

HYDROGEN STATIONS

The refuelling process in a hydrogen station is very similar to that of a conventional petrol station, although the hydrogen is supplied at high pressure

Renewable energies

Green hydrogen is produced with renewable energy.

Water

The water used for electrolysis must contain salts and minerals to conduct electricity.

Electrolyser

It uses electric current to separate hydrogen from oxygen in water.

Compressor

It increases the pressure of hydrogen to store it.

Tanques

O hydrogen é armazenado em tanques de alta pressão – 500 bar.

Dispenser

Depending on the size, it delivers between 60 and 120 g/s for vehicles from 200 kg/day up to 2,000 kg/day.

Cooler

The supply requires that the hydrogen be refrigerated.

Conjunto de baterias

Hydrogen tank

The hydrogen tanks are located in the upper part.

Electric motor

In charge of bus traction.

Fuel cell

Generates the electricity needed to move the vehicle.

Buses typically have 5 tanks of 7.5 kg each at 350 bar, for a total of 37.5 kg of hydrogen.