

**THE ASSOCIATION OF MUNICIPAL ELECTRICITY UNDERTAKINGS
(SOUTHERN AFRICA)**

**DIE VERENIGING VAN MUNISIPALE ELEKTRISITEITSONDERNEMINGS
(SUIDELIKE AFRIKA)**

GOOD HOPE BRANCH / GOEIE HOOP TAK

MINUTES OF THE 181st GENERAL MEETING OF THE AMEU AFFILIATES/GOOD HOPE BRANCH OF THE ASSOCIATION OF MUNICIPAL ELECTRICITY UNDERTAKINGS (SOUTHERN AFRICA) HELD AT THE MOUNT VIEW RESORT, YORK STREET, GEORGE ON THURSDAY, 8 NOVEMBER 2012 AT 14:00 AND FRIDAY, 9 NOVEMBER 2012.

NOTULE VAN DIE 181^{ste} ALGEMENE VERGADERING VAN DIE VMEO-GEAFFILLIEERDES/GOEIE HOOP-TAK VAN DIE VERENIGING VAN MUNISIPALE ELEKTRISITEITSONDERNEMINGS (SUIDELIKE AFRIKA) BY DIE MOUNT VIEW OORD, YORKSTRAAT, GEORGE GEHOU OP DONDERDAG, 8 NOVEMBER 2012 EN VRYDAG, 9 NOVEMBER 2012.

THURSDAY, 8 NOVEMBER 2012 AT 14:00
DONDERDAG, 8 NOVEMBER 2012 OM 14:00

AMEU GENERAL MEETING -Session One

ATTENDANCE / BYWONING – 8 November 2012

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1. OPENING AND WELCOME / OPENING EN VERWELKOMING

The Chairman welcomed all and the session was opened with prayer. A minute's silence was observed in honour of Ockert Bothma (previous Town Electrical Engineer of Mossel Bay) who passed away suddenly on 3 November 2012.

1.2 Arrangements/Reëlings

Mr Struan Steel gave details of the arrangements for the tea break at 15:30 and a function and meal which will be held at 18:00.

1.3 Acknowledgments/Bedankings

The Chairman thanked Mount View Resort for the use of the facilities, Struan Steele and the George Municipality for planning the meeting and the Affiliates for their sponsorship. Struan Steele thanked CT Lab for the sponsorship of the function held on Wednesday evening, 7 November, and Johan Moller and his family for arranging the function and entertainment.

The Chairman congratulated Michael Rhode and Jorge Pereira on their receipt of Honorary Membership of the AMEU at the recent AMEU Convention.

1.4 Announcements/Aankondigings

None

2. APOLOGIES / VERSKONINGS

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3. CHANGE OF ADDRESS / ADRESVERANDERING

Jan Coetzee – previously from Drakenstein Municipality has retired. Floris Koegelenberg will supply Jan's new e-mail address.

4. CONFIRMATION OF THE MINUTES OF THE AMEU AFFILIATES / GOOD HOPE BRANCH'S 180th GENERAL MEETING HELD AT THE MELKBOS COUNTRY CLUB (CITY OF CAPE TOWN) ON FRIDAY, 17 AUGUST 2012. **BEKRAGTING VAN DIE NOTULE VAN DIE VMEO-GEAFFILLIEERDES / GOEIE HOOP TAK, 180^{ste} ALGEMENE VERGADERING BY DIE MELKBOS COUNTRY KLUB (STAD KAAPSTAD) GEHOU OP VRYDAG, 17 AUGUSTUS 2012.**

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

4.2 Corrections: Item 9.1 – “NYPD” should read “MYPD”

4.3 The adoption of the minutes was proposed by Deon Louw and duly seconded by Kevin Grunewald.

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 20 **BYKOMENDE ITEMS VIR BESPREKING UNDER ITEM 20**

Solar PV panel installations that are being connected into the grid without the municipality's knowledge.

