

NAMA Support Project

Promoção da Mobilidade Elétrica em Cabo Verde (ProMEC)

Visão Geral e Estado de Implementação

Workshop de lançamento, 25.2.2021

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NAMA Facility

Por ordem do



Ministério Federal
do Ambiente, Proteção da Natureza
e Segurança Nuclear



Department for
Business, Energy
& Industrial Strategy



Danish Ministry
of Energy, Utilities
and Climate





Preparação do ProMEC

- Idea to apply for funding from NAMA Facility (NF) project for promoting electric mobility was developed in 2017
- Initial assessment of the potential of electric vehicles (EV) in CV was conducted by DNICE and GIZ with funding from the NF at the beginning of 2018
- GIZ and the Ministry of Industry, Commerce and Energy (MICE) jointly participated in the NF's 5th Call for Projects and submitted an "Outline" in March 2018
- An interministerial working group led by MICE developed an ambitious Electric Mobility Policy and Action Plan that was adopted in February 2019
- DNICE and GIZ conducted studies on electric mobility during the detailed preparation phase (DPP) of ProMEC
- The detailed project proposal was submitted in December 2019 and approved in June 2020



Key facts

- Implementing institution: Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) GmbH
- Political partner: Ministry of Industry, Commerce and Energy (MICE)
- Implementation partner: National Directorate of Industry, Commerce and Energy (DNICE)
- Implementation period: 06/2020 – 05/2025
 - Phase 1: 06/2020 – 08/2021
 - Phase 2: 09/2020 – 05/2025
- Funding: NAMA Facility
- Budget: approx. 7.2 million EUR

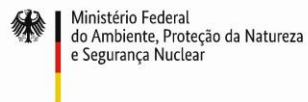


Background on NAMA Facility and NSPs

- The NAMA Facility is an international climate financing programme that supports ambitious measures to combat climate change, so-called NAMA Support Projects (NSPs)
- The NAMA Facility's Donors include the German Ministry for the Environment, Nature Conservation and Nuclear Safety (BMU), the UK Department for Business, Energy and Industrial Strategy (BEIS), the Danish Ministry of Climate, Energy and Utilities (KEFM) and the European Union
- NSPs are selected through Calls for Projects in a two-stage process (outline, detailed proposal).
- The NAMA Facility portfolio is currently composed of 34 NSPs.

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Project objective and indicators (I)

Objective: Climate-friendly electric vehicles (EV) have reached a significant share in Cabo Verde's vehicle market.

Mandatory core indicators:

M 1: *Electric vehicles reduce the road transport-related **GHG emissions** directly by 19,890 tCO₂ and indirectly by 401,481 tCO₂ (17,552 tCO₂ and 348,636 tCO₂ if emissions of battery production are taken into account).*

M 2: *14,745 **people benefitted** directly from the introduction of electric vehicles and/or training/technical assistance in the area of electric mobility.*

M 3: *Degree to which PromAE is likely to catalyse **impacts** related to the conversion of the vehicle fleet towards climate-friendly EVs **beyond the project implementation period***

M 3.1: *An amendment of **GoCV procurement rules** facilitating the procurement of EVs by public institutions is adopted.*



Project objective and indicators (II)

M 3.2: A **legal obligation** for city bus operators to use a **minimum percentage of electric buses** is adopted.

M 4: EUR 5.4 million of **public finance** is **mobilised** for the procurement and promotion of EVs and EV charging stations (i.e. low carbon investment and development).

M 5: EUR 12.3 million of **private finance** is **mobilised** for the procurement of EVs and EV charging stations (i.e. low carbon investment and development).

Sector indicators:

- **S 1:** The **share of EVs in the total annual sales** of light-duty vehicles (LDV) has risen to 4.3%.
- **S 2:** The **share of EVs in the total annual number of vehicles procured by the public administration** has risen to 10%.



