



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

### GOOD HOPE BRANCH / GOEIE HOOP-TAK

**MINUTES OF THE 201<sup>st</sup> GENERAL MEETING OF THE AMEU AFFILIATES/GOOD HOPE BRANCH OF THE ASSOCIATION OF MUNICIPAL ELECTRICITY UNDERTAKINGS (SOUTHERN AFRICA) HELD AT THE BRENTON ON SEA MUNICIPAL HALL, KNYSNA ON THURSDAY 9 NOVEMBER 2017 AT 14:00 AND FRIDAY 10 NOVEMBER 2017 AT 09:00.**

**NOTULE VAN DIE 201<sup>ste</sup> ALGEMENE VERGADERING VAN DIE VMEU-GEAFFILLIEERDES/GOEIE HOOP-TAK VAN DIE VERENIGING VAN MUNISIPALE ELEKTRISITEITSONDERNEMINGS (SUIDELIKE AFRIKA) BY DIE BRENTON ON SEA MUNISIPALE SAAL, KNYSNA GEHOU OP DONDERDAG, 9 NOVEMBER 2017 OM 14:00 EN VRYDAG, 10 NOVEMBER 2017 OM 09:00.**

**THURSDAY, 9 NOVEMBER 2017 AT 14:00**  
**DONDERDAG, 9 NOVEMBER 2017 OM 14:00**

#### **AMEU GENERAL MEETING -Session One**

#### **ATTENDANCE / BYWONING – 9 November 2017**

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

The Chairman welcomed all and the session was opened with prayer, thereafter the Knysna Portfolio Committee Councillor, Lavael Davis, welcomed all to Knysna and addressed the meeting.

Rens Bindeman welcomed all the PIESA delegates from Zambia and Malawi to the meeting.

### **1.2 Arrangements/Reëlings**

Martin van Staden gave details of the arrangements for the tea break at 15:15, and an evening meal at the Riverdeck Restaurant from 17:30.

### **1.3 Acknowledgments/Bedankings**

The Chairman thanked Gareth Smit, Martin van Staden, Michael Rhode and the Knysna Municipality staff for planning the meeting, and the Affiliates for their generous sponsorship.

#### 1.4 **Announcements/Aankondigings**

Delegates were asked to collect RF tags from Aberdare's table on Friday morning for the Abertrak system demo.

#### 2. **APOLOGIES / VERSKONINGS**

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#### 3. **CHANGE OF ADDRESS / ADRESVERANDERING**

Martin van Staden has moved to Ontec.

#### 4. **CONFIRMATION OF THE MINUTES OF THE AMEU AFFILIATES / GOOD HOPE BRANCH'S 200<sup>th</sup> GENERAL MEETING HELD AT THE GERMAN CLUB, 75 KLEIN PARYS AVE, PAARL ON FRIDAY 11 AUGUST 2017.** **BEKRAGTIGING VAN DIE NOTULE VAN DIE VMEO-GEAFFILLIEERDES / GOEIE HOOP TAK, 200<sup>ste</sup> ALGEMENE VERGADERING BY DIE DUITSEKLUB, KLEIN PARYS LAAN 75, PAARL GEHOU OP VRYDAG, 11 AUGUSTUS 2017.**

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

4.2 The adoption of the minutes duly accepted by the meeting.

#### 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 19 BYKOMENDE ITEMS VIR BESPREKING UNDER ITEM 19**

None

#### 7. **CORRESPONDENCE / KORRESPONDENSIE**

None

## 8. Presentations by Affiliates / Aanbiedings deur Geaffilieerdes

### 8.1 **“Efficient LED/SOLAR Streetlighting” - Michelle Huang - SZZT South Africa** (See presentation 8-1)

- SZZT's vision was stated
- Range of LED luminaires was shown
- Has SABS approval as well as ISO 9001, SANS standard
- Smart lighting solutions listed
- SZZT energy efficiency services offered
- Why LED lighting?
- Zero upfront payment rental proposal explained
- Case study presented
- Solar LED streetlights are available
- LED lighting range shown
- Advantages of LED lights was listed
- Examples of projects was shown
- Solar home offering explained for non-electrified homes.

