

## KENYA POWER E-MOBILITY FORUM 2024

### INTRODUCTION

E-Mobility is gaining traction in the industrialised nations, and currently, according to the International Energy Agency Global EV outlook for 2022, there are an estimated 20 million electric vehicles on the road globally.

In Kenya, data on New Vehicle Registration Statistics by Fuel Type in the past 6 Years (2017-2023) indicates there are at least 2,100 electric-powered vehicles currently on the country's roads, ranging from two-wheelers, three-wheelers and four-wheelers. The country's target is to have 5% of vehicles registered as being electric by 2025 (National Energy Efficiency and Conservation Strategy, 2020).

Instructively, Kenya is a global green energy leader, with the country's energy mix comprising over 92% of renewable power. Kenya presently has an installed capacity of 3246 MW (December 2023) and an off-peak load of 1100 MW. This means there is enough power to support the entire E-mobility ecosystem, including powering charging stations for domestic and business use.

To accelerate the uptake of EVs and attendant infrastructure, Kenya Power has organised its **2nd E-Mobility forum**. The two-day event will bring together all the key stakeholders driving e-mobility in Kenya and the region. The event, which is themed 'Accelerating the Adoption of Electric Mobility in Kenya,' will take place at the **Kenyatta International Convention Centre (KICC)** on **23<sup>rd</sup> and 24<sup>th</sup> April 2024**.

### PROPOSED PROGRAMME:

The day's programme, topics, and speakers are as detailed below:

DAY 1 - Tuesday, 23 <sup>rd</sup> April 2024		
Time	Agenda	
7.30 a.m. – 8.00 a.m.	Arrivals, Registration, Tea & Coffee Service	
8.00 a.m. – 8.30 a.m.	Tour of exhibition booths	
8.30 a.m. – 9.00 a.m.	<b>Opening Session (Tsavo Ballroom)</b>  <b>MC–</b> Eric Latif	<b>SPEAKERS</b> <ul style="list-style-type: none"> <li>• Dr. (Eng.) Joseph Siror, Managing Director and CEO, Kenya Power</li> <li>• Joy Brenda Masinde, Chairman, Board of Directors, Kenya Power</li> <li>• H.E Sebastian Groth, Ambassador, Federal Republic of Germany</li> <li>• H.E. Henriette Geiger, European Union Ambassador to Kenya</li> <li>• Alex Wachira, Principal Secretary, Ministry of Energy &amp; Petroleum, State Department of Energy</li> </ul>

<b>PANEL 1</b> <b>MODERATOR: Erick Latif, Journalist</b>		
<b>9.30 a.m. – 9.45 a.m.</b>	<b>Presentation: Gains, hits and misses in the e-mobility sector in Kenya: Hezbon Mose - President, Electric Mobility Association of Kenya (EMAK)</b>	
<b>Time</b>	<b>Topic</b>	<b>Panelists</b>
<b>9.45 a.m. - 11.00 a.m.</b>	<b>Policy and Regulatory environment powering the growth of e-mobility</b> <ul style="list-style-type: none"> <li>Regulatory and operating environment in Kenya, gains made so far, lessons learnt</li> <li>E-Mobility taskforce progress, where are we?</li> <li>International benchmarking: Experience from Germany</li> <li>Investor experience: Basigo</li> <li>Trends and outlook</li> <li>What is Kenya doing to accelerate uptake of EVs?</li> <li>Impediments in EV uptake locally</li> <li>Second-hand EVs - Are they blessings or a challenge?</li> </ul>	<ul style="list-style-type: none"> <li><b>Alex Wachira, Principal Secretary</b>, Ministry of Energy &amp; Petroleum, State Department of Energy</li> <li><b>Michael Schuster</b>, Team Lead Sustainable Transport Kenya, GIZ</li> <li><b>Rajal Upadhyaya, Chief Finance Officer</b>, Roam</li> <li><b>Jit Bhattacharya, Co-Founder and CEO</b>, BasiGo</li> </ul>

