

Greening of inner city transport

Aside from fuel oil engines, inner city private and public vehicles use four other kinds of engine; natural gas internal combustion engines, electric motors, hybrid powered engines and fuel cell engines. Of all the gaseous and liquid fuels that are used in commercial transport, natural gas has the greatest potential to reduce emissions, but in terms of emissions, the emissions of electric motors are negligible. Hybrid powered engines are those that can be powered both electrically and mechanically. Fuel cell engines tend to not emit hydrocarbons, particulate matter or carbon monoxide.

Trajectory 1

In this scenario, in 2050 the market for new energy cars is fairly small, and the transformation and upgrading of China's car industry lacks necessary market support. Fuel oil powered cars still dominate the market, with 69% of private cars and 61% of public vehicles still reliant on fuel oil. Compared to other types of new energy cars, the development of hybrid cars is relatively fast. The technology for fuel cell engines is pending development.

Trajectory 2

In this scenario, in 2050 there is very little change to the market share of hybrid cars and fuel oil powered cars and together they hold around an 80% market share. Other types of new energy cars develop steadily and the market share of cars powered by natural gas increases to 15%. Fuel cell cars and public vehicles gradually enter the market.

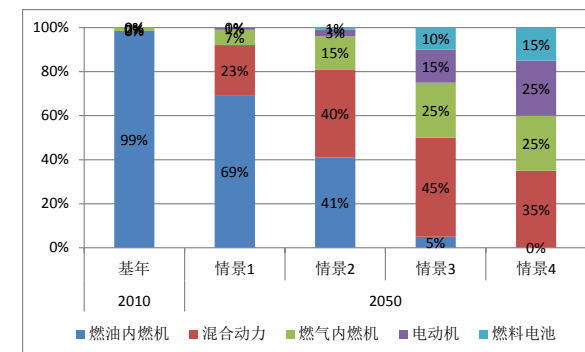
Trajectory 3

In this scenario, in 2050 the market share for new energy cars in China sees a steady rise and the market share for fuel oil powered cars drops to less than 10%. Hybrid cars and electric cars become mainstream, together holding a market share of 60%. Fuel cell cars start to enter a phase of commercialization.

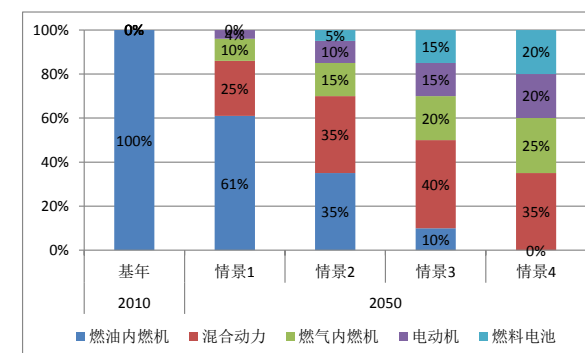
Trajectory 4

In this scenario, in 2050 fuel oil powered cars completely disappear from the market. Of new energy cars, the development of hybrid cars is relatively quick and hybrid cars hold a market share of 35%. Electric cars and natural gas powered cars have similar market shares and together constitute 40% of the market.

Fuel cell cars are commercialized and they see a massive boost in popularity, with market share soaring to 20%.



Percentages of Engines in cars Scenario



Percentages of Engines in public Vehicles Scenario