### 8.2 **“SMART CITIES – should you care?” - Wilhelm Herbst - Optron** (See presentation 8-2)

- Video shown on smart cities globally
- South Africa is urbanising
- This leads to congestion and shortages
- What does the Constitution say?
- Need solution to move forward
- Smart Cities? Is it the solution? Definition of Smart City – a few listed
  - o Video shown
  - o Co-operation needed between departments and with citizens
  - o Interconnection of the “Internet of Things”
- Reasons for going to Smart Cities discussed
- Electricity revenue statistics for municipalities shown
- Smart Cities need to work with Electricity Departments
- Municipalities need internet connectivity
- Systems need to talk to each other
- Use free and open software
- Steps towards smart cities discussed.

### 8.3 **“The Benefits of a Smart Prepayment Solution” – Dave Tarr - Landis & Gyr** (See presentation 8-3)

- The benefits of smart prepayment was explained
- New technology allows for new opportunities
- Using open standards for communication
- Data concentrators used
- Convergence of smart and prepayment solutions
- Smart solution building blocks listed
- Smart prepayment solution shown
- Benefits – technical value given and discussed
- Conclusion given.

### 8.4 **“Latest developments of LED in Public Lighting” - Daniel Kasper - BEKA Schröder** (See presentation 8-4)

- Upfront “take-aways” listed – Energy reduction, white light and cost reduction
- The phases of the transformation of the light market presented
- Business model for LED lights given
- Value chain is changing
- Update of LED technology given
- Discussion of lumens/Watt shown
- New technology of laser diodes, but for certain applications only

- Communication using light – LiFi – discussed
- Streetlighting trade-offs given
- Types of LEDs shown and applications discussed
- Roadmap of LEDs into the future shown
- Efficiency of LEDs discussed – current vs light output
- Luminaire design discussed
  - o Surge protection
  - o Open or closed fittings
  - o Fittings need to be cleaned regularly.

**9. Information from Eskom - "OPC - Integration of different technologies to manage and run our electricity grid" - Chris Malabie - Eskom**

- Topics to be discussed listed
- Historical grid development covered – effect of metering, generation mix, tariffs, communication
- Smart grids definition given
- Goals for smart grids presented
- Difference between existing and smart grids compared
- The changing face of future grids explained
- Components of smart grids listed
- Summary of smart grids presented
- Priorities of components rollout chosen by grid operators
- High level conceptual model shown – energy flow and data flow
- Distribution management system discussed with its architecture
- Introduction of OPC given
- OPC benefits listed
- Examples of OPC in Eskom Distribution mentioned.

**10. Feedback from SARPA / Terugvoering van SARPA**

Rens Bindeman reported:

- Need to get all branches working properly
- Infrastructure theft – SARPA is assisting the Hawks
- International training is being done in South Africa
- Advance revenue protection training has been developed
- World-wide WhatsApp groups have been set up for feedback from other countries.

**Close of day's session at 17:40**

**FRIDAY, 10 NOVEMBER 2017 AT 09:00**  
**VRYDAG, 10 NOVEMBER 2017 OM 09:00**

**AMEU GENERAL MEETING -Session Two**

**ATTENDANCE / BYWONING – 10 November 2017**

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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 Chairman thanked Michael Rhode for the previous evening's arrangements which were enjoyed by all.

Councillor de Villiers from George Municipality welcomed all to George and addressed the meeting.

The Chairman handed out badge for those Good Hope Branch members who received Honorary Membership at the recent AMEU Convention –

- Roelof du Toit from Swartland Municipality (nominated by Michael Rhode). Belinda Marais received the badge on Roelof's behalf as he was not able to attend the meeting.
- Kevin Grunewald recently retired from George Municipality (nominated by Johan Nel).



