

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

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

**GOOD HOPE BRANCH / GOEIE HOOP TAK**

**MINUTES OF THE 189<sup>TH</sup> GENERAL MEETING OF THE AMEU AFFILIATES/GOOD HOPE BRANCH OF THE ASSOCIATION OF MUNICIPAL ELECTRICITY UTILITIES (SOUTHERN AFRICA) HELD AT THE PINE LAKE MARINA RESORT, SEDGEFIELD ON THURSDAY, 13 NOVEMBER 2014 AND FRIDAY, 14 NOVEMBER 2014**

**NOTULE VAN DIE 189<sup>DE</sup> ALGEMENE VERGADERING VAN DIE VMEU-GEAFFILLIEERDES/GOEIE HOOP-TAK VAN DIE VERENIGING VAN MUNISIPALE ELEKTRISITEITSONDERNEMINGS (SUIDELIKE AFRIKA) BY DIE PINE LAKE MARINA OORD, SEDGEFIELD GEHOU OP DONDERDAG, 13 NOVEMBER 2014 EN VRYDAG, 14 NOVEMBER 2014**

**THURSDAY, 13 NOVEMBER 2014 AT 14:00**  
**DONDERDAG, 13 NOVEMBER 2014 OM 14:00**

**AMEU GENERAL MEETING -Session One**

**ATTENDANCE / BYWONING – 13 November 2014**

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JJG Nel (Johan)	-	Honorary member (neljgg@gmail.com)
J Pereira (Jorge)	-	Retired member (jorgepereira43@yahoo.co.za)

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

The Chairman welcomed all and the session was opened with prayer.

### **1.2 Arrangements/Reëlings**

Mr Martin van Staden gave details of the arrangements for the tea break at 15:30 and a supper which will be held at 18:00.

### **1.3 Acknowledgments/Bedankings**

The Chairman thanked Pine Lake Marina Resort for the use of the facilities, Martin van Staden and the Knysna Municipality for planning the meeting and the Affiliates for their sponsorship.

### **1.4 Announcements/Aankondigings**

Neil Ballantyne was presented with honorary membership of the AMEU by Kevin Grunewald, and a token of appreciation from the Affiliates. Neil then thanked the Branch members and the Affiliates for the honour bestowed on him.

## **2. APOLOGIES / VERSKONINGS**

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- WM Cronje (Willie) - Motla (williec@motla.co.za)  
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**3. CHANGE OF ADDRESS / ADRESVERANDERING**

None

**4. CONFIRMATION OF THE MINUTES OF THE AMEU AFFILIATES / GOOD HOPE BRANCH'S 188<sup>TH</sup> GENERAL MEETING HELD AT THE CALLIE DE WET SPORT CENTRE, CHURCH STREET, ROBERTSON ON FRIDAY, 15 AUGUST 2014.  
BEKRAGTING VAN DIE NOTULE VAN DIE VMEQ-GEAFFILLIEERDES / GOEIE HOOP-TAK, 188<sup>STE</sup> ALGEMENE VERGADERING GEHOU OP VRYDAG, 15 AUGUSTUS 2014 BY DIE CALLIE DE WET SPORTSENTRUM, KERKSTRAAT, ROBERTSON.**

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

4.2 The adoption of the minutes was proposed by Joe Coelho and duly seconded by Danie Maree.

**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**

None

**7. CORRESPONDENCE / KORRESPONDENSIE**

None

**8. REPORTS / VERSLAE**

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

- **Overberg** - No report
- **Wynland** – No report
- **Eden** – Kevin Grunewald reported that a meeting had been held with the South Cape and Karoo members. Matters discussed were smart grids, co-generation, disposal of toxic waste and staff training.
- **West Coast** – Johan du Plessis stated the need to discuss the SALGA – Eskom memorandum of agreement, street lighting and cut-offs.
- **Central Karoo** – No report
- **Cape Metro** - Several ongoing meetings are held between the City and Eskom on operational and planning matters

