Chinese auto production is skyrocketing

Almost all Chinese production sold to rapidly growing domestic market

Millions passenger vehicles and trucks

China
75m
China became a net importer in 1990s; now imports ~50% of oil.
Chinese oil demand growth (mainly for transport) leads world

Source: IEA
China has adopted increasingly stringent fuel economy standards.
China has strong incentives for advanced vehicle deployment

$3 billion for public and taxi fleets in 20 cities
$9,000 consumer rebates
China's massive traffic jam could last for weeks

By ANITA CHANG | Published: 2:57 AM 08/24/2010 | Updated: 9:06 PM 08/24/2010
• **Fastest speeds:** Chinese trains now reach operating speeds of 220 mph, faster than their European and Japanese counterparts, and a Chinese train holds the world speed record of 260 mph

• **Largest network:** China’s 4,600 miles of HSR lines is the world’s largest, and by 2020 is expected to more than double to 9,700 miles (more than the rest of world combined)

• **Technology dominance:** in just six years (from 2004-2010) China went from HSR importer to exporter (to Turkey, Brazil, Venezuela and others)
<table>
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<tr>
<th>Energy consumption per capita (million Btu)</th>
<th>Vehicles per 100 people</th>
<th>GHG emissions per capita</th>
<th>Cumulative GHG emissions 1850-2004 (Gt CO2e)</th>
<th>Current GHG emissions (Gt CO2e)</th>
<th>High - tech exports (% manufactured exports)</th>
<th>Annual motor vehicle production (millions)</th>
<th>Coal consumption (% world)</th>
<th>Population (millions)</th>
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<tbody>
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Compare and contrast...
S&T have long been a foundation of U.S.-China cooperation

Deng Xiaoping and Jimmy Carter sign the U.S.-China S&T Agreement – the first bilateral agreement after normalization of relations in 1979
Nov. 2009: President Obama and President Hu announce seven new joint U.S.-China clean energy initiatives