

Nairobi flow batteries

Electric vehicles (EVs) are steadily gaining traction in Kenya, driven by environmental awareness, supportive government policies, and advances in technology. As the EV market grows, so does the need to...

ABM is the manufacturer of Chloride Exide batteries, which are made at an ISO 9001 certified production plant in Nairobi. The firm has a countrywide dealer network with branches in Kenya, Tanzania and Uganda.

Guy Jack, managing director of ABM, explained the decision to establish what he claimed to be the first maintenance free (MF) VRLA battery factory in East Africa. He said: "Our sister company Chloride Exide Kenya Limited has been importing MF batteries for several years to meet the growing preference for them. Users are happy with MF batteries because they eliminate the need for adding up with distilled water.

"As the popularity of MF batteries has shown a steep rise, we have invested heavily in the machinery needed to make them at our Kampala Road factory. After comprehensive field and laboratory tests which proved that our MF batteries exceed all the international parameters they are now available for all motor vehicles and generators."

Battery software firm Electra has introduced a new battery passport solution called EVE-Ai - EAGLE Battery Pass (European Advance Governance and Lifecycle Evaluation), which it said is designed to...

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Mogo, a leading asset financing company in Kenya, is making progress in promoting electric mobility by committing over Ksh 192 million (approximately \$1.3 million) to finance electric vehicles, primarily focusing...

Fluctuating wind speeds and sunlight variations make these energy sources inconsistent, creating a pressing need for efficient energy storage systems. Enter the race for advanced batteries that can reliably store intermittent energy over the long term.

"Bromide-based aqueous flow batteries are a promising solution, but there are many messy electrochemical problems with them. That's why there's no real successful bromide-based products today," said Patrick Sullivan, one of the study authors.

Aqueous flow batteries use liquid electrolytes that circulate between electrodes separated by a membrane. This design uses water-based ion solutions and offers advantages in scalability, sustainability, and safety.

However, bromide-based flow batteries have faced challenges due to the behavior of bromide ions. These ions can leak, precipitate, or form toxic byproducts, thereby impacting the battery's performance and reliability.

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