Electrified Public Transport Solutions

Technical Expert Meeting
UNFCCC
Bonn, Germany
6 June 2015
Sustainable Transport System
Eco-Friendly Technologies
Once upon a time...
Electric trolley
Compressed natural gas
Diesel
Diesel hybrid
and now...
Battery-Powered Electric Transport System
BYD Electric Bus

1.5 - 5 hours
AC Charging

100%
Environmentally Friendly Battery

0 Emissions

160 - 370 km
On a single charge
Range under SORT conditions

Aluminum Body

Low Operating Costs

Wheel-hub Motor

Environmentally Friendly Battery

0 Emissions

160 - 370 km
On a single charge
Range under SORT conditions

Aluminum Body

Low Operating Costs

Wheel-hub Motor
BYD Electric Taxi

- **0** Emissions
- **100%** Environmentally Friendly Battery
- **2 hours** AC Charging
- **5 seats**
- **Low Operating Costs**
- **300 km**
- **400 km**
BYD Electric Vehicle Highlights

0 emissions
Reliable battery
70% operating cost reduction
Extended EV range
BYD Electric Vehicle Journey Around the World

Tested in 211 cities

- 55
- 156

Canada, United States, Canada, United States

Mexico, Colombia, Brazil, Ecuador, Uruguay, Chile

Iceland, Finland, Denmark, Poland, Sweden, France, Netherlands, Switzerland, UK, Czech Republic, Belgium, Austria, Germany, Hungary, Italy, Romania, Serbia, Slovakia, Turkey, Israel, China, Japan, India, Singapore, Malaysia, Sri Lanka, Indonesia, Australia, Laos, Brazil, Chile, Uruguay, Ecuador.
BYD Ebus Footprints in Europe

47 European cities

2nd June, 2015
BYD e6 Taxi Footprints in Europe

47 e6 taxis delivered
Reach up to 200 units by the end of 2015

3 e6 taxis running for 2 years and another 22 to be added to the fleet

London, UK

Rotterdam, Netherlands

14 e6 taxis put into operation in September, 2014

Brussels, Belgium

34 e6 taxis delivered on October, 2014
BYD Electric Vehicle Operation in Shenzhen
BYD Electric Vehicle Operation in Shenzhen

**Kilometers driven**

1st June, 2015

**2015**

- **800** units of e6 taxis running in Shenzhen

- **780** units of ebus running in Shenzhen

**Highest mileage of single taxi**

- **687,000 km**

**Accumulated mileage**

- **303,420,000 km**

**Highest mileage of single bus**

- **254,000 km**

**Accumulated mileage**

- **67,360,000 km**
BYD Electric Vehicle Operation in Shenzhen

CO₂ Reduction
1st June, 2015

55,830 tons
70,054 tons
125,884 tons in total

Trees planted
699,356 yearly
Ambitions
BYD ‘7+4’ Vehicle Electrification Strategy

- Passenger car
- Construction
- Mining sites
- Airports
- Harbors
- Municipal equipment
- Warehouses
- Delivery
- Public transport
- Road transport

Strategy
BYD ‘7+4’ Vehicle Electrification Strategy

Public transport
Road transport
Taxi
Municipal equipment
Construction
Passenger car
Delivery
BYD ‘7+4’ Vehicle Electrification Strategy

Warehouses
Airports
Mining sites
Harbors
China takes world leadership in electrifying road passenger transport
China's Leadership in Electrifying Passenger Transport

China to extend new er subsidies to 2020

董扬：中国新能源车推广量或成世界第一
China's Leadership in Electrifying Passenger Transport

- China no. 1 in new energy vehicle sales
- New energy vehicle subsidies extended to 2020
- Subsidy to promote new energy buses
- Shenzhen to invest 0.7 billion EUR to develop new energy vehicle market
- 20,000 EUR provided for changing traditional taxis to electric ones in Shenzhen
Barriers
Barriers

• For regulators

Charging infrastructure and generating capacity – **both soluble**
• For operators

Higher initial cost – TCO is lower; range anxiety – no longer applies
Barriers

• For green lobby

Electric is **cleaner, cheaper, more available** than alternatives and is **emissions free** on city streets
The time is **right** for all of us to take **urgent** action to introduce electric vehicles.
BYD electric vehicle for a better city

Thank You!