11.00 a.m. – 11.30 a.m.	<b>Tea Break and tour of exhibitions (VIP):</b> <b>Co-ordinator: Kevin Sang</b> - Ag. Manager, Corporate Communications, Kenya Power	
	<b>Panel kickoff remarks, introducing moderator:</b> <b>Eng. Rosemary Oduor</b> - General Manager, Commercial Services and Sales - Kenya Power	
<b>10 mins Presentation - E-Mobility Landscape in Africa- Warren Ondanje, Managing Director, Africa E-Mobility Alliance (AFEMA)</b> <b>PANEL 2</b> <b>MODERATOR:</b> George Aluru - CEO, Electricity Sector Association of Kenya (ESAK) and Chairperson - KEPSA Energy Sector Board		
11.30 a.m. - 12.30 p.m.	<b>Grid capacity, reliability, and readiness</b> <ul style="list-style-type: none"><li>• Infrastructure development and grid stability to enable uptake of e-mobility</li><li>• Special e-mobility uptake, benefits and existing gaps</li><li>• Sector experience with e-mobility, challenges, and opportunities</li><li>• Implications on the grid, demand projections, etc.</li><li>• Generation- Long, short and medium plans</li><li>• Transmission capability</li></ul>	<ul style="list-style-type: none"><li>• <b>Dr. (Eng.) Joseph Siror, FIEK, Managing Director &amp;CEO,</b> Kenya Power</li><li>• <b>Mr. David Muthike, General Manager, Commercial Services,</b> Kenya Electricity Generating Company (KENGEN)</li></ul>
12.30 p.m. - 2.00 p.m.	<b>LUNCH BREAK</b> <b>Co-ordinator: Kevin Sang</b> - Ag. Manager, Corporate Communications, Kenya Power	
<b>Panel kickoff remarks, introducing moderator - Eng. Kennedy Owino,</b> Ag. General Manager, Infrastructure Development, Kenya Power		

**PANEL 3:**

**10 Minutes Presentation by the Kenya Bureau of Standards (KEBS) on safety standards for EVs and chargers**

**MODERATOR: David Mugambi** - Manager, Transport Services, Kenya Power

2.00 p.m. - 3.00 p.m.	<p><b>Safety and quality assurance (products, batteries, charging infrastructure)</b></p> <ul style="list-style-type: none"> <li>• Regulatory framework and standards for the EV space in the country</li> <li>• Second-hand EVs</li> <li>• EV waste disposal, secondary battery usage</li> <li>• Environmental impact</li> </ul>	<ul style="list-style-type: none"> <li>• <b>Eng. Robert Njoroge, Electrical Engineering, Standards Department,</b> Kenya Bureau of Standards (KEBS)</li> <li>• <b>Dr Ann Omambia,</b> National Environment Management Authority (NEMA)</li> <li>• <b>Dr. (Eng.) Fenwicks Musonye, Deputy Director, Energy Efficiency,</b> Energy and Petroleum Regulatory Authority (EPRA)</li> <li>• <b>Benedict Joseph Mutunga, Senior Principal Superintending Engineer,</b> Mechanical Transport Division, Min of Roads and Transport</li> </ul>
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#### PANEL 4: Breakout sessions

**Kickoff remarks, introduction of moderator - John Ihuthia** - General Manager, Power Purchase and Planning, Kenya Power

**3.30 p.m. - 5.00 p.m.**

#### **Break out Session 1: Skills, Knowledge Transfer, and Certification (Venue - Tsavo Ballroom)**

**Moderator: Eng. Erick Ohaga** - Immediate Former President, Institution of Engineers of Kenya (IEK)

- Knowledge and skills available locally in EV space
- Existing gaps in skills and how to upscale/mitigation measures
- International benchmarking on skills and knowledge transfer:
- Short, medium and long plans on training and certification

- **John Msingo, Trainer and Director for East Africa,** AfricaNEV
- **Alex Munene, Consultant and trainer,** Founder, Advanced Mobility Centre
- **Wathome Pius, Technical Advisor,** TVET and Electric Mobility, GIZ
- **Dr. Paul Wanyeki, Deputy Director,** Technical and Vocational Education and Training Authority (TVETA).