(Len Richardson)

7. CORRESPONDENCE / KORRESPONDENSIE

None

8. REPORTS / VERSLAE

8.1 Feedback from Local Area Working Groups **Vordering van Plaaslike Gebied Werkgroepe**

- **Overberg** - Deon Louw reported on:

MYPD

NERSA approval of tariffs

- Request for approval earlier so Municipalities can read

- SALGA issues

(all of the above to be covered in Executive Council feedback)

- **Boland** - MC Human reported on:

- PV panel discussion - feedback is awaiting info from Brian van der Watt, Ceres

- Courses – HRVS

- Getting people to attend is a problem. Need a solution from HR Procurement as it is a HR Issue

- Access to Stores over weekends to get materials

- Drakenstein : Safety Committee Clothing Schedule.

- Difficulty procuring through their procurement. To use Eskom tender. Jeans to be issued by Eskom - now flame retardant overalls
- Drakenstein to order "Smart meters" soon.

9. PRESENTATIONS BY AFFILIATES / AANBIEDINGS DEUR GEAFFILIEERDES

9.1 The Mercedes Benz case against Buffalo City – CT Lab – Prof Johan Rens (see presentation 9-1) – "Business of electricity"

- What is needed to trade in electricity
 - rules are needed
- Why did QoS not work in South Africa discussed
- A look at the reality of the SA power system given
- The reasons why MB challenged Buffalo City on QoS explained
- Rights and responsibilities of users of electricity discussed
- Fluctuation of voltage – dips and peaks
 - sustained for several hours
- MB suffered damage to machinery
- Basics of MB claim covered
- The supplier has indemnity as stated in Bylaws
- MB should have protected their own equipment
- Discussion of claim made by Buffalo City in their defence
- Explanation of CT Lab's Power Quality portal given and Impedo-Duo

9.2 Inclining block tariff and the effect on resellers – Neal Douglas – Power Measurement (see presentation 9-2)

- Reseller defined
- Explanation of prepayment reselling given
- FBE provided, same tariff used as Municipality uses to supply end customer
- Boomed, gated villages in late 2000s resulted in a need for resellers
- How recession affected Eskom tariffs
- Effect on tariffs of large Eskom increases discussed
- Energy efficiency and economic downturn has resulted in lower demand for electricity
- Resellers tariff a possible solution
- NERSA Reseller Workshop held in October 2011 – no outcome from this yet
- What is the future for Municipalities of resellers withdraw from the market

9.3 Zigbee & AMI Platform – Strike Technologies – James Calmeyer (see presentation 9-3)

- Zigbee as a technology discussed
- AMI Technology – an enabling technology
- Zigbee global wireless standard
 - redundant
 - self healing
 - 2.4 GHz band
- Co-ordinators, routers, end devices explained
- Interoperability / co-existence explained
- Mesh connectivity possible
- Not limited to 2 load control devices
- Provides last mile communication technology

9.4 Role of Service, Work & Asset Management in enabling a Smart Grid / Smarter City – Vetasi - Bouke Spoelstra

- Managing smart meters
- IBM's vision for a smarter planet
- Extracting intelligence from interconnected networks to manage devices eg. smart meters
 - Network management solutions
- Ad hoc meters can be temporarily located at network nodes and information recovered from these for analysis and planning purposes

- Visualization and control
- Based on IBM Maxima system
- Asset modelling – hierarchical vs linear module
- Work management focus area
- Rescue load and availability
 - Dispatching – GEO location tracking
- Mobile view for response team
- Real time updating
- Video shown of use of the system in City of Dubuque in USA

10. ELECTION OF OFFICE BEARERS FOR 2013 & 2014 / VERKIESING VAN AMPSDRAERS VIR 2013 & 2014

10.1 Election of Chairman, Vice-Chairman and Hon. Secretary Verkiesing van Voorsitter, Ondervoorsotter en Eresekretaris

The following were elected:
 Chairman – Francois du Toit
 Vice Chairman – Floris Koegelenberg
 Honorary Secretary – Neil Ballantyne

10.2 Election of Sub-committee: Wiring Code Revisions and Standard Electricity Supply By-law Verkiesing van Subkomitee: Bedradingskodehersienings en Standaard Elektrisiteitsvoorsieningsverordering

Neil Ballantyne was elected

10.3 Election of Good Hope Affiliate Chairman (one vote per affiliate company) Verkiesing van Goeie Hoop Geaffilieerde Voorsitter

Jacques Visser was elected

Thanks was expressed by the Chairman to Struan Steele for his chairmanship of the Affiliates over the past two years and the great work he did arranging all the meetings and functions.

