

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

**GOOD HOPE BRANCH / GOEIE HOOP TAK**

**MINUTES OF THE 186<sup>th</sup> GENERAL MEETING OF THE AMEU AFFILIATES/GOOD HOPE BRANCH OF THE ASSOCIATION OF MUNICIPAL ELECTRICITY UTILITIES (SOUTHERN AFRICA) HELD AT THE CITY OF CAPE TOWN, BLOEMHOF ELECTRICITY HEAD OFFICE, BELLVILLE ON FRIDAY, 21 FEBRUARY 2014 AT 08:30.**

**NOTULE VAN DIE 186<sup>de</sup> ALGEMENE VERGADERING VAN DIE VMEU-GEAFFILLIEERDES/GOEIE HOOP-TAK VAN DIE VERENIGING VAN MUNISIPALE ELEKTRISITEITSONDERNEMINGS (SUIDELIKE AFRIKA) WAT OP VRYDAG, 21 FEBRUARIE 2014 OM 08:30 BY DIE STAD KAAPSTAD SE ELEKTRISITEITS HOOF KANTOOR, BELLVILLE GEHOU IS.**

**ATTENDANCE / BYWONING**

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## 1. OPENING AND WELCOME / OPENING EN VERWELKOMING

The Chairman opened the meeting, welcomed all to the meeting and introduced the Executive Councillor of the City of Cape Town, Cllr Ernest Sonnenberg, who addressed the meeting, after which the meeting was opened with a prayer.

## 1.2 Arrangements/Reëlings

Martin van Staden gave details of the arrangements for the tea break at 10:15 and a lunch which will be held at 13:30.

## 1.3 Acknowledgments/Bedankings

The Chairman thanked the City of Cape Town for the use of the facilities, Jacques Visser, Martin van Staden and the Cape Town staff for the arrangements, and the Affiliates for their sponsorship.

## 1.4 Announcements/Aankondigings

None

## 2. APOLOGIES / VERSKONINGS

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## 3. CHANGE OF ADDRESS / ADRESVERANDERING

Willem Albertyn has moved to Drakenstein Municipality.

## 4. CONFIRMATION OF THE MINUTES OF THE AMEU AFFILIATES / GOOD HOPE BRANCH'S 185<sup>th</sup> GENERAL MEETING HELD AT THE DIAZ STRAND HOTEL, MOSSEL BAY ON THURSDAY AND FRIDAY, 14/15 NOVEMBER 2013.

### BEKRAGTIGING VAN DIE NOTULE VAN DIE VMEQ-GEAFFILLIEERDES / GOEIE HOOP TAK, 185<sup>de</sup> ALGEMENE VERGADERING BY DIE DIAZ STRAND HOTEL, MOSSELBAAI, GEHOU OP DONDERDAG EN VRYDAG, 14/15 NOVEMBER 2013.

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

4.2 The adoption of the minutes was proposed by William Olivier and duly seconded by Deon Louw.

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 17  
BYKOMENDE ITEMS VIR BESPREKING UNDER ITEM 17**

None

7. **CORRESPONDENCE / KORRESPONDENSIE**

None

8. **PRESENTATIONS BY AFFILIATES / AANBIEDINGS DEUR GEAFFILIEERDES**

1. **“Megger – your Test & Measurement Solution” – Marius Pitzer – Megger**  
**(See presentation 8-1)**

An overview of the history of Megger and test instruments was given

- Robust and reliable test equipment is available
- Local support available in main centres
- Authorised repair and calibration services
- Insulation testers presented
- Low resistance testers available
- Transformer ratio and winding resistance testers
- Frequency response analysis instruments
- Tan Delta testing – 12kV AC
- Dielectric insulation analysis
- Power DB Test Data Management software to manage all test results
- Oil testing units
- Earth testing instruments
- Battery testing equipment
- Impedance and load units
- Relay testing – manual and automatic control
- Current transformer testers
- Phase angle meter
- Cable fault location
- Hand held TDR's
- Primary injection testers to 15 000A
- Power quality to 63<sup>rd</sup> harmonic
- HV Dielectric Test set
- Standard instrument – multi meters, clamp meters, etc
- Portable appliance testers
- Megger & SebaKMT equation explained

2. **“Innovation Substation Solution” – Leon Knoll – e-Lek**  
**(See presentation 8-2)**

Overview of switchgear range given

- Integrated remote communications
- Voltage regulation units 15% buck or boost
- Pole mount capacitors
- New generation controls
- Common software interface
- Surge arrestors
- Western Cape Service Branch for local support
- Substation HMI's and gateways

## 9. REPORTS / VERSLAE

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

- **Overberg** - Danie Maree reported on 2 meetings held:
  - Looked at new Construction Regulations
  - Backyarder connectors – 1 connection, 1 meter, 30A in total
- **Wynland** - No meeting was held during the period.
- **Eden** - Meeting was held. Technical issue were discussed
- **West Coast** - Nothing to report
- **Central Karoo** - Nothing to report

