



The Letter of Green Industrialization in Africa

Observatoire Europe-Afrique 2030

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1- Spotlight on Kestrel Wind Turbines (South Africa)

Founded in 2006, Kestrel Wind Turbines is a South African company subsidiary of the American Eveready Group. The company specializes in the manufacture of small wind turbines with power ratings of 600W, 800W, 1kW and 3.5kW. It offers complete solutions for domestic, agricultural, telecommunications, education, rural and corporate applications. Kestrel designs, manufactures, installs and maintains micro-wind turbines. The company draws on Eveready's engineering, R&D and testing capabilities.

Specifications for the various wind turbine models can be consulted at :

<https://www.kestrelwind.co.za/wind-turbines>

For example, the Kestrel e300i is a new-generation small wind turbine that generates electricity even at relatively low wind speeds. The high-performance three-blade rotor with pitch control powers an axial-flow permanent-magnet brushless alternator, combined with heat management. The e300i maintains its rated power even at excessive wind speeds, optimizing power output and potential energy yield. E300i powers many telecoms sites.



Specification of the e300ⁱ Wind Turbine

SMALL WIND TURBINE CLASS	11
MAXIMUM POWER ^A	1000W
RATED OUTPUT ^B	1000W
RATED WIND SPEED ^B	10.5ms ⁻¹
CUT-IN WIND SPEED	2.5ms ⁻¹
GENERATOR TYPE	Permanent-magnet Axial flux brushless
ROTOR DIAMETER	3m (9.84ft)
NUMBER OF BLADES	3
BLADE MATERIAL	Fibreglass
TOWER TOP MASS	75kg (165lb)
TOWER HEIGHT	12-18m (39-59ft)
TOWER TYPE	Monopole
OVERSPEED PROTECTION	Pitch Control
CONTROLLER TYPE	PWM diversion control & MPPT
OUTPUT VOLTAGE	12, 24, 36, 48, 80, 110, 200Vdc
APPLICATION	Battery charging Hybrid Water Pumping

Since 2006, the Kestrel range of micro-wind turbines has been designed and manufactured at the ISO-certified plant in Port Elizabeth, South Africa, to internationally recognized quality standards.

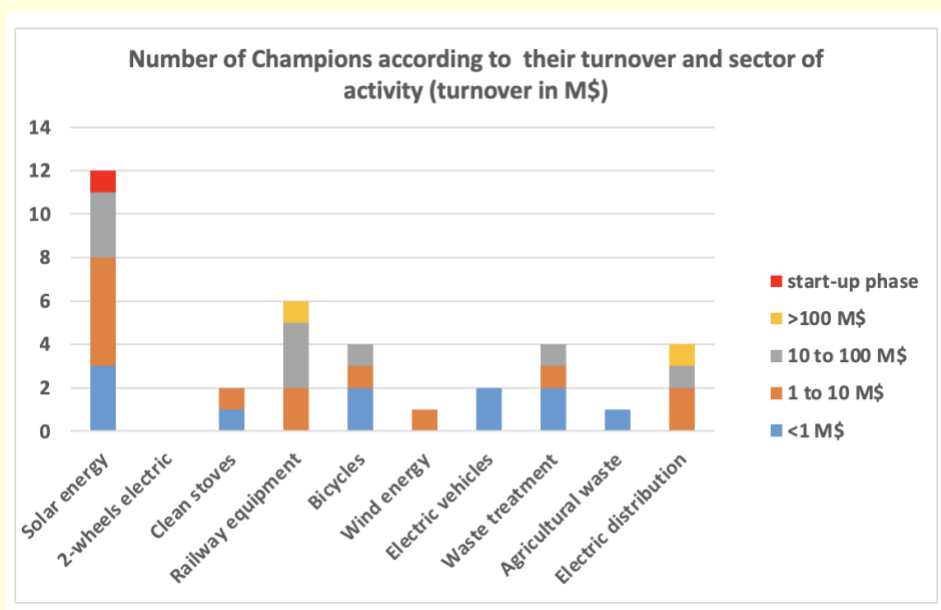
2- Newcomers

In the last three months, five companies have been added to « Champions of Green Industrialization in Africa »:

- **Almaden Maroc**, a subsidiary of the Chinese Almaden Group, specializes in the production of solar panel glass and solar panels. Based in Al Hoceima, the production line has a capacity of 250 MW.
- **Chaudronnerie du Gabon** recycles scrap metal. It has a monthly production capacity of 5,000 tonnes of reinforcing steel. The plant also processes manganese alloy scrap.
- **Aeolon Maroc**, a subsidiary of Chinese manufacturer Aeolon, started up a wind turbine blade factory in Nador in January 2025.
- **SCIF**, a subsidiary of the Moroccan group Ynna, specializes in metal construction, heavy boiler making and the manufacture of railway equipment.
- **Hylron** (pronounced "High Iron") has started up an iron ore reduction plant in Namibia using green hydrogen.

3- Outlook of Champions turnover

Only two companies have sales in excess of \$100 million. 2/3 of the companies listed have sales of less than \$10 million.

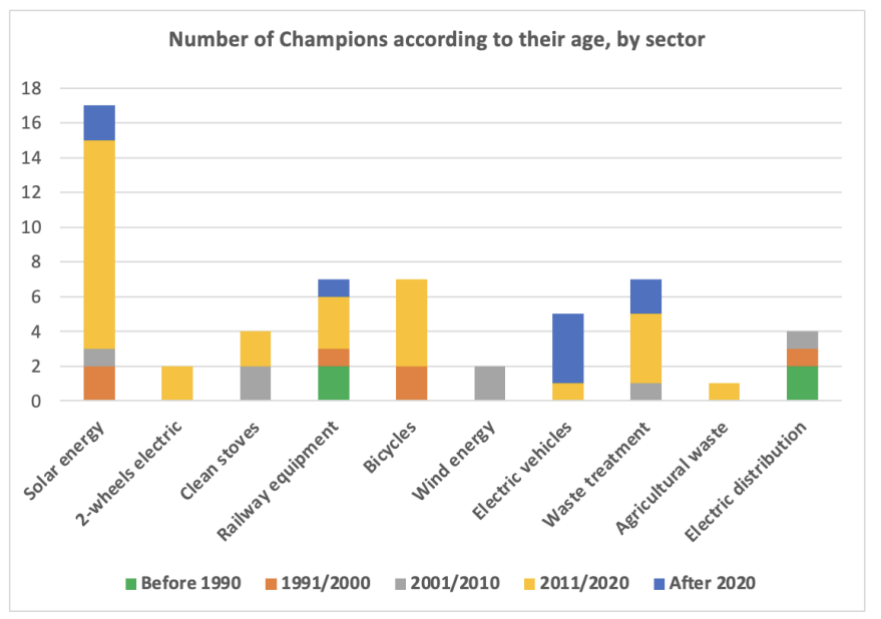


Note: The graph above covers a total of 36 companies. The 37 other companies in the ranking are not included, as their published sales cover a broader range of activities than those relating to green industries.

4- Outlook of Champions age

The 2011/2020 period was particularly rich in the creation of “green” manufacturing companies, especially in the fields of solar panels, bicycles and waste treatment equipment.

Since 2020, the pace of start-ups has slowed, with the exception of the electric vehicle sector.



5- How to participate ?

“Champions of Green Industrialization in Africa” is produced by the Observatoire Europe-Afrique 2030. It recognizes companies that have made “green” manufacturing investments on African soil.

To date, the Observatory has identified 72 “champion” companies in a wide range of sectors, including the manufacture of photovoltaic panels, solar kits, wind turbines, railway equipment, electric two-wheelers, waste sorting plants and low-emission domestic stoves.

If you know any companies with a “Champion” profile, please send your suggestions to :

contact@observatoire-europe-afrique-2030.org

.... or use the “[Contact us](#)” page on the Observatory website.

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