Close of day's session at 16:45

FRIDAY, 11 NOVEMBER 2011 AT 09:00
VRYDAG, 11 NOVEMBER 2011 OM 09:00

AMEU GENERAL MEETING -Session Two

ATTENDANCE / BYWONING – 9 November 2012

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11. OPENING AND WELCOME / OPENING EN VERWELKOMING

The Chairman welcomed all to the Friday session which was opened with a prayer. The Executive Mayor of George Municipality, Ald Charles Standers welcomed all to George and addressed the meeting after which and a local choir provided entertainment.

Arrangements for the morning were announced, tea being at 10:30 and lunch at 13:30.

12. REPORTS / VERSLAE

12.1 Report from the Representatives on the Executive Council **Verslag van Verteenwoordigers op die Uitvoerende Raad** **(See presentation 12-1)**

Deon Louw reporting on behalf of Peter Fowles highlighted the following:

- Analysis of Convention given
- New office bearers announced
- 2013 Technical Convention possibly to be held in Buffalo City Metro – Decision to be made on 12 November
- Eskom / Municipality supply are disputes mentioned
- Next Executive meeting will be in Windhoek, Namibia
- Reports from all the Standing Committee given. Highlights are
 - Financial loss was made in past years due to unpaid fees. This year profit has been made but fees still due from Convention & membership
 - Legality of ESLC has been queried. Issue still needs to be impacted.
 - Municipal Systems Act 4(c) – surcharges on Eskom Supply areas. Need Service Delivery Agreement with Eskom for this to be applied legally.
 - Small scale embedded generation
 - Bylaws need to be revised to make purchase from these generators legal. NERSA to look at tariffs next year.
 - SALGA has raised disputes - Issue with Eskom, them providing street lighting at Eskom cost
 - Deon Louw to produce document highlighting and giving guidance on legal issues with Eskom
 - Eskom MYPD3 discussed
 - Regulation R773 – suggestion that each Municipality write to NERSA asking for exemption
 - EE Publishes to issue statement soon on electricity tariffs comparisons in response to recent media report on high municipal tariffs.
 - Workgroup has been formed to look into electrician trade test content. To be finalised early next year.
 - Profiles for Head of Electricity is being developed and will likely become mandatory.
 - MFMA Unit standards also have to be passed by Financial Managers in municipalities. Must have passed these or be registered for course in 2013.
 - Copper theft and illegal connections highlighted. AMEU / SARPA conference on copper theft to be looked at.
 - OHSA to be amended. Draft being discussed.
 - DoL request that SABS 10280 be complied for Infrastructure Safety & Construction.

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

- A change is needed to the standard by-law to allow for purchases of energy from small scale generators.
Neil Ballantyne and Deon Louw will work on this.
- Deon Louw mentioned the registration of electrical contractors now being done by the Department of Labour.
- Small scale generator application forms
 - Drakenstein are developing forms
 - Cape Town have forms. These will be circulated with Brain Jones' e-mail address.

13. FEEDBACK FROM SARPA / TERUGVOERING VAN SARPA

Rens Bindeman reported:

- Image change happening, being proactive. Training Centre in Kafue Gorge, Zambia taking place. Bi-annual training to be held.
- Training of SAPS on Non-ferrous theft and Second Hand Goods Act
- Standards revision NRS 080 – calculation of loss in progress
- Marking of cables – standards can be included in tenders documents in future
- Finalisation of SARPA / SAPS convention on copper theft proposed
- Asia Revenue Protection Association being initiated by SARPA

14. REPORTS FROM GOVERNMENT DEPARTMENTS / TERUGVOERING VAN STAATS DEPARTEMENTE

**14.1 Department of Local Government / Departement van Plaaslike Owerhede
(Joe Renney)
(See presentation 14-1)**

DBSA Training program (sect 28) 2010 – 2012 presented

- Smart metering – where are we going?
- Aspects of what smart meter achieve
- Standards!! Not yet available
- Integration into existing systems needed
- Comparison made between current power grip and future power grids
- Are we ready for these complex systems?
- Are systems offered “future proofed”

