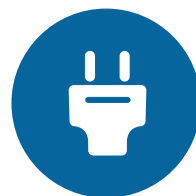


SwissTrolley® plus



Intelligent, efficient and flexible

a smart bus system

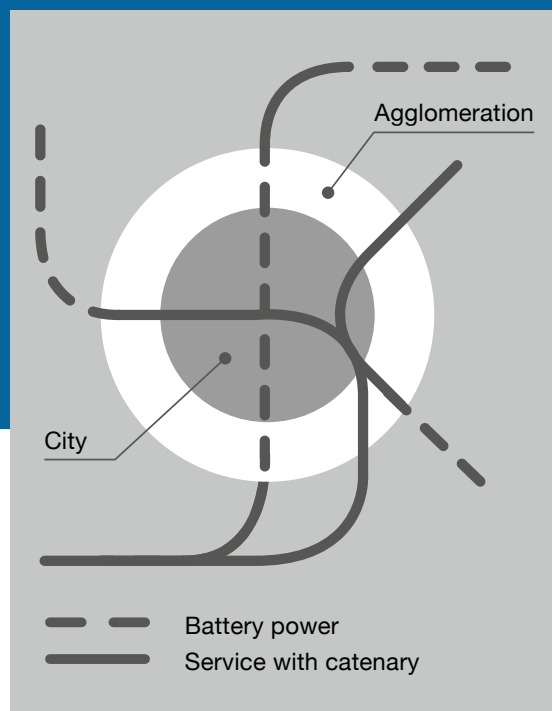


MOTION & EMOTION

HESS

SwissTrolley[®] plus

For more than 75 years, HESS trolleybuses have been providing safety and comfort in the local public traffic. HESS trolleybuses bring tens of thousands of people to work every day, in many towns and metropolitan areas, take them comfortably back home again or to a place they want to go to for leisure activities. With the SwissTrolley[®] plus, HESS and their project partners confirm the worldwide good reputation of Switzerland as a country of reliability, innovation and perfection.



A project of:	HESS, VBZ Zürich, ETH Zürich, Berner Fachhochschule, Bundesamt für Energie
Total capacity:	163 +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
Energy management:	Self learning and optimising control- and regulation algorithms
Regular service without catenary:	up to 50% per circulation
Operational service without catenary:	up to 30 km
Heating / Cooling	100% electrical: Infrared heating and Heat pump with air conditioning for passengers, separate air conditioning for driver
Length, Width, Height:	approx. 18,7 m, 2,55 m, 3,5 m
Driver's area:	compatible with VDV
Maintenance & service:	real-time data monitoring
Homologation:	Standard trolleybus EN 50502 Battery vehicles ECE R100
Plug charge:	HESS Trolley Charging Station 400 V AC, 22 kVA
Pantograf charge:	Conductive energy supply type DC (Dynamic Charging) while driving, 600 V/750 V, 200 kVA

