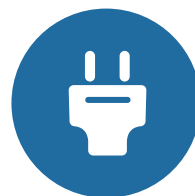




# Verkehrsbetriebe Zürich (VBZ)

a smart bus system



# lighTram® 19 DC

Thanks to its low-emission electrical drive, the lighTram® is the ideal means of transport for heavy urban traffic. As powerful as they are, they are quiet, economical in their energy consumption and returning recuperated braking energy. With its generous riding and seating comfort and ease of entry the lighTram® is as highly appreciated by bus companies as it is by passengers. Thanks to innovative, patented drive technology, with intelligent control, it impresses even in winter and topographically difficult conditions.

A project of:	Verkehrsbetriebe Zürich (VBZ)
Line:	83 - the lighTrams are replacing the diesel buses previously used. With the conversion to trolleybus operation, VBZ will save over 200,000 litres of diesel and around 540 tonnes of CO2 annually.
Vehicles:	9 lighTram® 19 DC
Total capacity:	164 + 1
Bus body:	Aluminum system CO-BOLT®
Steering:	Electrohydraulic
Traction:	Electrical on axles 2+3 Permanent magnet motors, liquid-cooled
Energy recovery:	Yes
Energy storage:	Yes, incl. smoothing of current peaks
Heating / Cooling:	100% electrical: fully automatic heating and air conditioning
Length, Width, Height:	approx. 18,74 m, 2,55 m, 3,5 m
Driver's area:	Compatible with VDV
Plug charge:	CCS 2
Pantograf charge:	Conductive energy supply type DC (Dynamic Charging) while driving, 600 V / 750 V

