

Staggering amount of e-waste illegally reaches Nigeria inside used cars

A two-year study focused on used electrical and electronic equipment (UEEE) sent to Nigeria, mostly from European ports, has revealed a continuing "severe problem" of international and national laws governing such shipments being flouted.



Image credit: UNU & BCCC-Africa

Limited functionality testing revealed that, of the UEEE sent to Nigeria from other countries in 2015 and 2016 - assessed at around 60,000 metric tonnes in both years - at least 15,400 tonnes didn't work.

This annual volume of imported e-waste, prohibited under both the Basel Convention and the EU's Waste Shipment Directive, is enough to fill a 10km line of full-loaded 36-tonne 18-wheel trucks.

The study also revealed that almost 70% - 41,500 tonnes - of the UEEE reaching Lagos each year arrived inside vehicles destined for Nigeria's secondhand auto market, an import route never before thoroughly assessed. Another 18,300 tonnes arrived in shipping containers.

Mixed with other goods

Co-authored by the Basel Convention Coordinating Centre for Africa (BCCC Africa) and the Sustainable Cycles (SCYCLE) Programme of United Nations University Vice-Rectorate in Europe, the study report says UEEE imported into Nigeria often arrives mixed with other goods such as bicycles, kitchenware, sports equipment, furniture.



Image credit: UNU & BCCC-Africa

More than 60% of the UEEE imported in containers was declared in official paperwork to be household goods or personal effects. UEEE imported in used vehicles was mostly undeclared.

By weight, LCD-TVs and flat panel monitors made up the largest category (18%) of imported UEEE. Over half (55%) of these were found to be non-functioning e-waste. The second largest category - CRT-TVs and CRT-monitors (14%) - are formally banned from importation. Photocopying machines made up 13%, refrigerators 12%, desktop CPUs 7%, air conditioners, speakers and washing machines, each 6%, printers 5%, and DVDs 4%.

Of the UEEE imported inside "roll-on / roll-off" (Ro-Ro) used vehicles (so called because they are driven onto and off the ships rather than being transported in containers), the vast majority (98%) came from EU member states. The rest came from the USA.

Another 18,300 tonnes were imported in containers, originating predominantly from ports in the EU (29%), China (24%) and the USA (20%).



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77% of imports originated from EU

Overall, around 77% of the assessed UEEE imports originated from ports in the EU, mainly from Germany and the United Kingdom (around 20% each), followed by Belgium, The Netherlands, Spain and Ireland (between 9% and 6%). China and the USA each accounted for around 7% of the total imports.

The report also notes that some of the devices can and will be repaired in Nigeria. Nevertheless, exporting to and importing non-functional UEEE into Nigeria are illegal under the Basel Convention. Under the convention, only UEEE that is functional and for reuse may be shipped.

The study also found that none of the illegal shipments resulted in consequences for the exporters or importers.

Due to the conditions in the ports, only basic functionality testing was possible, the report says. Actual volumes of nonfunctional UEEE imports are probably higher than estimated.



Image credit: UNU & BCCC-Africa

Solving the E-waste Problem Initiative

The report concludes the first ever, long-term (16-month) study of containers and vehicles in a known destination country for UEEE and WEEE (Waste Electrical and Electronic Equipment), including a review of import documents. It was conducted in two ports in Lagos under the Person in the Port (PiP) project implemented by the Basel Convention Coordination Centre for the Africa Region (BCCC-Africa) and the United Nations University (UNU), as part of the Solving the E-waste Problem (Step) Initiative.

The project was co-funded in part by the US Environment Protection Agency (US EPA) and by the German Ministry of Economic Cooperation and Development (BMZ), via the Deutsche Gesellschaft für Internationale Zusammenarbeit = German International Cooperation (GIZ).

"The importation of UEEE in vehicles is economical for the shippers because it fills valuable space during shipments," says Professor Percy Onianwa, director of BCCC-Africa. "However, because in particular the contents in RoRo-vehicles are not yet on the radar for such tests, this practice serves to avoid inspections and functionality tests on UEEE by the regulatory agency, resulting in many tonnes of e-waste arriving illegally into Nigeria."



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UEEE containing hazardous substances among products with highest import volumes

"In the best case scenario, our study shows at least 15,600 metric tonnes of non-functional UEEE is imported into Nigeria each year. UEEE containing hazardous substances - e.g. mercury and (H)CFCs - are among the products with the highest non-functionality rates and the highest import volumes."

"Almost all of the importers or their agents are Nigerians, of which 80% are located within the Lagos metropolis," adds co-author Olusegun Odeyingbo of UNU. "The imports of UEEE can generate considerable profits, especially if they can be sold primarily for re-use."

"The overall profits depend on the quality and the brand of the UEEE, and on the exchange rate of the Nigerian currency, the naira, in particular with the US dollar and the euro."



Image credit: UNU & BCCC-Africa

E-waste return only marginal profits

"The main business potential of UEEE is re-use, as this enables highest sales value," he notes. "Imports of e-waste return only marginal profits based on material value alone, making it more attractive to import functional or repairable UEEE. Where UEEE is broken, repair and spare parts harvesting offer higher value returns before recycling for material value."

According to the report: "The enforcement of regulations in the countries of export, mainly in the EU and in Nigeria, need to be strengthened, and closer cooperation amongst local regulatory and enforcement agencies is highly advisable."

Says Ruediger Kuehr, director of UNU's SCYCLE Programme in charge of e-waste: "Next steps should involve making certificates of functionality testing an obligatory part of the requirements for transporting used electronic and electrical equipment, along with standard functionality tests, accepted by both exporting and importing countries, for each type of UEEE. Furthermore, projects of this type are needed in other parts of the world to better understand the magnitude and dynamics of these imports and exports."

Read the full report [here](#).

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