



VOLVO BUSES

# VOLVO 7900

Hybrid, Electric Hybrid and Electric



# The future is electric

- There is a general trend toward allowing fewer cars into city centres. This means a growing demand for transport capacity without increasing the environmental stress. The need for **safety zones**, **zero emission areas** and even **indoor terminals** has become a reality.
- Volvo's city mobility offer covers all these concerns and considerations.
- **Silence is golden**  
The challenge of noise is rapidly rising on the agenda of virtually every city. With electrically powered buses noise emissions are reduced.
- **Zone management**  
In dense city areas, not all types of traffic can be permitted. For reasons of noise, emissions and general safety, restrictions are applied in defined zones or at specific points. Volvo offer proven tools needed to manage these zones.
- **Energy efficient**  
With electric and hybrid buses, your fuel cost is substantially reduced compared to a regular diesel bus.



# A leader in **electrified vehicles**

- Exceeding 7,000 buses sold



More than 7,000 hybrid and full-electric buses sold



# The three cornerstones of Volvo Buses **electromobility** offer

## Product portfolio

The future will be a mix of:

- Hybrid.
- Electric Hybrid.
- Electric.

## Complete system offering

- Buses, infrastructure and services.
- Battery charged by km.
- Competitive Life Cycle Cost vs. Diesel.

## Open interfaces

- One open and standardised interface for charging infrastructure.
- Enable buses from other suppliers.
- Driving standardisation together with Siemens and ABB.



# OPPORTUNITY CHARGING

Cost efficient charging of highly utilised bus systems

- **No range limit** for bus utilisation in traffic. Utilising natural charging opportunities at terminal stations.
- **High utilisation of charging infrastructure.** Same charger and pantograph used by many buses.
- **Optimised system performance.** Pantograph placed in mast to save vehicle weight.
- **Electricity consumption distributed over day and night.**
- **Electric power outtake** from power system **distributed geographically.**



The biggest challenge for Electric buses is that the TCO is still higher than the TCO of regular Diesel buses.

**How can we make sure, together with CMC, that the social benefits get rewarded???**