### 9.2 **Report from the Representatives on the Executive Council** **Verslag van Verteenwoordigers op die Uitvoerende Raad** (See presentation 9-2)

Peter Fowles highlighted the following:

- Budgeted surplus of R88 353
- Projected loss of R13 562 main reason is non-payment of convention fees
- Convention 2014 dates given
- Civilution discussed
- ESLC – Eskom worried about liability regarding NRS 048-9 load shedding and legal status  
NRS process does not go out to public consultation process. This is being challenged.
- ESLC proposed governance structure mentioned
- Boundary disputes. Municipality take-overs from Eskom supply areas
  - MOU proposed between Municipality and Eskom
    - CoC for meter installations not required as the meter is not part of the electrical installation and therefore there is no stationery requirement for such a CoC
- General Machinery Regulations not to be reviewed until the whole OHS Act is reviewed.
- Electricity Supply By-Laws:
  - review of Drakenstein By-law due to renewable embedded generation will be made available
- Public Protectors discussion regarding liability for damage to appliances. Legal advice by City Power through SALGA on whether this ruling can be challenged
- Municipal input requested at workshop to be held on SABS10280 - overhead power lines by DoL
  - Construction Regulations published - note that there are major changes.
  - Tariffs – cost of supply study by GENESIS mentioned
  - Tool available for use and support / help by GIZ is available to implement a study.
- NERSA Electricity resellers – still a burning issue! Consultation to start in April 2014
- AMEU requested a meeting will take place on 11 March
- NERSA have shelved rationalisation of tariff structure – rethink the approach
- NERSA review of IBT – 2 block option available  
IBT will not be reviewed again!
- Tariff guideline increase 7,39%
- NERSA “D” Forms vs draft Non-financial Information Manual
- Tariff survey document is on the website
- Training matters discussed
- Eskom system load shown  
Resolved to engage with Metros and Municipalities on demand response programme. To ask that 10 largest customers be asked to reduce load.
- Restructuring position paper from SALGA is on the website
- Electrification / NEAC master plan still not complete
- Deon Louw explained what SALGA is trying to achieve with Eskom supply areas and Municipalities. Matter relating to the constitution and responsibilities of Municipalities

### 9.3 ADAM review project – Nigel Waters - Aurecon

(See presentation 9-3)

- Backlogs exist in asset maintenance
- Report was produced and highlighted effect on delivery of service due to lack of maintenance
- Closing of EDI process affected drive to ensure maintenance
- DoE has picked this drive up with ADAM
- Work is going to be reviewed
- Input required from Municipalities
- Project overview given
- Deliverables presented with phasing and high level activities
- Project schedule presented. Report to be delivered to DoE by 31 March 2014
- Sample to update 2008 backlog 21 Municipalities & 2 Eskom areas
- Progress to date covered
- Sample to prioritise generic projects 60+ municipalities involved
- Methodology overview touched on
- Data gathering approach covered
- Data consolidation stage will then follow
- Participation via the website is encouraged [www.adamreview.co.za](http://www.adamreview.co.za)
- Website content displayed
- Way forward – request for all Municipalities to provide information requested on website by 7 March 2014

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

Nothing to report.

## 10. FEEDBACK FROM SARPA / TERUGVOERING VAN SARPA

Rens Bindeman reported:

Workshop with SARPA Executive

- finance income is problematic
- need plan to bring in fees
- 2 days of free training offered
- EDF may adopt SARPA in recognition of good work SARPA has done
- Conference to be held in Knysna in July
- SAPS training manual complete for Second Hand Goods Act
  - Training session held with SAPS
  - “Train the Trainer” programme completed

## 11. REPORTS FROM GOVERNMENT DEPARTMENTS / TERUGVOERING VAN STAATS DEPARTEMENTE

### 11.1 Department of Local Government / Departement van Plaaslike Owerhede

(Joe Renney)

(See presentation 11-1)

Joe Renney introduced Terry Smith from SA Hot Dip Galvanisers Association who discussed:

- Corrosion protection of steelwork
- Photos shown of old poles – still well coated
- Discolouration does not mean coating is ineffective
- Ask for hot dipped galvanised bolts
- Painting galvanised poles increases maintenance if aesthetics are important
- Different types of hot dipped gates discussed – different coating thicknesses
- Specifications listed
- Dry galvanising process explained
- What controls gate thickness listed
- The influence of silicon in steel explained

- Galvanic serves of metals explained
  - Life of coating underground given
  - The importance of surface preparation
  - Metalized bond explained
  - Repairs to hot dip galvanisers – cold gabs
  - Painting over galvanising covered
  - Misconceptions about zinc mentioned
- Website : [www.HDGASA.ORG.ZA](http://www.HDGASA.ORG.ZA)

Joe Renney then mentioned:

- Application by Local Gov. for funding to NT for Master Planning has been obtained. Funds will become available to Municipalities.
- Tender procedures anomalies course to be prepared
- Human Settlements policy : full internal wiring norms and standards to be drawn up for RDP homes.