**Kickoff remarks, introduction of moderator:**

**Eng. Geoffrey Muli** - General Manager, Regional Co-ordination, Kenya Power

	<p><b>Breakout Session 2: Research and Development (technological innovation in e-mobility): (Venue - Lenana)</b></p> <p><b>Moderator: Kathryn Mumbua, Project Manager Social Enterprise &amp; E-Mobility Siemens Stiftung (Foundation)</b></p> <ul style="list-style-type: none"> <li>• Available tech in the E-mobility space</li> <li>• Ongoing research and development in the E-mobility ecosystem</li> <li>• Research financing and collaborations between global North and South</li> </ul>	<ul style="list-style-type: none"> <li>• <b>Dr. Jeremiah Kiplagat, Director</b>, Institute of Energy Studies and Research (IESR)</li> <li>• <b>Dr. Winston Ojenge, Lecturer</b>, Technical University of Kenya (TUK)</li> <li>• <b>Eng. Ignatius Maranga, Quality Engineer</b>, Strathmore University</li> <li>• <b>June Nyandwaki</b>, Chief Operations Officer and Health and Safety Manager, Knights and Apps Ltd</li> </ul>
5.00 p.m. - 7.00 p.m.	<p><b>Cocktail, Entertainment, and Networking session</b></p> <p><b>Co-ordinator; Gregory Ngahu</b> - Corporate Communications Officer, Kenya Power</p>	

**DAY 2 – Wednesday, 24<sup>th</sup> April 2024:**

Time	Agenda	
	Moderator	Kevin Sang - Ag. Manager, Corporate Communications, Kenya Power
8.00 a.m. - 8.30 a.m.	Opening Ceremony (Tsavo Ballroom)	<p><b>SPEAKERS</b></p> <ul style="list-style-type: none"> <li>• Dr. (Eng.) Joseph Siror, Managing Director and CEO, Kenya Power</li> <li>• Joy Brenda Masinde, Chairman of the Board of Directors, Kenya Power</li> <li>• Davis Chirchir, Cabinet Secretary, Ministry of Energy &amp; Petroleum</li> <li>• Rebecca Miano, Cabinet Secretary, Ministry of Trade and Industry</li> <li>• Hon. Kipchumba Murkomen, Cabinet Secretary, Ministry of Roads &amp; Transport</li> </ul>
<p><b>Kickoff remarks and introduction of moderator:</b> Eng. Aggrey Machasio - General Manager, Business Strategy, Kenya Power</p>		
<p><b>PANEL 5</b> Moderator: Oscar Masheti - 3<sup>RD</sup> Assistant Engineer, Research, Institute of Energy Studies and Research (IESR)</p>		



Time	Topic	Panelists
8.30 a.m. – 10.30 a.m.	<b>Local Assembly and Manufacturing:</b> <ul style="list-style-type: none"> <li>• Opportunities and challenges in the local assembly of EVs, including quality control</li> <li>• The future/sustainability of local assembly and manufacturing</li> <li>• Skills availability and gaps</li> </ul>	<ul style="list-style-type: none"> <li>• <b>Racheal Tiribi Wahinya, Head, Quality</b> Department, Kenya Vehicle Manufacturers</li> <li>• <b>Gideon Oele, Deputy Director of Industries,</b> State Department for Industry; Ministry of Investments, Trade and Industry</li> <li>• <b>Ashit Shah, Board Director and Automotive Sector Chair,</b> Kenya Association of Manufacturers (KAM)</li> <li>• <b>Moses Nderitu, Managing Director,</b> BasiGo</li> </ul>

		<ul style="list-style-type: none"> <li>• <b>Monicah Thuku Muema, CEO, Power Governors Limited (PGL)</b></li> </ul>
<b>Closing Remarks: Cecilia Kalungu</b> - General Manager, HR and Administration, Kenya Power		
<b>10.30 a.m. – 11.00 a.m.: TEA BREAK:</b>		
<b>Kickoff remarks and introduction of moderator: Dr. John N'geno</b> - General Manager, Supply Chain and Logistics, Kenya Power		
<b>PANEL 6</b> <b>Moderator: Herman Kwoba</b> - Advisor, Transport and Climate Change, GIZ		
<b>11:00 a.m. – 11. 20 a.m.: Presentation on BRT by the Nairobi Metropolitan Area Transport Authority (NaMATA)</b>		
<b>11.20 a.m. – 1.00 p.m.</b>	<b>Public transport and electric vehicles</b> <ul style="list-style-type: none"> <li>• Are EVs the panacea for public transport challenges in Nairobi and other local cities?</li> <li>• EV Bus Rapid Transport (BRT) implementation, where are we?</li> <li>• Commercial operations: EV investor experience</li> <li>• Special EV parking/depot spaces in Nairobi</li> <li>• The EV bodaboda experience</li> </ul>	<ul style="list-style-type: none"> <li>• <b>Eng. Francis Gitau, Director General, Nairobi Metropolitan Area Transport Authority (NaMATA)</b></li> <li>• <b>Dennis Wakaba, Head of Public Affairs and Product Support, ROAM</b></li> </ul>