Project components

- 1. Rebate programme** for supporting the acquisition of 600 EVs and 50 EV charging stations
- Establishment of a network of a minimum of 40 **public charging stations**
- 3. Legal and regulatory framework** for EVs and EV charging
- 4. Electric bus pilot projects**
 - City buses in Cabo Verde's two largest cities Praia and Mindelo (2 each)
 - School buses (3)
- 5. Capacity building** for sector professionals in Cabo Verde incl. international knowledge exchange
- Monitoring and reporting of road transport-related **GHG emissions**
- 7. Awareness raising**
- 8. Grid integration** of EV charging



1. EV Rebate programme

- GoCV (with financial resources from ProMEC) will support the acquisition of new EVs with rebates (grants)
- The amount will depend on the vehicle category
 - Initially the equivalent of approx. 6,000 EUR for regular cars
- The rebates will be lowered every 9-11 months (4 funding periods)
- Only battery-electric vehicles will be eligible, no Plug-in Hybrid Electric Vehicles (PHEVs)
- Luxury vehicles will be excluded
- The first 50 applicants will also receive rebates for private charging stations
- Applications will be submitted through a web-based platform

Status: Detailed concept under development



2. Charging infrastructure

- NSP will provide financial support to one or several private investors that will establish and operate a network of a minimum of 40 commercial charging stations
- This network will include a minimum of 3 DC fast charging stations
- The investor(s)/operator(s) will be selected through a competitive tender
- The scope of the network will be defined in early 2021

Status: Kick-off meeting with consultants who will assist in the preparation of the tender will be held next week



3. Legal and regulatory framework

Develop/amend various legal and regulatory documents to

- legalize the use of EVs for different forms of public transport (taxis, city buses, rental cars etc.)
- create a legal basis for the commercial provision of EV charging services
- regulate EV charging tariffs
- establish technical standards e.g. for EV charging stations
- ensure a safe and environmentally responsible disposal of used EV batteries
- facilitate and incentivize smart charging e.g. through tariff incentives
- facilitate the acquisition of EVs by public institutions
- oblige city bus operators to gradually increase the share of electric buses

Status: Detailed proposal for amendment of first decree-law developed (RJGTVM)



4. Electric buses

- The rebate programme will also support the acquisition of electric minibuses
- The NSP will support the city bus operators in Praia and Mindelo to acquire and test electric buses through technical and financial assistance
 - Two electric buses and one charging station each
 - ProMEC will cover cost difference of electric buses vs. diesel buses
- The project will also support three municipalities in acquiring and testing electric school buses through technical and financial assistance (one bus each)

Status: Development of detailed concept for city bus pilot projects has started in consultation with Solatlântico and Transcor



5. Capacity building and knowledge exchange

- The project will provide capacity building and training on e-mobility for
 - public authorities and key stakeholders (DNICE, DGTR, ITAC etc.)
 - instructors of training institutions and car mechanics
 - city bus operators and bus drivers
- Creation of a network of electric mobility professionals and enthusiasts
- Knowledge sharing with stakeholders from other ECOWAS countries and Small Island Development States (SIDS)

Status: Scheduled for implementation phase 2



6. Monitoring and reporting of road transport-related GHG emissions

- Bottom-up assessments of road transport-related GHG emissions
 - Based on newly collected data (composition and characteristics of vehicle fleet etc.)
 - Improved reporting to UNFCCC
- Annual reports about GHG emissions avoided through introduction of Evs

Status: Scheduled for implementation phase 2



7. Awareness raising

Awareness campaign on electric mobility and the rebate programme incl.

- Website on electric mobility
- Social media (news, videos)
- Email newsletter
- Events (e.g. public days at ExpoAuto)

Status: Detailed concept under development



8. Grid integration

- Investigation of grid impact of EV charging
- Technical assistance to Electra for managing electric mobility-related challenges in the management of the electricity distribution grid
- Assessment of the feasibility of introducing vehicle-to-grid technology

Status: Scheduled for implementation phase 2



Financial Assistance Component / Electric Mobility Facility (EMF)

Financing agreement
with MICE

Grant agreements
with city bus
operators

Grant agreements with school bus
owners

Rebates for
EV and
charging
stations

Financial
support to
operators of
public
charging
stations

Solatlântico

Transcor

Municipality
1

Municipality
2

Municipality
3



Electric Mobility Facility Steering Committee

- Mandate:
 - Validate concepts for the different elements of the EMF
 - Supervise the implementation of the rebate programme
- Members: MICE, Ministry of Finance, DNA, DGTR, ANMCV



Ministério da Indústria,
Comércio e Energia

giz Deutsche Gesellschaft
für Internationale
Zusammenarbeit (GIZ) GmbH

Thank you for your attention!

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