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

### 9.1 **“Part Night Dimming – Benefits beyond Energy Saving”** - Chris Brown - Venture Lighting

- Introduction of a new concept in street lighting
- Key issues relating to street lighting listed
- Energy wastage – irresponsible lighting wastes energy
- Environmental issues to touched on
  - attraction of moths to lights on the road along the Knysna lagoon affected fish in lagoon!
- Health concerns - affect on night time workers
- Loss of the night – effect on the night sky
- Light, safety and crime – reduction of crimes in lit areas, sometimes the opposite effect is found
- Traffic safety and lighting dimming
- List of uses of part night dimming given for USA
- Venture Lighting Solution for part night dimming was discussed

### 9.2 **“Preventing Disasters with Ground Penetrating Radar”** - Brent Godfrey - Optron (see presentation 9-2)

- Why Trimble? Overview of company detailing evolution of equipment offered
- Why Optron? History of company presented
- Optron overview given
- Explanation of Total Solution approach
  - Scanners, data collection devices
  - Visualise
  - Optimise
  - Organise
  - Software available
  - Maintenance services
- Explanation given of the operation of ground penetrating radar
- Does not work well in wet or salty grounds
- Description of hardware devices shown
- Output and reports explained
- Benefits listed

### 9.3 **“Merits of retrofitting existing streetlights with LED lighting”** - Hendrik Barnard – Consultant for Power Measurements (see presentation 9-3)

- What is impact of street lighting on loss percentage? 3%
- What is cost?
- What is full cost in Rand of street lighting energy
- Power factor?
- Effectiveness?
- Factors relating to existing street lighting listed
- Usage stats presented with Eskom costs.
- Street lighting unit costs listed
- Net present value for replacement with LED street lighting given.
- Break even periods given
- The impact on Municipalities presented in Rand terms
- Retrofit issues given
- LED street lighting issues discussed
- SAN 475 photometric standards given
- Typical site parameters need to be taken into consideration
- Product range listed with use categories
- Heat control is very important to ensure long life of LED lamps
- Problem solving of issues discussed
- Output lumens of LEDs given
- Light vs temperature graph shown
- Forced cooling used to control temperature
- Aluminium housing provide best cooling characteristics

**9.4 “Secondary containment systems and NS1 certified water/oil separation & discharge units” - Ben Hirshovitz - Infrapro South Africa (Pty) Ltd (see presentation 9-4)**

- Introduction and overview of company given
- Discussion of transformer bunding retrofits. Product offering given
- Fully removable and recyclable
- Can be used for temporary transformers
- Sump control system to separate oil and water
- Process for installation discussed
  - Survey, drawings, manufacture of bund, fabrication in workshop, site preparation and installation of bund. Parts are plastic welded, containment test carried out.
- Bund and precast plinth available
- Temporary bunds possible
- Sump separation systems
  - explanation of how it works given
- Accredited to environmental standards

**10. Update on Smart Grids Project – Bruce Raw – GreenCape (see presentation 10)**

- Aims of project explained
- Overview of case studies carried out last year
  - info on GreenCape website
- 2014 Project focus areas explained
- Case studies I George covered
- Stellenbosch also being studied
- Explanation of an sustainable grid given
- Managing change
- Smart meter standards needed – NRS 049-2
- Key focus – split metering
  - interchangeable
  - communications
- Lessons learnt discussed

**11. ELECTION OF OFFICE BEARERS FOR 2015 & 2016 / VERKIESING VAN AMPSDRAERS VIR 2015 & 2016**

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

The following were elected in office for 2015/2016:

Chairman – William Olivier (Mossel Bay)

Vice Chairman – Johan du Plessis (Saldanha Bay)

Honorary Secretary – Neil Ballantyne (Cape Town)

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

Deon Louw (Drakenstein) was elected.

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

Gareth Smit (Zest) was elected

**Close of day’s session at 16:40**

**FRIDAY, 14 NOVEMBER 2014 AT 08:30**  
**VRYDAG, 14 NOVEMBER 2014 OM 08:30**

**AMEU GENERAL MEETING -Session Two**

**ATTENDANCE / BYWONING – 14 November 2014**

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## **RETIRED MEMBERS**



- |                   |   |   |
|-------------------|---|---|
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| J Pereira (Jorge) | - | Retired member (jorgepereira43@yahoo.co.za) |

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

The Chairman welcomed all to the Friday session.