	<ul style="list-style-type: none"><li>Electrifying Boda Boda Transportation In Kenya: How is the uptake of e-bodabodas? Challenges? Have we addressed range anxiety? How is the battery-swapping model coming along?</li></ul>	<ul style="list-style-type: none"><li><b>Patricia Mutheu, CEO</b>, Matatu Owners Association (MoA)</li><li><b>Edwin Mukabannah, Chairman</b>, Federation of Public Transport Sector</li></ul>
1.00 p.m. - 2.00 p.m.	<b>LUNCH BREAK</b> <b>Co-ordinator: Gregory Ngahu</b> - Corporate Communications Officer, Kenya Power	
Kickoff remarks and introduction of moderator: <b>Eng. Charles Mwaura - General Manager</b> , Network Management, Kenya Power		
<b>PANEL 7</b> 10 Minutes Presentation on Charging Infrastructure in Kenya by <b>Iyadi Iyadi, CEO</b> , EV Chaja		

<p><b>2.00 p.m. - 3.00 p.m.</b></p>	<p><b>Charging infrastructure- Technology and management platforms</b> Available Internet of Things (IoT)</p> <p><b>Moderator: Tom Courtright, Research Director, Africa E-Mobility Alliance (AFEMA)</b></p>	<p><b>Iyadi Iyadi, CEO, EV Chaja</b></p> <p><b>Francis Romano, CEO, Drive Electric/Knights Energy</b></p> <p><b>Vivian Oyugi, Operations Manager, Ampersand E-Mobility Ltd</b></p> <p><b>Ruwan Fernando, CEO, Mayleen Group</b></p>
<p><b>PANEL 8: Breakout sessions</b> 10 mins Presentation on alternative financing model for two and three-wheelers: Steve Onyango, Chief Financial Officer, Watu Credit</p> <p>Kickoff remarks and introduction of the moderator: Eng David Syengo, Technical Advisor to the MD &amp;CEO, Kenya Power</p>		

<p><b>3.00 p.m. – 4.00 p.m.</b></p>	<p><b>Business and financing models</b></p> <p><b>Moderator: Aaliya Iqbal, Project Lead, Africa E-Mobility Alliance (AFEMA)</b></p> <ul style="list-style-type: none"> <li>• Available financing models for investors in the e-mobility space</li> <li>• Lessons learned so far in financing the e-mobility space</li> <li>• The dynamic future of financing E-mobility</li> <li>• Accessing green financing</li> </ul> <p><b>(Venue- Tsavo Ballroom)</b></p>	<p><b>James Karinga, Head of Asset Finance and Business Solutions, NCBA Bank</b></p> <p><b>David Damberger- Managing Director, Mkopa</b></p> <p><b>Samuel Kamunya, Head of Business Development, BasiGo</b></p> <p><b>Linda Ndungu, Country Manager, Bolt</b></p> <p><b>Mark Hankins, Advisor GET.invest Finance Catalyst</b></p>
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	<p><b>Just Energy and Mobility Transition</b></p> <p><b>Kick-off remarks and introduction of moderator: Kevin Sang, Ag, Manager, Corporate Communications, Kenya Power</b></p> <p><b>Moderator: Gladys Njoroge, Communications Officer, EPRA (Venue- Lenana)</b></p>	<p><b>Amos Mwangi, Senior Associate, Electric Mobility, World Resources Institute (WRI)</b></p> <p><b>David Angeniyi, Nahshon, Consultant - KPMG</b></p> <p><b>Wangari Muchiri, Director, Global Wind Energy Council</b></p> <p><b>Vivienne Kigundu, Program Coordinator, Climate Justice and Urban Mobility - Friedrich Ebert Stiftung (FES Kenya).</b></p> <p><b>Dr Derow Adan- Branch Secretary, Nairobi, Kenya Electrical Traders &amp; Allied Workers Union (KETAWU)</b></p>
4.00 p.m. - 4.30 p.m.	<p><b>ASSEMBLY IN MAIN HALL AND VOTE OF THANKS / CLOSING COMMENTS</b></p> <p><b>ROBERT MUGO - GENERAL MANAGER, ICT, KENYA POWER</b></p>	