



Electric motorcycles for urban transport

Climate cooperation between Sweden and Ghana

Country: Ghana

Project owner: SolarTaxi

Crediting period: 2025-2030

Technology: E-mobility

Mitigation outcomes: 250,000 CO₂e

Sustainable development goals:



Activity description

The mitigation activity will include the construction, sale, and rental of approximately 48,000 electric motorcycles along with the necessary charging infrastructure to reduce the use of fossil fuels in the transport sector. The activity is expected to reduce greenhouse gas emissions in Ghana by approximately 250,000 tonnes by 2030.

Environmental integrity

The market for e-mobility in Ghana is limited due to high upfront costs and a lack of infrastructure. As a result, electrical vehicles represent less than one percent of the transport sector. Currently, there are only six public charging stations in Ghana, and in 2023, there were fewer than 20,000 plug-in electric vehicles, of which fewer than 10,000 were battery-powered electric three- or two-wheelers (motorcycles or scooters). The baseline assumes the continued use and acquisition of new combustion engine vehicles of equivalent volume, size and type.

Sweden will purchase internationally transferred mitigation outcomes (ITMOs) until 2030 with the possibility to extend until 2036, after which all mitigation outcomes will belong to Ghana. This will allow the country to increase its greenhouse gas mitigation ambition in future nationally determined contribution (NDC) periods.

Expected contributions to sustainable development goals

In addition to reduced greenhouse gas emissions, the distribution of electric motorcycles leads to sustainable development co-benefits, such as reduced noise and air pollution. The activity is expected to contribute to economic growth, incomes and private sector development. Furthermore, it will provide tailored education to women and youths, benefiting education, training, gender equality, and empowerment of women and girls.

