (3 years) Documents to be sent out soon
- 27 people identified in Southern Cape to be taken through trade test preparation
- Visited City Power where 30 electrical technicians have been taken on
  - City Power offering these people to Municipalities at their cost (City Power) to train them for 3 years. Contact Joe Renney if interested
- DoE letter sent out regarding low spend on electrification funding. Can affect further allocations

## 11. **ESKOM SHORT TERM SECURITY OF SUPPLY – Teresa Carolyn (Eskom – National control)**

- Comparison of previous years demand projections for next 12 months and next 3 years
- Loads back to 2007 levels
- Peak of 37 000 MW expected for 2010 in July
- Demand vs supply balance explained
- Use of emergency reserves
- Load reduction request
- Load shedding
- Reserves needed to cater for uncertainties - 41 000 MW total for peak demand
- Next installed capacity 43 000 MW not always available
- Emergency demand resources needed to meet requirements due to shortfall of capacity
- Plant performance increased
- Stockpile of coal improved over last year
- World Cup period will be covered – no shortfall is expected
- 3 years ahead prognosis
  - want no load shedding
  - limit use of expensive peaking capacity
  - Use demand site management and Power Conservation Programme
  - Need reduction in demand
  - Plant is aging
  - Decision making is outside Eskom – with DoE, NERSA
- System is very tight

**12. COMPLIANCE/LEGISLATION**

Nil

**13. INCIDENTS / ACCIDENTS**

Nil

**14. INDUSTRY RESTRUCTURING & REDS UPDATE**

- Deon Louw reported:
  - EDI Holdings is assisting Municipalities with ringfencing.
  - SALGA approval of restructuring with 26 identified issues to be addressed
  - 36 Municipalities have done ringfencing exercises
  - A total of 187 municipalities need to be done
- Ringfencing Insights – Lee Annamalia
  - A presentation document was handed to all which listed statistics drawn from the ringfencing exercise from the first 36 municipalities.

**15. PRESENTATIONS/ AANBIEDINGE****15.1 ABB - Mike de Swardt****Arc Faults – Hazards, Containment and Mitigation**

- Understand arc faults
- Type of arc faults
  - 1 Compression
  - 2 Expansion
  - 3 Emission (explosion)
  - 4 Thermal burning continues
- Basic facts explained
- Hazards of pressure
- How are these pressures handled
- Temperature
- Poisons
- Sound
- Dangerous of Shock waves and Radiation waves
- Serious injuries
- High repair costs
- Production losses
- 65% of faults happen with operator present
- Causes of faults listed
- Registration and specifications Regulations
- Personal protective equipment standards SANS 724, NFPA 70E 2009
- HV Operating Regulations (NRS 040)
- Arc Resistant Standards IEC 62271
- Containment and mitigation of pressure (duct design) time of arcing (arc detection devices, arc suppressors)

**15.2 Actom T & D - Alec Duff-**

- MV Switchgear manufacturer locally, retrofit AGVB oil c/b's to SF6
- 12-24 kV
- Miniature substations
- Mobile substations – modular design
- Vacuum interrupter plant 31.5 kA
- Type tested products
- Internal arc testing
- Ring main units – SF<sub>6</sub> insulated

**15.3 ITRON - Danie Janse van Rensburg**

- Overview of ACE 9000 ITP meters 100A 3 phase
- Power limit problem experienced in prepaid meter



- Engineering token bit make up to set up power limit – 575 specs
- Problem highlight in Gansbaai when setting up very high tripping level, so meter would not trip (meter limit settings)
- Value of 70 kW transfer amount exceeded 16 bit field resulting meter not operating as expected
- Set lower breaker tripping levels for proper co-ordination

#### 15.4 POWERTECH IST - Jaap Venter

- Service infrastructure Value of Asset Management
- Software as a Service
- Maximising return on Assets
  - Highest reliability
  - Limit resources
  - Lowest cost
  - Compliance framework
- Aging infrastructure
- Growth means more assets
- Lack of staff
- Knowledge loss – resignations, retirements
- Standard operating procedures
- Solution is available from Powertech
- Unique package to meet needs for small to mid market –IBM Maximo package is modular & flexible
- Supports smart metering
- Subscription base payment, therefore operating expense not capital purchase
- Managed service included in subscription
- Provides:
  - Work Management
  - Inventory management
  - Procurement management
  - Contract management
  - Service management
  - Asset management

#### 16. ITEMS HELD OVER FOR DISCUSSION FROM 170TH GENERAL MEETING ITEMS WAT OORSTAAN VIR BESPREKING VAN 170STE ALGEMENE VERGADERING

None

#### 17. ADDITIONAL ITEMS FOR DISCUSSION / BESPREKING VAN BYKOMENDE ITEMS

- 17.1 Draft Regulation on Energy Data
- Submission of comments have been request
- 17.2 Service Delivery Agreement between Eskom & Municipality
- Dick Naidoo of Mossel Bay has already submitted comments
- 17.3 Resale of Electricity - Len Richardson
- Tariff that can be charged by reseller depends on what conditions are set out in By-laws. NET Group have done a study for NERSA. NERSA needs to regulate this but nothing has been published yet.

#### 18. MATTERS FROM OTHER BRANCHES / AANGELEENTHEDE VAN ANDER TAK

None

#### 19. GENERAL / ALGEMEEN

Due to the possibility that Johan Nel might go on early retirement before the next meeting, Dick Naidoo was elected Chairman and interim Vice Chairman would be Johan Nel.

Johan Nel thanked Neil Ballantyne for standing in for Fred Daniel and Floris for their assistance with the minutes of previous meetings.

**20. SPONSORSHIP**

Mr Robert Els announced that 88 people attend the meeting. He thanked all the firms who had provided sponsorship for the meeting which amount to R42 003, and thanked Pieter Everson for all the facilities that were provided.

**21. DATES AND PLACES OF AMEU MEETINGS  
DATUMS EN PLEKKE VAN VMEO VERGADERINGS**

Veldrift – 20 August 2010

Stellenbosch Convention – 27 to 29 September 2010

Venue to be decided – 11 & 12 November 2010

The Chairman closed the meeting at 13:10

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**CHAIRMAN**

NEIL BALLANTYNE FOR:

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