Arrangements for the morning were announced, tea being at 10:30 and lunch at 13:00.

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

### **12.1 “New cloud prepaid vending platform and Apps” – Francois Bosch – Netelek (See presentation 12-1)**

- Concept of cloud explained – provision of a service instead of the installation of a product on in-house servers and databases
- No own hardware is needed
- Resultant community benefit
- Use of smart phone apps for vending
- Operational benefit for a transaction fee of 3,5%
- Single consolidated revenue portal.

### **12.2 “Demonstration of Abertrack RFID (Radio-frequency ID) system – Henni Scholtz / Raven Mahabeer / Geoffrey Morris (Agile Innovations) – Aberdare Cables**

- Demonstration of cable drum tracking system given
- Henni Scholtz gave an introduction
- Introduction of RF tracking system is possible in the SAP or any enterprise system
- Examples of cables shown
- Update on anti-theft initiatives given
- Raven Mahabeer explained the value of the IT system and the Porter’s value chain
- The need within the Aberdare factory for the need for a tracking system was explained
- Benefit of an RF tag tracking system over a manual system presented
- Function of the system explained
- Portal is used to track cable drum movements
- Geoff Morris demonstrated the system
- RF tags provide for the continuous tracking for up to 5 years with access world wide
- It forms an automatic inventory system.

### **12.3 “Municipal and Government Services offerings by SABS” – Shaan Singh – SABS (Presented by Warren van der Merwe for Shaan Singh)**

- Questions to ask for efficiency and effectiveness were listed
- What SABS does was explained – Commercial (SDC) Ltd background given
- Creation and revision of standards explained
- Municipal service offering presented
- SABS and ISO compliance certification
- NETFA test facility available
- SABS mark of approval covered
  - o Need standard against which to test
  - o Need ability to test product and audit capability
  - o Need for mark explained
  - o Voluntary and compulsory marks covered
  - o Mark gives recourse for consumers
- Tender requirements – advice given to municipalities
- The advantage of SABS Approval Mark was explained
- World type 5 Mark scheme discussed.

**Jack Carne from Genlux Lighting** mentioned the fully designed and manufactured LEDs and luminaires they have available.

#### 12.4 “Distribution Monitoring Initiative” – Willie van Wyk – CTLab

- Discussion of managing waste, improving longevity of assets
- Improving power quality
- Improving service delivery
- Smarter ways to manage networks
- Pioneering technology to Smarter Distribution
- Industry challenges – change from load driven system to generator driven system
- Smart meters seem to be the solution, but . .
  - o Are they clever enough
  - o Unable to digitise the dynamic state of networks
- Explanation of what a Distribution Monitoring system does was given
  - o Cloud based system
  - o Mobile device friendly web interface
- Demo of system shown
- New Vecto III is available for HV system monitoring – built in modem and wifi
- New Vecto Node (replaces Vecto II) for LV distribution system monitoring
- New Osprey Pro
- Volume discount available.

### 13. Education and Training

#### Presentation by Paul van Niekerk (Pr. Eng. FSAIEE, SAIEE Southern Cape Centre) on “Infrastructure Skills Development Grant and the road to registration for Engineers”

(See presentation 13)

- Country needs trained engineers
- University teaches theory but need to teach practical aspects of job
- Registration is governed by Engineering Professional Act 2001
- Registration available is Pr Eng, Pr Cert Eng, Pr Tech Eng
- Competency standards were explained
- Mentee placed with manager (mentor)
- Responsibility levels during training explained
- Registration and definition, and educational qualifications listed
- Road to registration explained – minimum total 7 year period
- Development process of trainee engineers presented
- 11 Outcomes have to be achieved in 5 groups
- Suitable projects for registration listed
- Forms process was explained
- ECSA code of Conduct explained
- SAIEE and Municipal Academy formed – grant made available by National Treasury
- Integrated Skills Development Grant (ISDG) is available to municipalities
- Way forward presented
  - o Involvement of AMEU and local municipalities – funding for salaries available from National Treasury for training of trainees who are seconded to municipalities.

