



DRAFT PROGRAMME

THIRD AFRICA SMART GRID FORUM including

Free Pre-conference seminars and tutorials for forum delegates only

1-4 OCTOBER 2018

KIGALI RWANDA

1-2 October: Pre-conference Seminars and workshops

Monday 1 –Tuesday 2 October

09:00 – 17:00	AFREC Seminar energy efficiency – by invitation
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Monday 1 October

08:30 – 09:00	Registration of delegates
09:00 – 17:00	US –Africa Clean Energy program/ANSI workshop Standards to Promote Interoperability: Interconnection code compliance a& correction actions

Tuesday 2 October

08:30 – 09:30	Registration of delegates
09:30 – 12:00	Seminar on Low voltage DC technology, standards and its role in providing electricity access in Africa – Facilitated by IEC Ambassador Vimal Mahendru
13:30 – 16:30	Tutorial - telecommunications network infrastructure for enabling of smart grid - Zwelandile Mbebe– Member of Cigre SC D2

09:00 – 16:30	Meetings of AFSEC Technical committees (ATC 8, 13, 57, 82) – closed meetings
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16:30 – 17:30	Registration of delegates
17:30 – 18:30	Opening ceremony -Welcome by the Minister of Infrastructure, Rwanda - Address by the AFSEC President - Key note address of the African Union Commission – Commissioner Infrastructure and Energy
18:30 -20:00	Opening of exhibition and welcome cocktail/ registration of



delegates –open to all delegates

Wednesday 3 October: Plenary sessions followed by parallel technical sessions

08:00 – 8:45	Registration of delegates /refreshments
Session 1 – Plenary session - Addresses by International partners	
08:45 -09:05	1.1 Address by representative of the IEC
09:05- 09:25	1.2 Address by representative of CENELEC
09:25-09:45	1.3 Address by representative of IEEE
09:45 -10:05	1.4 Smart Grid – What Is The Business Case? Prince Moyo Pr Eng FSAIEEE Chairman: Southern Africa National Committee CIGRE
10:05 -10:25	1.5 Address by representative of SGCC

10:25 -11:00	Coffee break/exhibition viewing
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Session 2- presentation – international smart grid experiences	
11:00 -11:30	2.1 China's smart grid experience (SGCC representative)
11:30-12:00	2.2 France's smart grid experience - Presentation by YELE
12:00-12:30	2.3 USA's smart grid experience

12:30 -14:00	Lunch and exhibition viewing
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Parallel Technical Sessions		
14:00 -16:30	Session 2A – Smart grid initiatives in African countries	Session 2B – Power quality and energy management
14:00 – 14:30	2A.1 Sudan SUDANESE ELECTRICITY DISTRIBUTION COMPANY LTD – Engineer ELGUNDI YASSIN SALIH	2B.1 The implementation of UPQC technology to mitigate both current and voltage based power quality problems in modern distribution grid. NGOGA B. Julius, Xi'an Jiaotong University, Rwanda
14:30 -15:00	2A.2 Ghana BARRIERS AND PROSPECTS OF SMART GRID	2B.2 –Egypt Active power filters



	INTEGRATION IN AFRICA – A Acakpovi	Tombe Tongun University of Alexandria, Egypt
15:00 -15:30	Break/exhibition viewing	
15:30 – 16:00	2A.3 Smart Grids in megacities: Global and African experiences De-colonising Technology for African Utilities: An eThekweni Electricity Case Study South Africa- J Hunsley et al	2B.3 Framework for Net Zero Energy in Buildings N K Twun-Duah, Grenoble INP
16:00 – 16:30	2A.4 Egypt- Dr M Soliman <i>Egyptian Experience : From Power Shortage, to an agile Smart Grid</i>	
16:30 -17:00	2A.5 Côte d'Ivoire "Wide Area Measurement System" project on the Côte d'Ivoire Energy Transmission Network.	

Thursday 4 October: Parallel technical sessions and closing session

	Session 3A – Transmission & Distribution	Session 3B – ICT and Data management
09:00 -09:30	3A.1 La numérisation des postes au coeur des Smart Grids RTE France	3B.1 How ICTs are making power grid smart Sebastian Namukolo & Ackim Zulu - Zambia
09:30 -10:00	3A.2 Intelligent substation – third generation –X Qianzhu, SGCC	3B.2 The Current Status of Digital Metrology
10:00 -10:30	3A.3 Digitization of Energy Transmission & Distribution in Africa General electric	3B.3 Handling of legacy end devices and services on utility packet networks Mbebe –Eskom ZA
10:30 -11:00	Coffee break/exhibition viewing	
11:00- 11:30	3A.4 Application of digital	3B.4 The Convergence of ICT



	substation in power delivery networks in Africa Martin Kaih Kasanga Grenoble-INP	and the Energy Sector Walter Waziri Jonathan -Kenya
11:30 -12:00	3A.5 Application overview of Artificial intelligence in power system Dr Tian SG EPRI	3B.5 Internet of things solution architecture Guo Shen China Electric Power Research Institute
12:00 -13:30	Lunch break	
	Session 4A – smart metering	Session 4B – Renewable energy and off-grid systems
13:30 -14:00	4A.1 Smart Metering in Egypt	4B.1 Critical factors for successful Mini-Grid Electrification: the Ghana experience Ing. Mahu Seth Agbeve Ghana Deputy Director, Renewable Energy, Ministry of Energy)
14:00- 14:30	4A.2 Applications of Data Science to Mini-Grid Smart Meter and Survey Data Nathan Williams, Carnegie Mellon University	4B.2 IMPACT OF GRID CONNECTED MICRO-GRIDS ON THE NATIONAL GRID IN AFRICAN STATES Nana Kofi Twum-Duah Grenoble - INP
14:30 -15:00	4A.3 AFSEC guide 02 Application of standards for smart metering in Africa	4B.3 Stochastic Techno-Economic Microgrid Model – A Microgrid Investment Risk Assessment Tool: Model Development and Case Study Bobson Rugambwa a, Lefu Maqelepo b, Nathaniel J. Williams c, Paulina Jaramillo
15:00 -15:30	Coffee break	
	Session 5 - plenary and closing session	
15:30 -16:00	5.1 Roles of Governments and Financial Institutions Walter Waziri Jonathan -Kenya	
16:00 -16:30	Panel Discussion. – <i>The smart way forward for Africa's development</i> Panelists: IEC/CENELEC/Cigre/AfDB/AUC/AFREC/AFSEC	
16:00 –	Summary and close	



17:00	
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Friday 5 October

Optional technical and cultural visits

To be determined by local organizing committee