15. UPDATE ON ESKOM'S INTEGRATED DEMAND MANAGEMENT PROGRAMME
(Lodine Redelinghuys)
 (See presentation 15)

- Background to small scale renewable
 - Displacing existing electricity usage between 06h00 – 22h00 (10kW – 50kW projects)
 - Excludes solar water heaters

16. COMPLIANCE / LEGISLATION

None

17. INCIDENTS / ACCIDENTS

Stellenbosch Municipality - Floris Kogelenberg reported:

Kiosk opened – connections made to busbars using bare wire underground and stapled to trees
 Large theft problem exists in the area
 Need SAPS protection to remove illegal wires
 Person killed removing these wires

18. PRESENTATIONS BY AFFILIATES / AANBIEDINGS DEUR GEAFFILIEERDES

18.1 Introduction to Gradelux – GE - Conrad Muller
 “Ideal solution for lighting up a City”

- System for energy efficiency on street lighting
- Discussion of lamp types given
- Voltage variations during off peak times discussed. What this does to lamps and consumption covered
- Methods to save energy discussed
 - giving varying returns on investments
- GE's regulator described
 - fitted to bulk supply point
- Product offered covered, description of components and functionality
- Energy saving up to 40% can be achieved
- System is a voltage stabilizer (nominal 220V) and a dimmer to set point
 Voltage (depending on traffic volumes)
- System demonstration given
- Remote access possible to programme devices and remote switch
- Single (up to 15 kVA) or 3 phase (up to 45 kVA) devices available

18.2 Actom : doing business in South Africa – Actom – Struan Steele
 (See presentation 18-2)

- Overview of Company given
 - more than 100 years old
- History of company reviewed
- Alstom South Africa split to form Actom and Alstom
- Present company make up listed

18.3 Introduction of Nanoland Electriflo product – Conrad Stoffberg - Nanoland SA
(See presentation 18-3)

- Product range described
 - Liquid glass coatings of surface for easy cleaning
 - Structural replacement for reinforcing steel bars – made from rock – “rock bar” is 2,5 times stronger and 8 times lighter than steel bars
 - Electrical insulation – proof of concept for coating of electrical boxes carried out in Cape Town
 - Coating of electrical components inside boxes, printed circuit boards etc.
 - Protects components from moisture penetration
 - Demonstration given

19. ITEMS HELD OVER FOR DISCUSSION FROM 180th GENERAL MEETING
ITEMS WAT OORSTAAN VIR BESPREKING VAN 180^{ste} ALGEMENE VERGADERING

None

20. ADDITIONAL ITEMS FOR DISCUSSION / BESPREKING VAN BYKOMENDE ITEMS

Solar PV panel installations and feeding into the grid without the municipality's knowledge.
 (Len Richardson)

Further to the discussions under Item 12.2, Len stated the need to pursue this. He will give feedback at the next meeting.

Wilfred Fritz described the response of invertors to loss of power from the Utility's network - Invertor switches off as well and isolates the incoming voltage from the PV panel.

21. MATTERS FROM OTHER BRANCHES / AANGELEENTHEDE VAN ANDER TAK

None

22. GENERAL / ALGEMEEN

The following NRS workgroups are being formed and workgroup members are needed:

NRS 097 - Grid interconnection of embedded generation, Part 2: Small-scale embedded generation,
 Section 1: Utility interface

NRS 098 - Guidelines for the installation and safe use of portable generators on Utilities' networks

23. SPONSORSHIP

Mr Struan Steele thanked all the firms who had provided generous sponsorship for the meetings, and also thanked Mount View Resort for all the facilities that were provided for the two days of meetings. He also thanked George Municipality, Kevin Grunewald and all his staff for all the arrangements.

Trudy Herman was also thanked for her assistance to Struan over the past two years.

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

22 February 2013	Overstrand Municipality
17 May 2013	Venue to be decided
16 August 2013	Koeberg Nuclear Power Station (City of Cape Town / Eskom)
14/15 November 2013	Venue to be decided

The Chairman thanked all for attending and closed the meeting at 13:00.

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CHAIRMAN

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