



German-Brazilian project promoting electro-mobility (PROMOB-e)

Background

Under the German Climate Technology Initiative (DKTI), GIZ works on behalf of the German Federal Ministry for Economic Cooperation and Development (BMZ) to implement the DKTI Energy-Efficient Propulsion Systems project in cooperation with the Brazilian Ministry for Industry, Foreign Trade and Services (MDIC). The project aims to improve the general conditions for electromobility.

Brazil is committed to reduce its greenhouse gas emissions by 43 per cent (compared to 2005 levels) by 2030. Furthermore, Brazil aims to improve its energy efficiency; electromobility can have positive effect on this development.

Having in mind that the transport sector accounts for more than half of fossil fuel consumption and for 46 per cent of greenhouse gas emissions from Brazil's energy sector and the slow uptake of electric and hybrid vehicles, the DKTI is positioned to change the market and contribute to Brazil's aims.

Impacts of the Project

- Improved energy efficient and cleaner air
- Strategies and public measures to promote energy-efficient propulsion systems
- Standardisation and regulation of electromobility in Brazil
- Business models and pilot projects for energy-efficient propulsion systems

Projectname	German-Brazilian project promoting electro-mobility (PROMOB-e)
Commissioned by	Federal Ministry for Economic Cooperation and Development (BMZ)
Implemented by	GIZ
National Partners	Ministry for Industry, Foreign Trade and Services (MDIC)
Duration	2017 to 2020
Funding	Approx. 5 Mio Euro

Standardised charging infrastructure, Soninha Vill



Project Goals

- Development of strategies and public measures to promote energy-efficient propulsion systems
- Standardisation and regulation of electromobility in Brazil
- Business models and pilot projects for energy-efficient propulsion systems



Electrified public transport in Brazil, Soninha Vill

Strategy

Following the United Nations (UN) Paris Climate Conference (COP21), Brazil announced its intention to reduce its greenhouse gas emissions by 43 per cent (compared to 2005 levels) by 2030. In addition to increased use of renewable energy, the country is striving to improve its energy efficiency by 10 per cent. At present the transport sector accounts for more than half of fossil fuel consumption and for 46 per cent of greenhouse gas emissions from Brazil's energy sector.

The Energy Research Company (EPE) in Brazil forecasts that the passenger car fleet will treble in size by 2050, with battery electric vehicles making up ten per cent. However, growth is slow on the Brazilian market for battery-powered and plug-in hybrid vehicles.

Electromobility for a better climate!

The political coordinator of the project is MDIC, which draws up guidelines for promoting the international competitiveness of the automotive industry. The project's technological approach focuses on plug-in hybrid vehicles and battery electric vehicles. It aims to support pilot projects in local public transport and in public and private fleets in their development of business models. This experience will help in identifying mechanisms for promoting electric mobility.

The project has several strategic partners, including the Ministry of Science, Technology, Innovation and Communication (MCTIC), so that it can promote investment in research and development. The Ministry of Cities (MCidades) is integrating electric mobility into local public passenger transport. Schemes involving the private sector and public and private fleet operators are planned.



Charging infrastructure, Martin Schaefer

The Ministry of Mines and Energy (MME) and the Energy Research Company EPE are the partners responsible for incorporating the future electricity needs of electric vehicles into national energy planning. The Brazilian Electricity Regulatory Agency (ANEEL) will regulate and improve the sale of electricity for electric vehicles. The Brazilian Development Bank (BNDES) develops financing options for electromobility, while the Brazilian Agency for Industrial Development (ABDI) promotes investment in Brazil as a production location. Additional cooperative

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