



The Letter of Green Industrialization in Africa

Observatoire Europe-Afrique 2030

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The “Observatoire Europe-Afrique 2030” is a space open to all people interested in two issues:

- Promote the development of green equipment manufacturing industries in Africa (solar mini-grids, wind farms, heat pumps, 2-wheelers, electric cars and buses, tramways, waste sorting and recycling units.....).
- Participate to the development of the « Directory of Green Industrialization Leaders in Africa”.



Highlight on the enterprise “African Clean Energy”

African Clean Energy is the 43rd company identified by the Observatory as one of the Leaders of Green Industrialization in Africa.

This 200 employees company produces and distributes hybrid solar-biomass stoves in developing countries. It was founded in Lesotho, where it manufactures the ACE One system. The company's head office is in Amsterdam.

The ACE One was developed in 2014 with the support of crowdfunding and the Global Alliance for Clean Cookstoves. Since 2017, the company has operated factories in Lesotho and Cambodia.

The ACE One is sold directly to consumers via a pay-as-you-go model, costing around US\$100 per unit. To date, the company has sold around 60,000 units.

The ACE One can burn any type of solid biomass fuel (crop residues, animal waste or sticks). It burns fuel more efficiently than traditional open-fire stoves, and consumes 50 to 85% less fuel.

The ACE One combustion chamber is designed to reduce smoke emissions to a negligible level by creating a clean combustion of biomass:

- A fan blows oxygen into the top and bottom of the combustion chamber.
- The oxygen raises the temperature of the fire in the chamber to around 1000°C, causing the biomass to gasify.
- The hot gases rise to the top of the combustion chamber where they encounter more oxygen and burn completely.



Dimensions: 33 x 33 x 35 cm

Weight: 4.6 kg

Service life: 8-12 years

Fuel consumption: Full fan: 750 g (8 mm pellets)/50 minutes / Low fan: 750 g (8 mm pellets)/100 minutes.

The ACE One meets IWA-ISO Level 3 and 4 standards for emissions and efficiency. It reduces fuel consumption by up to 70% compared with an open fire.

The ACE One burns biomass without smoke, reducing CO and PM 2.5 emissions by 95% compared with an open fire.

Green manufacturing projects in Africa

Egypt

First Automobile Works (FAW - China) is to relocate production of its 'Bestune NAT' electric vehicle model to Egypt by 2025, under an agreement signed with the Egyptian company GV Auto, a subsidiary of the GV Investments group. 'Bestune NAT' is widely used in Asia and the West, particularly in the chauffeur-driven car (VTC) sector. The aim is to eventually produce cars in which 65% of the components are locally sourced. The group is expected to invest up to 20 M US\$ in this project (*Le Projet Afrique Chine*).

Egypt

An agreement has been signed between the Railway Authority and the Spanish company Talgo for the local production of wagons. The factory will be built next to the Kom Abou Rady railway workshops in the governorate of Beni Souef, covering an area of 4,500 square meters. The project involves the manufacture of 50 trains by Egyptian engineers and workers, with the assistance of Spanish experts. Under the terms of the agreement, 45% of the railway equipment will be manufactured using local components (*Agence Ecofin*).

Morocco

Alstom is to create a second plant at its Fez site, which should be fully operational by 2025. The new division will produce driver cabs for regional trains and metros. The site currently employs more than 850 people and produces Mitrac wiring and transformers. The new production line will employ 200 people by 2025 (*Railway Technology*).

Morocco

Chinese wind turbine blade manufacturer Aeolon has launched the construction of a blade factory in Morocco, with a total estimated investment of \$245 million. Location: Nador Industrial Acceleration Zone (north coast). Surface area: 50ha. Annual production capacity: 600 sets of blades. Employment forecast: 3,300 people. Expected turnover > \$682 million. The Nador plant will be Aeolon's first production site outside China. It should start operating by the end of 2024 (*ecom News Med*).

Morocco

BTR New Technology (China) is investing in a new battery factory for electric vehicles. It will manufacture anode materials for Li-Ion batteries. Planned capacity: 60,000 tonnes of anodes per year. Start-up expected within 2 years (*Le 360 - Morocco*).

Namibia

Start of work on Africa's first green steel plant - Laying of the foundation stone for the Hylron / Oshivela project, which is supported by the Federal Government (*Federal Ministry for Economic Affairs and Climate Action - Germany*).

<https://www.bmwk.de/Redaktion/EN/Pressemitteilungen/2023/11/20231106-commencement-of-construction-of-the-first-green-iron-plant-in-africa.html>

Uganda

Indian carmaker Mauto Electric Mobility (M Auto), now Spiro, has signed an investment contract with the Ugandan authorities for the construction of a new electric motorbike assembly plant, at a total cost of \$200m. The company plans to deploy 140,000 electric motorbikes, notably in Kampala. Spiro also plans to install a network of 3,000 battery exchange stations (*Afrik 21*).

To see, to read...

On 12 July 2024, the Observatoire Europe Afrique 2030 published the Case Study no. 20, entitled “**Degree of Local Integration of the Green Industrialization Leaders in Africa**” The fifty-two companies in the Directory of Leaders in Green Industrialisation in Africa are analyzed in the light of their degree of added value. There is a preponderance (in number) of companies with a ‘medium to high’ level of added value. This confirms that the industrial structure of green industries in Africa is not just a matter of screwdriver factories. The examples of several of the companies in the ranking, although very few in number given the continent's needs, demonstrate that it is possible to manufacture products with a relatively high technological content, such as bicycles, wind turbine masts, railway equipment and solar panels, on African soil and under apparently profitable conditions, with a significant degree of local added value?

<https://observatoire-europe-afrique-2030.org/wp-content/uploads/2024/07/20-Value-added-engl.pdf>

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<http://observatoire-europe-afrique-2030.org/fr/accueil/>

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