



Three major environmental questions

World oil crisis

- ♦ 40% of liquid fossil fuels are used in the transport sector.
- ◆ 20-30% growth in the automobile industry in developing countries.

CO2 emissions

- ◆ In 2008, Brazil had a total CO2 emission of 364.4 million tons, 149.5 million tons of which 41% came from the transport sector
- ◆ Fatal effects of greenhouse gases on the climate

Air pollution

 More than 53% of oxynitride (NOX and SOX) emissions come from motor vehicles

Source: United Nations Environment Program. Green Economy Report. International Energy Agency. Report of the panel on environmental matters for presentation to the Legislative Council.



Contrasting the impact of pollution and consumption of fuel

	Distance (km/day)	Consumption of fuel (liters)
Taxis	170-200	16-20
Private sedans	40-50	4-5
Buses	220-280	120-150

CO2 emission in the State of São Paulo in 2008

In 2008, in the State of São Paulo, total emissions of CO2 amounted to 77.2 million tons, 42.7 million tons of which - 55% - came from the transport sector. The CO2 emissions from vehicles amounted to 36.24 million tons, that is to say 47% of the total.

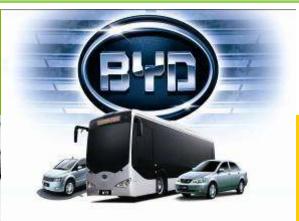
	Gg CO2	%	
cars	10,894	30.06%	
light commercial vehicles	2,372	6.55%	
motorbikes	0,798	2.20%	
buses	7,459	20.58%	
Trucks	13,516	37.30%	
natural gas vehicle (GNV)	1,201 Sour	3.31% ce: Government of São P	aulo, Bureau of the
Total	36,240 Envi	ronmen 100.00%	
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BYD is the world's only manufacturer of e-buses all-electric sedans and Fe batteries









BYD's "Green City" solution



EV



EV buses





Outstanding power system; the E-driving solution



Maximum speed: 140km/h



• 0-100km/h:<10s



• City distance: 300km





E6: the recharging solution

Convenient recharging solution



- Normal charge: totally charged in 6 hours
- Rapid charge: totally charged in 40 min.



The e6 Fleet











BYD K9: general perspective



Benefits of "Electric Driving":

- Zero emissions, ecological
- Combined distance: over 250km
- Low noise level
- Savings in energy

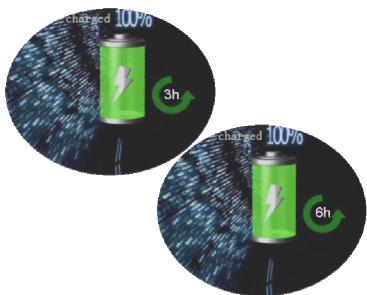




K9 recharge system







Normal charge: totally charged in 6 hrs

Rapid charge: totally charged in 3 hrs

Sun roof



Fleet of vehicles in São Paulo city

Number of passenger automobiles in São Paulo city in 2008:

5,104,087

Number of taxis in São Paulo city in 2008:

32,150

Number of buses in São Paulo city in 2008:

42,437

Source: São Paulo State Department of Transport, DETRAN Sao Paulo Department of Public Transport DTP/SMT



BYD

Scenario

Passenger automobiles - distance per year: 18,250 Km

Taxis – distance per year: 80,000 Km

Buses – distance per year: 84,000 Km

Type of fuel – passenger automobiles: 50% gasoline, 50% ethanol

Type of fuel - taxis: 50% gasoline , 50% ethanol

Type of fuel - buses: 100% diesel

Fuel consumption – passenger automobiles:

8L gasoline/100 Km, 10L ethanol/100Km

Fuel consumption - buses:

60L diesel/100Km

Price of electricity: US\$ 0.21/KWH

Price of gasoline: US\$ 1.75/L

Price of ethanol: US\$ 1.30/L

Price of diesel: US\$ 1.25/L

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... and what if all the taxis were ELECTRIC?



	Conventional taxis	BYD e6	Difference
Consumption of energy per 100Km	8 L gasoline, 10 L ethanol	21.5 kwh	\
Price of electricity	US\$ 1.75/L gasoline, US\$ 1.30/L ethanol	US\$ 0.21	\
Cost/100Km	US\$ 13.5	US\$ 4.515	US\$ 8.985
Annual operational cost	US\$ 10,800	US\$ 3,612	US\$ 7,188
8-year operational cost	US\$ 86,400	US\$ 28,896	US\$ 57,504

- ✓ an annual reduction of 293,000 tons of CO2 emissions
- ✓ an annual reduction of 0.81% total emissions by vehicles.
- ✓ operational savings of US\$ 57,504 or R\$ 92,006 over 8 years
- ✓ zero pollution
- √ low noise level



... what if all the buses were ELECTRIC?



	Conventional buses	BYD K9	Difference
Consumption of energy per 100Km	60L diesel	120 kwh	\
Price of electricity	US\$ 1.25/L diesel	US\$ 0.21	\
Cost/100Km	US\$ 75	US\$ 25.2	US\$ 49.8
Annual operational cost	US\$ 63,000	US\$ 21,168	US\$ 41,832
8-year operational cost	US\$ 504,000	US\$ 169,344	US\$ 334,656

- ✓ annual reduction of 7,459,000 tons of CO2 emissions
- ✓ annual reduction of 20% of total emissions by vehicles
- ✓ operational savings of US\$ 334,656 or R\$ 535,450 over 8 years.
- ✓ zero pollution
- √ low noise level



