



GREEN DEAL PROJECTS SUCCESS STORIES



CLEAN ENERGY WORKING GROUP

DEMONSTRATING SOLAR POWERED ELECTRIC MOBILITY FOR MOTOTAXIS

October 2023



ENERGICA project

ENERGICA aims to demonstrate the efficient implementation of renewable energy technologies to match local contexts' needs.

In this success story the project demonstrates the implementation of Africa's first electric service station, offering a holistic and hassle-free riding experience to electric motorcycle users.

#EUGreenDeal



ABOUT THE ENERGICA PROJECT

With its 11 European and 17 African partners, ENERGICA focuses on improving energy access and sustainable energy development on both continents.

The project focuses on three demonstration sites, developing:

- Nano-grids for access to renewable energy in rural Madagascar addressing both infrastructure cost and energy access rate through tailored Water-Energy-Food nexus systems.
- A new biogas and water purification system for energy, water and food fertiliser production in Sierra Leone.
- Solar powered electric mobility for mototaxis in urban Kenya.



DESCRIPTION OF SUCCESS

The Roam Hub in the Kenyan demonstration site is Africa's first electric service station.

Currently, the project has three key sites all over Nairobi county, with plans to add more locations to the network over the coming months.

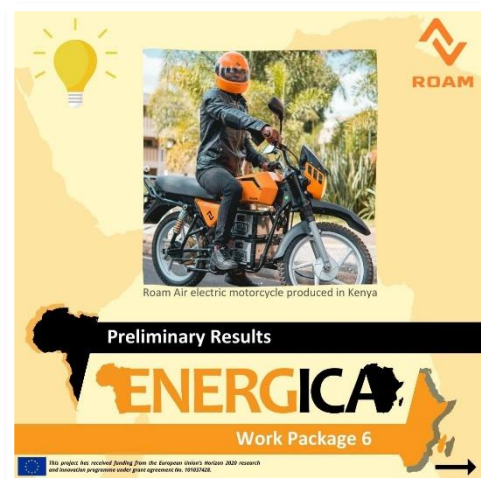
The service stations are equipped with fast chargers capable of charging the Roam Air (electric motorcycle) in less than an hour. The stations are also powered partly by solar energy and are designed with an interoperability function that allows other electric vehicles from Roam's partners to be serviced at these locations.

Research and
Innovation



HIGHLIGHTS

- **Multipurpose service stations** offering battery rental services, battery charging and after-sales services.
- **Tackling 'range anxiety' within Kenya** as stations are equipped with spare parts and staffed with trained technicians who can provide maintenance and repair services as needed.
- **The Roam Hub sites also serve as public access points** for technology and software updates on the Roam Air making them one-stop-shops for the different needs riders may have.



IMPACT

This project offers a holistic and hassle-free riding experience to Roam's electric motorcycle customers. The Roam Hub charging stations are strategically located at the heart of busy urban areas.

The roll-out of this dedicated charging network for electric motorcycle riders is an important step towards decarbonising Kenya's transport sector. As it is a container solution it can be used almost everywhere.

Read more about this success story online

[Demonstrating solar powered electric mobility for mototaxis](#)

Visit the project website

[ENERGICA](#)



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