

Straddling bus to combat China's traffic congestion

The Transit Elevated Bus (TEB) is an innovative new type of transport that aims to solve the problem of China's overcrowded roads by straddling traffic lanes, allowing cars to drive underneath

Elevated bus stop

Allows passengers on and off

Power: Electricity and solar energy. Bus uses "relay charging" – conductors on roof brush against charging stations along route, providing enough power to reach next station

Solar panels

Mounted on bus roof and at each bus stop

Aug 2, 2016, Qinhuangdao:
Inaugural test along 300m controlled route

Beijing

CHINA

500km
310 miles

TEB: 22m long, 7.8m wide, 4.8m high – straddles two traffic lanes
Passengers: 300
Top speed: 60km/h

Route: TEB runs along rails laid on regular roads. Up to four TEBs can be linked together to transport 1,200 passengers

Bus

TURNING

1. Before junction, lights inside bus warn traffic underneath of intention to turn

2. Vehicles wishing to turn in same direction as bus receive green signal at junction

3. Traffic moving straight ahead will be stopped to allow bus to turn first

Safety features

Alarms embedded in walls of bus are triggered if other vehicles get too close. In case of accident or emergency, passengers can disembark using inflatable slides, as in commercial aircraft

Traffic "tunnel"

Clearance 2m. Sensors on front and rear emit ultrasonic waves to prevent high vehicles from entering

Barriers

Restrict vehicle height along route

Source: Xinhua

© GRAPHIC NEWS