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

## 13. **REPORTS / VERSLAE**

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

**Peter Fowles highlighted the following:**

- Budget covered for 2014 – there is a surplus of R4m
- Sy Gourrah is the new president of Affiliates
- Branch operating guidelines drafted
  - Branch accounting changes explained
- Eskom / Municipality border disputes & service delivery agreements
- Electricity By-laws – Drakenstein’s new By-law to be promulgated
- Overhead powerline workshop SANS 10280-1
- Dti Designation Process – transformers
  - also residential electricity meters, see e-Bulletin September issue; Government Gazette awaited. Specifies local content
- EIUG presentation – concerns on wheeling of energy over municipal networks. Advisory forum to be created.
- Electricity resellers – no decision yet
  - Regulatory framework is needed, not a resellers tariff!
- Draft Regulatory Reporting Manual (RRM) Volume 5 (NFI) open for comment. Document sent to members regarding this
- IBT tariff – influence of Eskom tariff subsidies
- Eskom tariff increase granted 12,69%; effect on municipalities will be 16% on bulk tariffs
- Eskom – funding of supplies – still to be addressed by National Treasury
- Education and training – Eskom, no report
  - Municipal Training workgroup issues covered. Only one trade test to be used. Generic test plus theory test for distribution matters.
- Competency framework for municipal managers
- Technical Committee – Review of EDI’s Asset Status report (ADAM)
  - network maintenance and asset refurbishment
- Solar water heater programme
- Eskom supply status
- Renewable energy / embedded generation
  - City of Cape Town website link for guideline document is [http://www.capetown.gov.za/en/electricity/Application%20Forms/CTGuidelinesforEmbeddedGeneration\\_V26\\_2014\\_10\\_31.pdf](http://www.capetown.gov.za/en/electricity/Application%20Forms/CTGuidelinesforEmbeddedGeneration_V26_2014_10_31.pdf)
- Smart metering – IDC wish to assist municipalities

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

Nothing to report.

## 14. **FEEDBACK FROM SARPA / TERUGVOERING VAN SARPA**

Rens Bindeman reported:

- Working with other Association – IMFO, SALGA, COGTA (Co-operative Governance)
- Branches – some are struggling – Restarting ailing branches
- Opening other Branches in other African countries
- Annual convention next year will now to be held in August 2015
- Non-ferrous metal theft – now committees to combat this have been started. Terms of reference to be drawn up and committee to be rationalised.
- New office bearers elected for Good Hope Branch.

## 15. **PRESENTATION BY ESKOM - “PREVENTING A WESTERN CAPE BLACKOUT”**

**(Paul Davel - Eskom)**

**(see presentation 15)**

- Cape network described
- Operating philosophy different for Western Cape network due to Koeberg Power Station
- N-1 & N-2 scenarios covered
- Supply demand balance explained
  - effect on frequency
  - intervention taken to restore frequency
- Under frequency load shedding explained
  - response to sudden drop of frequency
- Under voltage load shedding – specific to Western Cape
  - Frequency is a national figure – voltage is a regional figure
- Out of step protection – separation of network into islands
  - Future network developments and the effect on out of step protection discussed

## 16. **REPORTS FROM GOVERNMENT DEPARTMENTS / TERUGVOERING VAN STAATS DEPARTEMENTE**

### 16.1 **Department of Local Government / Departement van Plaaslike Owerhede**

**(Joe Renney)**

**(see presentation 16.1)**

- Master plan for every Municipality to be developed over time
- Must comply with frameworks
- Landscape in electricity supply is changing
  - Distributed generation – coal
    - renewable energy )
    - embedded generation ) non-coal
    - natural gas )
  - Master plan needs to cover short, medium and long term
  - Objectives of master plan listed
  - Project phases :
    - Phase 1 Inception
    - Phase 2 Gathering information
    - Phase 3 Municipal growth per town
    - Phase 4 Electrical demand model
    - Phase 5 Study report
  - When would municipalities like to have this done? Please advise Joe Renney.

