

## Ghana battery performance

Bosch in Ghana becomes a key player in the lead-acid Battery recycling project, established by a reverse logistic in partnership in collaboration with Ghanaian professional market players, City Waste Management Ghana, battery distributors, used battery collectors and end consumers. Automotive lead acid car batteries contain various heavy metals and toxic chemicals which is harmful to the environment and the health of individuals.

Currently, the management of used batteries in the field does not focus on socially responsible actions of key role players with no application of the recommended standards that ultimately posing health risks, soil contamination and water pollution. According to the United Nation statistics, the estimated market volume is around 800,000 units of batteries traded every year in Ghana.

"The long-term sustainability of Ghana environmental landscape requires legal compliance in the handling of used automotive Batteries, Bosch in Ghana full supports the recycling project that focuses on collection and recycling of used automotive lead batteries," stated Julien Lacoste, West Africa Regional Director at Bosch Ghana

Kingsley Out-Koram, Country Sales Manager at Bosch Ghana, added, "The program targets batteries sellers, batteries collectors and end-users with an incentive program to bolster change in behaviours on handling of automotive batteries. In addition, the program aims also to support creation of formal jobs primarily in the logistic and training fields. As of November 2020, 14 collections points have already been deployed with an objective to double the collection points by 2021."

Yves Nono, Africa Regional President confirmed the need for such initiatives and confirmed that, "After a successful pilot project in Ghana, we intend to expand such project across other African countries."

As the world's largest independent supplier to the automotive industry, Bosch significantly contributes toward making driving ever safer, cleaner, and more economical. Bosch develops innovative solutions that facilitate new mobility offerings for private or commercial vehicles, multimodal transportation services, fleet management, or smart transport infrastructure.

Kofa Technologies Ltd, a Ghanaian company providing clean and portable battery solutions, and PASH Global, a leading impact investor, have announced the expansion of Kofa's battery swapping network in Ghana

This Special Purpose Vehicle (SPV) expansion is backed by a ?2.35mn (US\$3.04mn) commitment from Shell Foundation, co-funded with the UK Government through its Transforming Energy Access (TEA) platform. Shell Foundation and TEA are committing an additional ?1.4mn (US\$1.86mn) to support Kofa's e-bike asset



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financing, research on the impact of Kofa's multi-use battery technology, and operating expenses.

The network is targeting a deployment of 6,000 batteries and up to 100 swap stations across Ghana, ensuring that energy is accessible anytime, anywhere, and promoting the transition to clean energy and the large-scale adoption of EVs in Africa. PASH also intends, in due course, to transform these swap stations to be fully powered by solar power, further increasing the impact of the station.

The project aims to deliver reliable, affordable, and clean energy for electric two-wheelers while also supplying power to small businesses and homes that currently depend on small petrol generators--helping to displace these generators and significantly reduce reliance on fossil fuels. Preliminary analysis indicates that electric motorcycles in Ghana are already up to 20% cheaper to operate compared to internal combustion engine (ICE) vehicles. As battery prices continue to decline, these savings are expected to increase, further incentivising the shift to electric vehicles.

Speaking at the launch event, Lord Collins of Highbury, Parliamentary Under-Secretary of State (Africa) said, "Today's announcement demonstrates the UK's continued commitment to supporting clean energy initiatives across the world. This project not only fosters economic growth, it also strengthens the UK's partnership with Ghana, contributing to a greener, more resilient future for Ghana."

"The partnership between Kofa and PASH represents a powerful step forward in delivering sustainable energy solutions across Africa," said Kofi Owusu Bempah, founder and CEO of PASH Global. "With the strong backing of Shell Foundation and the UK Government, we are well-positioned to lead the charge in the e-mobility revolution, beginning with this transformative project in Ghana."

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