



ELECTRIFICATION ADVISORY COMMITTEE
MINUTES OF THE MEETING HELD AT MASERU, LESOTHO, SOUTH AFRICA
ON 7-8 NOVEMBER 2018

MEMBER (Attendees)

Mr Chabeli Ramaisa	Member, LEC (Chairman)	Present
Mr Vally Padayachee	Secretariat	Present
Tsosi Makhetha	LEC	Present
Mampili Kotelo	LEC	Present
Refiloe Qligeng	REU	Present
Mr Francis H. Nyikayaramba	Member, REA Zimbabwe (Minuting)	Present
Ms Jacqueline Mbewe	Secretary, AMEU	Apology
Isaac Serwadda	Member, UMME	Apology
Mr Gibson Kasipo	Member, ZESA	Apology
Mr Gyavira Bwalya	Convenor, ZESCO	No Apology

Dr Hendri Geldenhuys	Deputy, ESKOM	No Apology	
Mr David M Mbewe	Member, ESCOM	Apology (<i>now retired</i>)	
Mr Robert Semsella	Member, TANESCO	No Apology	
Mr David Bavin	Member, TE Connectivity	No Apology	
Mrs Patricia A Ocan	Member, UMEME LTD	No Apology	
Mr Uresh Singh	Member, Reinhausen	No Apology	
Eng Benson b. Oungo	Member, REA Kenya	No Apology	
Mr Alastair Gerrard	Member, ZEST WEG	No Apology	
DISCUSSION ITEMS		BY WHOM	BY WHEN
1. Opening/Welcome/Apologies			
Mr Chabeli Ramaisa opened the meeting and welcomed all members. All members introduced themselves. Apologies and non-apologies as per above register	All	N/A	
2. Reading And Confirmation of the Agenda			
Reading and confirmation of Agenda: the following areas were added to the Agenda before it was subsequently confirmed <ul style="list-style-type: none"> a. The addition of the 4th industrial revolution b. Micro-grids 	All	N/A	

3. Reading And Confirmation of the Previous Minutes		
<p>Reading and confirmation of the minutes</p> <ul style="list-style-type: none"> a. On page 3: Correction of name to read “Mr. Padayachee” b. On page 4: correction of the ‘by when’ due date for Mr. Uresh Singh to read “2018” instead of “2016” c. Confirmed minutes by the proposal by Vally and seconded by Chabeli 	All	N/A
4. Matters Arising from Previous Minutes		
<p>1. Page 3: KPLC – there has been efforts to communicate but no response or result has happened. Maybe the person has left so there is need to find additional communication channel</p> <p>Regarding attendance in general, was noted that the membership and attendance of meetings remains low (<i>four member countries in Maseru</i>) and the committee discussed the following:</p> <ul style="list-style-type: none"> a. The secretariat through the channels discussed in May, Cape Town to keep pursuing participation b. Continue using the WhatsApp group which has proven welcome and effective 	Secretariat	On Going

<p>c. Adopt the participation in webinars and using skype and <i>go-to-meeting</i> platforms, some of which can provide for real interactive presentations</p>		
<p>2. The Page 3: Present the statistics during the meetings 20% for Umeme of Uganda 40% for Lesotho 40%– percent for Zimbabwe</p>	All	Date?
<p>3. Page 3: item 4 part 1: (the 3 technologies identified for expanding electrification) - the item remains ongoing under the secretariat</p>	Mr Padayachee	Date?
<p>4. Page 4: training – a submission by Vally is to be presented on a possible mini MBA like to possibly be funded by IERE</p>	Mr Padayachee	Date?
<p>5. Strategic Plan</p>		
<ul style="list-style-type: none"> The committee reviewed its strategies through and the following were the main issues that came out: 	All	N/A

<ul style="list-style-type: none"> ○ Align the electrification strategies to Africa Agenda 2063 in activities. ○ Focus on further and accelerated training, developing, upskilling, mentoring of core and key competencies to include e-mobile knowledge mentoring, e-Learning, etc to execute on the electrification projects. ○ Procurement of cost effective funding and grant funding for electrification projects ○ Increased incorporation of alternative energies in the respective member country energy mix to include renewable energies, energy storage ○ Explore alternative business models to mitigate against revenue erosion, increasing non-technical losses, increasing ingress of distributed generation by third parties ○ Continued focus of grid and off grid electrification. ○ Explore electrification of so called “informal settlements”. <i>(share South African DoE policy around proclaimed and unproclaimed areas)</i> ○ Focus on “densification” (in an existing electrified areas) and “intensification” (expanding electrification geography) ○ Exchange Rural Electrification funding models <i>(Uganda & Zimbabwe to share document their funding models)</i> ○ Explore the use of “blockchain technology” to fast track electrification, development of evolving business models, incorporation of alternative energies and energy storage in the energy mix. <i>The focus can be on smart contracts (electronic contracts)</i> 		
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<ul style="list-style-type: none"> ○ Focus on group procurement of long lead items e.g. mini subs, transformers, cables, switchgear, services to fast track and avoid delays w.r.t electrification projects (<i>SA to share MISA national contracts framework</i>) ○ Explore partnership with third parties e.g. DFI's, private sector, etc to assist in fast tracking electrification ● On the 4th industrial revolution the committee agreed to focus on: <ul style="list-style-type: none"> ● Non technical losses ● Revenue collection ● IOT ● Data management ● Analytics ● Energy Storage ● Digitalization ● Smart metering ● Cyber-security (<i>what percentage of capital investments into smart projects should be allocated for cyber security – is 10 to 15% sufficient</i>) 		
6. Report to Plenary Meeting		
<ul style="list-style-type: none"> ● Power point attached to be read with the minutes 	Francis Nyikayaramba	8/11/2018
7. Additional Items		
<ul style="list-style-type: none"> ● Attached Document: Power Point Presentation at Plenary 		
8. Date of next meeting		
<ul style="list-style-type: none"> ● Cape Town 	All members	May 2019