### 16.2 **Department of Energy / Departement van Energie**

**(Kate Modise)**

**Front loading for electrification (Funding)**

**(see presentation 16.2)**

- Explanation of front loading / pledging given – funding from Banks (eg DBSA)
- Size of funding as percentage of budget
- Process for agreement for transfer of funds covered
- Normal INEP process to be followed

**17. COMPLIANCE / LEGISLATION**

None

**18. INCIDENTS / ACCIDENTS**

None

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

**19.1 “ARP035: Comparing HID to LED and generating cost comparisons” –**

Murray Cronje - Beka-Schröder

(ARP = Approved Recommended Practice)

(see presentation 19.1)

- ARP035 – Guideline for installation and maintenance of street lighting – scope covered in revised document was discussed
  - Tender pricing explained
  - Considerations for lighting distribution and glare restrictions included for LED light sources
  - Energy savings added in revision document
  - All parameters for LED's included
  - Construction requirements for LED luminaires listed
  - Thermal management of LED chip covered – protective components discussed
  - Photometric requirements
  - Sustainable lighting solutions discussed
  - Tender form in ARP035 presented
- Return on investment becomes beneficial for LED's after 4 years for LED scheme shown

**19.2 “A Smart Grid needs Smart Metering” - Willie van Wyk - CT Lab**

- CT Lab has appointed Actom as exclusive distributor in Southern Africa
- IEC61000-4-30 is being revised
- Modbus over IP added to Impedo DUO
- Smart grid monitoring system
- Vecto II – replacement for Vectograph is now available
- Osprey Lite – software Harmonic animation – still compatible – example given

**19.3 “ABB Transformer Service” - Victor Khuboni - ABB**

(see presentation 19.3)

- Overview of concept – transformer total health
- Starts with taking of oil samples
- Use of local service providers – laboratories, etc
- Report giving technical evaluation issued
- Condition monitoring
- Oil filtration and regeneration
- Dry ice cleaning
- Schedule for ongoing maintenance provided
- Supply of spare parts
- Training of staff offered

**19.4 “Introducing a new generation of smart prepayment meters” – Dave Tarr - Landys & Gyr**

- Smart prepayment solution
  - split format – PLC
  - DIN mounted
  - Open standard communications
  - STS

- Can form part of AMI systems
- TOU tariffs possible – has real time clock
- Tariff internal to meter
- Can be used in prepayment or post payment mode
- Open standards for inter-operability
- Alliance of worlds major smart meter manufacturers being put in place to ensure inter-operability
- Powerful smart functionality
- Two way communications via data concentrator
- Hope for standard DIN rail enclosure for all manufacturers
  - bottom entry
  - sealable terminal cover
  - IP54
  - Enclosure sealed for life
  - Zero power tamper sensing
- Functionality of customer interface unit described
- Improved revenue protection features
- Event log facility

**20. ITEMS HELD OVER FOR DISCUSSION FROM 188<sup>th</sup> GENERAL MEETING  
ITEMS WAT OORSTAAN VIR BESPREKING VAN 188<sup>ste</sup> ALGEMENE VERGADERING**

None

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

None

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

None

**23. GENERAL / ALGEMEEN**

It was announced that Len Richardson was retiring. Len thanked all members for their camaraderie of the many years of his membership of the Good Hope Branch. Floris Koegelenberg proposed that Len Richardson be nominated for honorary membership of the AMEU. This was supported by the Branch members.

**24. SPONSORSHIP**

Mr Martin van Staden thanked all the firms who had provided generous sponsorship for the meetings, and also thanked Pine Lake Marina Resort for all the facilities that were provided for the two days of meetings. He also thanked Knysna Municipality, Len Richardson and all his staff for all the arrangements.

The Chairman thanked Martin van Staden for all his hard work in organising the recent AMEU meeting venues and facilities.

**25. DATES AND PLACES OF AMEU MEETINGS  
DATUMS EN PLEKKE VAN VMEU VERGADERINGS**

25.1	20 February 2015	- Gansbaai (Overstrand)
25.2	15 May 2015	- Bellville (Cape Town)
25.3	14 August 2015	- Caledon (Theewaterskloof)
25.4	12/13 November 2015	- Saldahna Bay

**26. Closing of meeting by the Chairman**

The Chairman thanked all for attending and closed the meeting at 12:35.

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