## 11.2 **Department of Energy / Departement van Energie** **(Mhlangabezi Mzalisi)**

- Allocations of funding presented for each municipality
- Workshop to be held in Knysna on 27 March 2014

## 12. **COMPLIANCE / LEGISLATION**

None

## 13. **INCIDENTS / ACCIDENTS**

None

## 14. **PRESENTATIONS BY AFFILIATES / AANBIEDINGS DEUR GEAFFILIEERDES**

### 3. **“Sealing Technologies Tried & Tested” - Claudia Coetser - ICS**

**(See presentation 14-3)**

- Introduction given
- Situational analysis presented
  - revenue theft is ongoing
  - sealing can combat this
- Sealing is a process not a product
- Incorrect seals are often used
- Who should be accountable for sealing? List given
- What can be sealed?
- What help is available?
  - different types of seals mentioned
- NRS 055 & NRS 096 discussed
- Definition of a seal given
- Objectives of a seal – better engine number
- Benefits sealing given
- Different types of seals shown
- No tools required to affix modern seals
- Barcoding and colour coding is used
- Reason why are seals not receiving more attention and use addressed
- Management of the process needs attention

### 4. **“Are we putting a clamp on power loss” – Dale Heger – Tecovasion**

**(See presentation 14-4)**

- 20% of losses can be recovered by using Awesense
- Overview of Awesense given
- Identification of power loss
- Awesense solution explained
  - Power monitors – clamp on devices



- Specs presented. Mesh network communications
- Real time analytics available
- Data uploaded to Cloud for analysis of loads
- “Theft is the tip of the ice berg”
- Types of theft shown – syndicates involved
- Case study presented
- Tactic to detect theft explained
  - phase balancing
  - upload to backend
  - analyse data
  - can link to billing databases
- C&I Meter Verification can be performed using these devices
- Summing of system shown
- True Grid Insight – data can be overlaid on GIS
- Case study shown

**15. ITEMS HELD OVER FOR DISCUSSION FROM 185<sup>th</sup> GENERAL MEETING  
ITEMS WAT OORSTAAN VIR BESPREKING VAN 185<sup>de</sup> ALGEMENE VERGADERING**

None

**16. ADDITIONAL ITEMS FOR DISCUSSION / BESPREKING VAN BYKOMENDE ITEMS**

None

**17. MATTERS FROM OTHER BRANCHES / AANGELEENTHEDE VAN ANDER TAK**

None

**18. GENERAL / ALGEMEEN**

**18.1 Nomination / Election of the Good Hope Branch member to serve on AMEU Executive Committee**

**William Olivier was nominated and duly elected as Executive Committee representative for the Good Hope Branch.**

**18.2 GreenCape (a structure of the Western Cape Provincial Government)  
Update on Smart Grids project with in municipalities**

**“Outlook into the Future” - Bruce Haw – GreenCape**

**(See presentation 18.2a)**

- Changing internal – changing lifestyle
- destructed overstructure (?)
- increasing connectivity
- decreasing cost
- Devices on the internet discussed
- “Internet of things”
- Interoperability is needed
- “Smart world” presented
- Where does electricity distribution lie in this network?
- Machine to machine communication discussed – requires inter- operability
- Similar concept needed for smart meters
- A common machine to machine standard has been

**“Smart grid project feedback” - Bernard Bekker – Green Cape**

**(See presentation 18.2b)**

- The vision of the smart grid presented
- The current reality in comparison shown
- How do we move from current to vision?
- Need interoperability in to the future
- Update of what has been learnt on the project to date presented
- Long term road map is needed

- Then start with a short term smart grid project
- Business cases developed in the 3 municipalities
- Cost benefit analysis should be done for these projects
- Business cases will be completed by end April. Outcomes will be shared if allowed by municipalities
- Lessons learnt were given
- Lack of standards remains a challenge
- Go for open systems
- Firmware should be upgradeable
- Align current reality with the future vision

**19. SPONSORSHIP**

Martin van Staden thanked all the firms who had provided generous sponsorship for the meetings, and also thanked the City of Cape Town for all the facilities that were provided.

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

- |             |                            |          |  |
|-------------|----------------------------|----------|--|
| <b>20.1</b> | <b>16 May 2014</b>         | <b>-</b> | <b>Drakenstein Municipality (Wellington)</b> |
| <b>20.2</b> | <b>15 August 2014</b>      | <b>-</b> | <b>Langeberg Municipality (Robertson)</b>    |
| <b>20.3</b> | <b>13/14 November 2014</b> | <b>-</b> | <b>Knysna Municipality (Knysna)</b>          |

The Chairman thanked all for attending and closed the meeting at 13:30

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