

Grid Reliability and Utility Operations Conference

4-5 February 2020, Accra, Ghana

Agenda

| Day 1 – Tuesday 4 February 2020 – Morning session | |
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| 8:15 | Registration |
| Setting the context | |
| 9:00 | Welcome Dr Linda Davis, Giraffe Bioenergy |
| 9:10 | Introduction to EEG and the conference Simon Trace CBE, EEG/Oxford Policy Management |
| 9:25 | Keynote presentation Mr Martin Eson-Benjamin, Millennium Development Authority |
| 9:50 | ESMAP: enabling energy and climate strategy Samuel Oguah, ESMAP/World Bank |
| 10:10 | MCC's work in the energy sector Ishani Desai, Millennium Challenge Corporation |
| 10:35 | Coffee/tea break |
| 11:05 | GridWatch: measuring electricity reliability with GridWatch sensors in West Africa to inform energy decisions Prof Catherine Wolfram and Noah Klugman, University of California, Berkeley |
| 12:05 | Dispatch Efficiency: a system health check Samuel Oguah, ESMAP/World Bank |
| 12:35 | Lunch |
| Afternoon session to resume at 13:35 – see page 2 | |

| Day 1 – Tuesday 4 February 2020 – Afternoon session | |
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| Enhancing participation of women in the energy sector | |
| 13:35 | Closing gaps in women’s employment in the energy sector: initial findings from Africa and South Asia Pamela Baldinger, ESMAP/World Bank |
| | The Ghana Power Compact Internship and Mentoring Program Dr Cherub Antwi-Nsiah, Millennium Development Authority |
| Power system planning and expansion in Ethiopia and Ghana | |
| 14:35 | Load forecasting and distribution network planning for Mekelle City Yemane Brhane Tesfay, Mekelle University and Mekelle Institute of Technology |
| | Generation expansion planning using Python software and LOLE criterion Abdul-Majid Issah Malori, Kwame Nkrumah University of Science and Technology |
| 15:35 | Coffee/tea break |
| The impact of unreliable supply on economies, livelihoods and energy sectors | |
| 16:05 | The cost of power outages to Zambia’s manufacturing firms, households and the climate Imad Ahmed, University College London / Vivid Economics |
| | Power quality and modern energy for all Veronica Jacome, University of California, Berkeley |
| | The vicious circle of blackouts and revenue collection in developing economies: evidence from Ghana Dr James Dzansi, International Growth Centre |
| 17:25 | Wrap-up Dr Linda Davis, Giraffe Bioenergy |
| 17:45 | Cocktail reception |

| Day 2 – Wednesday 5 February 2020 – Morning session | |
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| 9:00 | Welcome to the second day Dr Linda Davis, Giraffe Bioenergy |
| Voltage and power quality: lessons from Ethiopia | |
| 9:10 | Characteristics and propagation of short-duration voltage events Dr Leake Enquay Weldemariam, Mekelle University and Mekelle Institute of Technology |
| | Awareness creation on power quality (PQ) problems in industrial customers Awet Mana Amare, Mekelle University and Mekelle Institute of Technology |
| | Reliability and voltage sags – the process of regulating voltage sags Alula Yohannes Taddesse, VP Electrical Power Systems |
| 10:30 | Coffee/tea break |
| Utility reforms and service delivery | |
| 11:00 | A comparative analysis of economic activities spurred by two different types of electricity distribution Mr Badri Nath Baral, Winrock International |
| | Are cost-reflective tariffs the solution? Assessing Mozambique Electricity Supply Company challenges to provide affordable and reliable services to residential customers Dr Daniela Salite, University of York |
| | Electricity reliability patterns in grids and mini grids in East Africa – a collaboration between RAEL and Sparkmeter Isa Ferrall, University of California, Berkeley |
| 12:20 | Lunch |
| Afternoon session to resume at 13:20 – see page 4 | |

Day 2 – Wednesday 5 February 2020 – Afternoon session

| The role of emerging technologies | |
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| 13:20 | <p>Monitoring reliability in India Shweta Kulkarni, Prayas (Energy Group)</p> <p>The role of open source reliability data in shaping electricity service delivery conversations Brian Kinuthia, EED Advisory</p> <p>Role of Digitalisation in Improving Grid Reliability and Efficiency in Africa’s Power Sector: Evidence from Ghana Doris Agbevivi (Energy Commission) and Wofa Kwarteng (GridCo Ghana)</p> |
| Evidence on the impact of metering | |
| 14:40 | <p>The Impacts of prepaid metering on household electricity consumption in Ethiopia Dr Sied Hassen Mohamed, Policy Studies Institute</p> <p>Enforcement in electricity services: evidence from a randomized smart meter experiment in Kyrgyzstan Prof Robyn Meeks, Duke University</p> |
| 15:40 | Coffee/tea break |
| Reviewing the key issues and looking to the future | |
| 16:10 | <p>Uneven progress: challenges in reforming the power sector in Malawi Corinna Bordewieck and Dr Daniel Sabet, Social Impact</p> |
| 16:40 | <p>Panel and plenary discussion on how research can deliver reform Ing William Amuna, Millennium Development Authority Simon Trace CBE, EEG/Oxford Policy Management Prof Catherine Wolfram, University of California, Berkeley</p> |
| 17:30 | <p>Closing remarks Simon Trace CBE, EEG/Oxford Policy Management</p> |