



Clean and integrated public transport system Florianópolis, Brazil, supported by FELICITY

The Transport Sector and its relevance for NDC

The transport sector in Brazil accounts for 46% of all energy related emissions of greenhouse gases. Adding to the sector's importance to climate change, around 80% of the Brazilian population live in cities and are heavily affected by the sector. The Brazilian Nationally Determined Contribution (NDC) and implementation strategy highlight sustainable urban mobility as a key pillar to achieve the climate objectives. Given the urgency to improve urban mobility and safeguard public health, several cities are already shifting to low-carbon modes of transport.

Introduction of city and the project

The aim of the project is to integrate the transport systems of eight municipalities into one energy efficient transit alliance and renew the current bus fleet in the metropolitan area of Florianópolis, providing services to almost 1.19 million inhabitants. The current fleet counts approximately 450 buses with diesel engines, and should gradually be replaced by cleaner technologies. Furthermore, the project includes an operational control center, new bus depots, digital information and payment systems and two terminals.

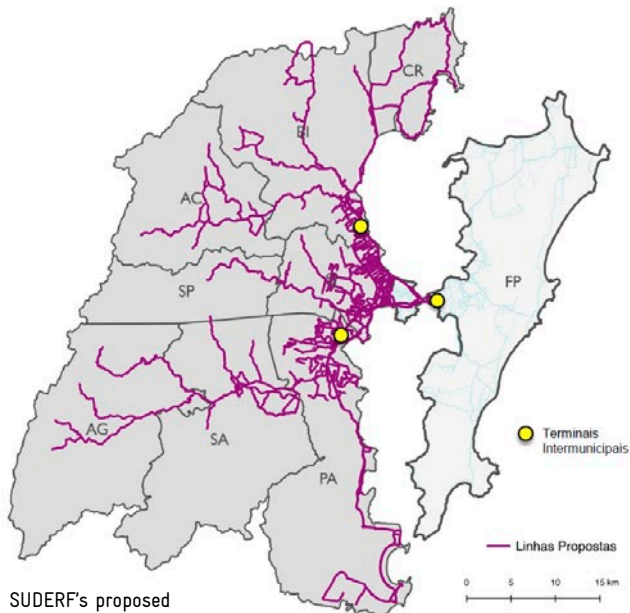
Ultimately, this would improve the quality of the public transport system for users, support the creation of new employment and improve. This ambitious project is rooted in the integrated Sustainable Urban Mobility Plan developed in a broad stakeholder engagement process and is implemented by the regional Superintendency for the development of Florianópolis' Metropolitan Region (SUD-ERF), an entity owned by the State of Santa Catarina.



Florianópolis' pilot e-bus at the state university UFSC.

FELICITY in a nutshell

"Financing Energy for Low-carbon Investment- Cities Advisory Facility" is an initiative of GIZ and the European Investment Bank (EIB) to support low-carbon urban infrastructure projects that have significant impact on economic development. As a project preparation facility, FELICITY offers technical assistance to cities in designing and structuring their infrastructure investment projects. FELICITY prioritizes the interest of cities and incorporates the perspective of international financiers.



SUDERF's proposed integration of municipal and intermunicipal bus lines.



Exclusive bus lines of the transit alliance.

FELICITY Support

FELICITY will support SUDERF in the process of comparing clean bus technologies and the associated infrastructure options by conducting a total cost of ownership (TCO) analysis. This life-cycle analysis will help to reduce the financial and technical uncertainties related to clean buses.

Further support focuses on assessing the economic impact of this project as well as GHG emission reduction potentials, risk mitigation strategies for potential social and environmental implications, enhance the existing financial models, tech-

nical requirements for integrating the selected technologies. Additional measures will address the transport service quality of the new transit alliance.

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