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E-mobility
Project in
ivory coast

A. THE SUBJECT

To limit greenhouse gas (GHG) emissions, developed countries have committed, under the Paris Agreement and other international commitments, to producing and using electric vehicles from 2030 or 2035.

Côte d'Ivoire has received funding from the Global Environment Facility (GEF) to implement a project on the promotion of electric mobility. The Ministry of Environment and Sustainable Development has been chosen to implement the electric mobility project:

« **Integrated, Sustainable and Low Emissions Transport in Côte d'Ivoire** »

It is about the introduction of electric vehicles in Côte d'Ivoire.

The objective displayed through this project in Côte d'Ivoire, is to "promote innovation and technology transfer for electric mobility in order to reduce the consumption of fossil fuels, greenhouse gas (GHG) emissions and air pollution from the transport sector".

Our country is one of three countries in the ECOWAS region, along with Togo and Sierra Leone, which are among the countries identified by THE global program.

B. THE PROBLEM

In previous years, car pollution assessments showed that the Ivorian car fleet emitted up to 200 g of CO₂ per km, while the countries from which these vehicles are imported emit 90 to 95 g of CO₂ per km.

This motivated the country to make an effort by moving towards a new form of mobility through this project which ends in 2025 and whose sustainability will be ensured by the Mobility Coordination Unit in Côte d'Ivoire

Globally, 23% of greenhouse gas (GHG) emissions are responsible for nearly 1.6 million deaths each year due to air pollution.

The transport sector is currently responsible for around 1/4 of energy-related carbon dioxide emissions. This figure should reach 1/3 by 2050 according to studies by UN experts.

Côte d'Ivoire is subject to the same realities because of its galloping demography and development strategy.

The introduction of electric vehicles in fleets is surely the first step to overcoming the challenges and obstacles related to electric mobility.

By 2035 gasoline vehicles will particularly disappear according to the United Nations Environment Program (UNEP)

C. THE ELECTRIC MOBILITY IMPLEMENTATION PLAN

AWARENESS OF THE DIFFERENT ACTORS

Actors in the transport sector, in particular drivers, mechanics, vehicle owners were made aware of the introduction of electric vehicles in Côte d'Ivoire, during a workshop which took place on Tuesday, December 13, 2022, in Abidjan.

FEASIBILITY STUDIES FOR THE ELECTRIC MOBILITY PROJECT

Reflection on the taxation to reduce the Value Added Tax (VAT) on electric vehicles.

Reflection on the electricity cost.

Other reflections will be carried out on how to demonstrate the efficiency of an electric vehicle from an economic, environmental and tax point of view.

TARGET STAKEHOLDERS

The project will primarily concern: Public transport fleets, taxis, delivery vehicles, administrative vehicles. To achieve its proper execution, a framework will be created with a view to initiating electric mobility with urban planning and skill development.

D. THE SUCCESSFUL TEST OF ELECTRIC MOBILITY

Ivorian President Alassane Ouattara and Bolloré Group CEO Vincent Bolloré inaugurated the very first line of two electric buses at Félix Houphouët-Boigny University in Abidjan



Called "Bluebus", these 22-seater bus benefit from the "first totally autonomous site in the world that recovers solar energy through photovoltaic panels"

These photovoltaic panels charge batteries during the day, which themselves recharge those of the buses once night falls, all without ever having to use so-called mains electricity.

At a cost of 200,000 euros each, the "Bluebus" promote travel within the campus of the Félix Houphouët-Boigny University of Abidjan.

The LMP (lithium-methane-polymer) batteries that equip the Bluebus represent a major technological leap forward.

E. OTHER INITIATIVES



BUS RAPID TRANSIT – ELECTRIC BUS

It is planned to implement a "Bus rapid transit (BRT)" project, an electric bus to connect Yopougon to Bingerville, a line that extends from the west to the east of Abidjan. The finalization of the Electric Bus Project and the public-private partnership are underway.

This network will have a dedicated corridor along the entire route, the service will transport nearly 300,000 passengers per day, with frequencies exceeding one bus per minute at peak times.

SMART CITY PROJECT

With the Smart City project, in the city of Plateau, the business center of Abidjan, there will be a pool of electric vehicles that people will use to circulate in the city.

F. THE BIBLIOGRAPHY

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THANKS