9. Closure

- Meeting closed at 16h30

1. MATTERS NOTED:

- a. It was proposed that :
 - i. Mr Isaac Serwadda (UMEME) to take over as new Deputy Chairman/Convener
- b. The poor attendance of members was also **noted**. Some redress was required to improve future attendance
- c. The list of Advisory Group members to be reviewed – the respective member countries and Eskom to reconfirm their representatives
- d. Engage KPLC (Kenya) to share information on their electrification projects

[Action: Secretariat]

- e. The PIESA member Utilities are encouraged to implement the electrification projects in their respective countries, which have been tried and tested by the other PIESA countries
- f. The Advisory Group noted the new definition for access to electrical energy that was approved by the PIESA Board at its meeting in Cape Town in May 2017. It was also noted that member countries would report their future electrification statistics against this new definition – Mr Padayache to design a template and circulate to members for capturing of information- the access to electricity definition to form part of the template.

[Action: All]

g. The possible use of “blockchain technology” as a means to cost effectively fast track and expand electrification was discussed and the meeting agreed to avail itself to further information on block chain technology similar to the presentation that was done by Mr Padayachee at the plenary session

[Action: Vally Padayachee]

h. The meeting agreed that the effort to pursue a possible collaboration and/or cooperation with Power Africa should be continued

[Action: Vally Padayachee]

i. The meeting decided to continue to explore further evolving business models with a view to address and mitigate the risks associated with revenue erosion the change in the energy mix especially distributed energy e.g. the ingress of renewables, increasing non-technical losses, etc

j. It was agreed to continue exploring the possible centralised procurement of long lead items e.g. transformers, cables, switchgear and services to mitigate against the delay in completing electrification projects

k. The meeting agreed to recommend to the Board that field trips be organised at PIESA meeting venues i.e. in member countries. In this respect it was felt that the meeting venues should be carefully selected to ensure value add field trips could be arranged.

l. Member utilities were encouraged to submit their electrification statistics reports timeously

[Action: All]

m. It was agreed to also investigate the introduction of relevant training, development, e-learning (includes e-mobile), mentoring as a means to upskill manpower resources to ensure the successful execution of various electrification projects in member countries.

n. It was agreed to explore other communication methodologies e.g. Skype, Zoom, etc. to enhance communication between members

- o. The meeting agreed to focus on the following strategies going forward:
- i. Align electrification strategies to Africa Agenda 2063 – 50 years agenda initiated in 2013- Mr Payadache to circulate
 - a. PIESA EAG resolved to focus on 7 Aspirations
 - ii. Focus on further and accelerated training, developing, upskilling, mentoring of core and key competencies to include e-mobile knowledge mentoring, e-Learning, etc to execute on the electrification projects. Also target Power Africa for funding
 - iii. Procurement of cost effective funding and grant funding for electrification projects
 - iv. Increased incorporation of alternative energies in the respective member country energy mix to include renewable energies, energy storage- **Find a sponsor to conduct feasibility studies for micro grids preferably in all PIESA member countries e.g ABB**
 - v. Explore alternative business models to mitigate against revenue erosion, increasing non-technical losses, increasing ingress of distributed generation by third parties eg ingress of renewables on the distributed network (i.e. “two-way- flow of electrons”) to ensure sustainability and viability of utility business- **Each member country to explore the need for a changing business model given the challenges prevalent in their respective countries viz; “ the kWh business model may be dead’**
 - vi. Focus on grid electrification (SA 90%) and non-grid electrification (SA 10%)
 - vii. Explore electrification of so called “informal settlements” noting that South Africa has now formalised the electrification of the so called “informal settlements”
 - viii. Focus on “densification” (in an existing electrified areas) and “intensification” (expanding electrification geography)
 - ix. Focus on rural electrification – look at Zimbabwe, ZESA has a good rural electrification funding model and UMEME rural electrification model
 - x. Explore the use of “blockchain technology” to fast track electrification, development of evolving business models, incorporation of alternative energies and energy storage in the energy mix

- xi. Focus on group procurement of long lead items e.g mini subs, transformers, cables, switchgear, services to fast track and avoid delays wrt electrification projects
- xii. Explore partnership with third parties e.g. DFI's, private sector, etc to assist in fast tracking electrification

3. DATE OF THE NEXT MEETING

May 2019 - Cape Town

The chairman thanked members and closed the meeting.

Chairman

Date