

FACTSHEET MONTEVIDEO



Demonstration City | Montevideo - Uruguay

Montevideo, the capital city of Uruguay, has a population of 1.3 million, more than 30% of the country's population. Uruguay's GDP per capita is US\$16.245, which is amongst the highest in the region. In 2014, its per capita CO2 emissions were 2 tonnes. Uruguay has undergone a structural transformation of its electricity system, as such more than 90% of the electricity generated now comes from renewable sources. Transportation is the sector with the second highest energy consumption in Uruguay and is the main consumer of petroleum derivatives and the largest emitter of CO2 (MIEM n.d). This can be explained by the fact that 82% of the motorised trips are completed in private vehicles with an average annual growth of the light-duty vehicle fleet of 7%.

The planned demo action consists of assisting with the construction of a high-capacity bus depot to charge the existing and planned e-buses overnight, taking advantage of the electricity oversupply and a reduced electricity price at night. Since March 2020 there are 30 e-buses running in Montevideo and the bidding process for the next 40 will start in the following months. The high-capacity bus depot in the city centre bus terminal Ciudadela, where several bus operators start or finalise their journeys will integrate efficient and cost-effective smart charging solutions compliant with Combined Charging Standard (CCS) and Open Charge Point Protocol (OCPP)19. This will allow charging of up to 4 buses with 1 charger. Moreover, the strategic location of the terminal would allow the installation of charging points for e-car-sharing or e-taxi providers (still being explored). Moreover, SOL+ will cooperate with the MOVÉS project for a joint program that will integrate: 1) local assembly of cargo e-2- and 3-wheelers, 2) a renting scheme for the produced vehicles that will ensure producers a renting fee for each vehicle during a year, and 3) identification of potential long term users of the produced vehicles.

E-bus charging equipment in the Ciudadela Terminal



Vehicles involved: 20 BYD e-buses
10 Yutong e-buses

Integration with PT systems: "Ciudadela" is a bus terminal where several PT lines start or finalise their trips. The purpose of this charging infrastructure is to provide an alternative charging point for PT operators



Urban Logistics

Vehicles involved: 2 electric 3-wheelers
15 e-cargo bikes



Integration with PT systems: without integration with the PT system

Time span: From June 2021 - December 2021



E-taxis

Vehicles involved: 10 E-taxis

Operation: Multi-standard 50 km fast charging for e-taxis

Integration: Bus and taxi service integration