









ECOWAS SUSTAINABLE ENERGY FORUM ESEF 2024

Towards a Just Energy Transition in the ECOWAS Region Trações Elétricas de Cabo Verde: Powering Cabo Verde's Electric Future

Exhibition Centre - Abidjan, Côte d´Ivoire November 28 - 29, 2024

www.ecreee.org



Introduction and Background





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• Electric Mobility Action Plan

REEE

- Pilot Experience
- First vehicles 100% electric in Cabo Verde in 07/02/2019



Concession – National Infrastructure

- Modality: Build, Own, Operate, Tranfer (B.O.OT.)
- 40 charging stations for EV's
- 9 Islands
- Kick-off: 10th July, 2023

Current Scenario – How it's going

- **EV Charging Network**: Our company operates a network of over 40 strategically placed charging stations across 9 different islands, designed to support all urban areas and municipalities in the country.
- **Technology**: Semi-fast and fast chargers to reduce charging times and support the shift away from thermal-engine vehicles.
- Fully Digitalized System: Allows users to locate chargers, check availability, register, charge, and online payment.
- **Scalability**: Ability to expand and meet future demands, aiming to contribute toward Cabo Verde's goal of a fully operational National Charging Infrastructure by 2030
- **Regional Potential**: Solution can be replicated in African countries that are in the early stages of mobility transition.

Current Scenario – Mixed infrastructure

- Charger Type: Semi-fast
- Plug type: Type 2/Mennekes
- Power per plug: 22 kW
- Protocol: OCPP 1.6 JSON
- Ethernet/4G comunication

Current Scenario – Mixed infrastructure

- Charger Type: Fast
- Plug type: Type 2/CCS/CHAdeMO
- Power per plug: 22kW / 50kW
- Protocol: OCPP 1.6 JSON
- Ethernet/4G comunication

Current Scenario – Digital component

TECV Mobile app

Download the app here!

Current Scenario – Digital component

• Software integration: Real-time monitoring, online payments, full control of the chargers remotelly, user control, SaaS (software as a service)

Tarriff integration per charger, per plug, per time of the day, minute, kWh, usage

- Installed Base: Over 45 chargers currently in operation across all the Island of Cabo Verde.
- Active Users: More than 200 regular users benefiting from reliable and accessible charging services.
- **Growth in Usage**: Monthly charging sessions growing at 11% monthover-month.

- **Growth in kwh**: Monthly energy (KWh) provided growing at 19% month-over-month.
- Most used charger: Fast charger 50 kW in Santiago Island

Most used charger and why

- Fast charger installed in Cabo Verde
 - More than 2 500 charging sessions
 - 17 kWh per session average
 - Over 45 MWh supplied
 - 52 minutes per session average
 - Close to restaurants and beach

APP VS Chip RFID

- APP usage: 10%
- Chip RFID usage: 90%

Solar integration and tariff reduction

Expansion

Grid friendly

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