### 14. Reports from Government Departments / Terugvoering van Staats Departemente

#### 14.1 Update from GreenCape on projects, latest changes and predicted paths for regulation and policy (Bruce Raw)

(See presentation 14-1)

- Introduction given as what GreenCape is
- Concentrate of renewable energy field
- Rules and regulations guidelines developed to assist municipalities
- SSEG installations are increasing
  - o Large number are installed without being registered
  - o Only one third are being registered
- SSEG tariffs – impact of SSEG on revenue of municipalities discussed – impact on revenue is manageable

- Additional SSEG update
  - o PV Green Card initiative explained
  - o National PV Installers qualification to certification
- Assisting City of Cape Town with wheeling of power
  - o NERSA show no intent in developing guidelines for power wheeling
  - o Pilot to be tested in City of Cape Town, then plan to make this available to all municipalities
- SSEG financing discussed
  - o Green Investment Bank planned
  - o To be created in conjunction with Development Bank of SA
  - o PACE – Property Assessed Clean Energy explained – needs to be legislated before this can be implemented
  - o PAYS – Pay As You Save – Utility acts as lender and invoices for service provided
- Green Transport being looked into for future application
  - o For managing battery charging infrastructure
  - o Funding is available and companies want to roll this out.

**14.2 Department of Local Government / Departement van Plaaslike Owerhede (Njabulo Dube)**

No report is meeting.

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

No report is meeting.

**15. Reports / Verslae**

**15.1 Representatives on the Executive Council / Verteenwoordigers op die Uitvoerende Raad (Nombulelo Zwane)**  
 (See presentation 15-1)

Highlights covered:

- Legal and Statutory Committee
  - o Distribution boundary issue between Eskom and municipalities
- Publicity and Papers Committee
  - o Convention papers are on the AMEU website
  - o 2018 Convention planning underway and suggestions welcomed
- Tariff Committee
  - o NERSA public hearings are underway
- Technical Committee
  - o SIP10 Maintenance of networks
  - o Signing of joint paper by DoE and Housing Department
- Training and Education
  - o Eskom Academy of Learning – access to thereto for municipalities possible
  - o Skills Development Grant available
- Vally Padayachee (Strategic Advisor) commented:
  - Notified maximum demand policy with Eskom – Municipalities can apply for exemption if they exceed the set level
  - Wheeling charges – NERSA promises to take this further
  - Solar water heating programme could be rolled out in the future again.

**16. COMPLIANCE / LEGISLATION**

None

**17. INCIDENTS / ACCIDENTS**

None

**18. ITEMS STANDING OVER FOR DISCUSSION FROM 200<sup>TH</sup> GENERAL MEETING.  
ITEMS WAT OORSTAAN VIR BESPREKING VAN DIE 200<sup>STE</sup> ALGEMENE VERGADERING.**

None

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

None

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

None

**21. GENERAL / ALGEMEEN**

None

**22. SPONSORSHIP**

In Gareth Smit's absence, Martin van Staden thanked all the firms who had provided generous sponsorship for the meetings, and also thanked Knysna Municipality for all the facilities that were provided for the two days of meetings, and their staff. Monique Sass was thanked for arranging the spouses' programme.

**23. DATES AND PLACES OF AMEU MEETINGS  
DATUMS EN PLEKKE VAN VMEVO VERGADERINGS**

- 23.1** 16 February 2018 – Hermanus (Overstrand Municipality)
- 23.2** 11 May 2018 – Ceres (Witzenberg Municipality)
- 23.3** 17 August 2018 – Malmesbury (Swartland Municipality)
- 23.4** 8/9 November 2018 – Witsand (Hessequa Municipality)

**24. CLOSING OF MEETING BY THE CHAIRMAN  
SLUITING VAN VERGADERING DEUR DIE VOORSITTER**

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

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