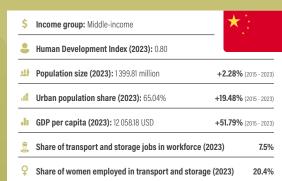
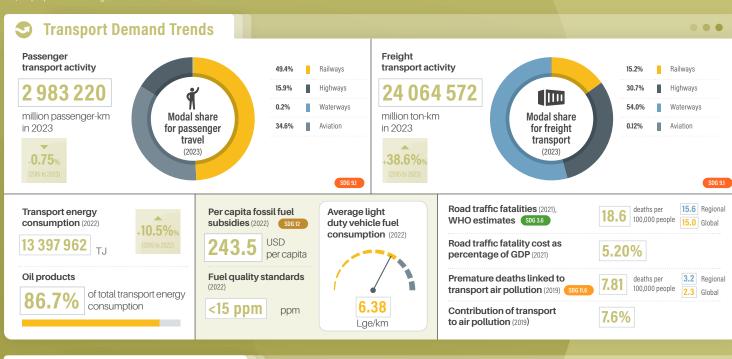
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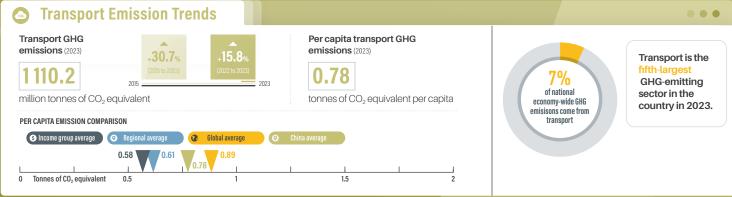
China

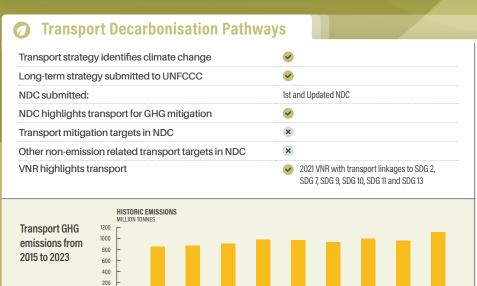
China has witnessed significant growth in freight transport demand, with freight activity increasing by 38.6% from 2015 to 2023. On the other hand, passenger transport activity declined slightly by 0.75%. Rail dominates passenger transport at 49.4%, while waterways lead in freight (64%). Transport GHG emissions rose by 30.7% since 2015, but they are just contributing 7% to national emissions. China was the second-largest emitter of transport GHG emissions after the United States in 2023. Renewable energy, including biofuels and electricity, represented only 5.4% of China's total transport energy consumption Beyond climate impacts, transport-induced air pollution caused 7.8 premature deaths per 100,000 people in China in 2019. Road traffic injury is another leading cause of death, claiming 17.4 lives per 100,000 people and accounting for 5.2% of China's GDP in 2021. In

2020, 53% of the Chinese population had convenient access to public transport. Moreover, a moderately high percentage (71.4%) of China's rural population lived within 2 kilometers of an all-season road in 2019. China has strong policies supporting electrification with 21.8 million electric cars, as of 2023, whereas the carbon intensity of its electricity remains high, at 583.61 gCO_kWh in 2023. Its long-term strategy and NDC reflect significant advancement on transport decarbonisation, yet adaptation measures are limited. The country upgrades their mobility through integrated, centralised urban land use planning, with cities implementing zero-emission zones and sustainable urban mobility solutions. China works extensively on high speed rail expansion as well as rail freight transport.









Transport actions in VNRs

- ▶ Improved food supply chains
- ▶ Railway electrification
- ▶ Efficient, economical, intelligent, green, safe and reliable urban transport

Transport actions in NDC

Mitigation

- ▶ BRT | General transport labels
- ► EV charging infrastructure | Hydrogen
- Expansion of infrastructure | Intelligent transport systems
- Intelligent transport systems
 Freight transport shifting to rail or inland waterways |
 Intermodality measures
- General active mobility | Public transit integration and expansion
- ▶ General alternative fuels | Support on-shore power and electric charging facilities in ports

.

- in ports

 ▶ General economic instruments |

 Vehicle efficiency standards
- General e-mobility | Vehicle restrictions (import, age, access, sale, taxation)
- General freight efficiency improvements

COUNTRY FACT SHEET | CHINA



Policy Areas: Indicators and Targets



| National urban mobility framework (2024) | < |
|---|--|
| Sustainable urban mobility plans (2024) | ✓ |
| Number of sustainable urban mobility plans (2024) | 1 city |
| Low emission zones (2024) | 41 cities |
| Adaptation and Resilience | |
| ND-GAIN Index (2022) | 60.18 |
| Vulnerability score for infrastructure (2022) | 0.17 |
| ∱ Walking | |
| Walkability Score (2024) | 0.20 |
| National walking strategies (2024) | Walking and cycling combined |
| Target ▶ Improve urban transport facilities for cyclists and pedest | trians, promote cycling |
| | |
| Cycling infrastructure in capital (2024) | 3200 km |
| Percent near protected bikeways (2024) | 4% |
| Bike sharing systems (2024) | 502 |
| National cycling strategies (2024) | Walking and cycling combined |
| ≈ | |
| | trians, promote cycling |
| 7 | trians, promote cycling |
| ▶ Improve urban transport facilities for cyclists and pedest | |
| ▶ Improve urban transport facilities for cyclists and pedest □ Public Transport | trians, promote cycling 672 km of total length in 20 cities 4375250 passengers per day |
| ▶ Improve urban transport facilities for cyclists and pedest ☐ Public Transport Bus rapid transit (2024) | 672 km of total length in 20 cities |
| ► Improve urban transport facilities for cyclists and pedest □□ Public Transport Bus rapid transit (2024) Bus rapid transit daily passenger volume (2024) | 672 km of total length in 20 cities 4375250 passengers per day |
| ► Improve urban transport facilities for cyclists and pedest □□ Public Transport Bus rapid transit (2024) Bus rapid transit daily passenger volume (2024) Urban rail (LRT, metro, tram) (2024) Proportion of population that has convenient access to | 672 km of total length in 20 cities 4375 250 passengers per day 11,000 km in 47 cities |
| ▶ Improve urban transport facilities for cyclists and pedest □□ Public Transport Bus rapid transit (2024) Bus rapid transit daily passenger volume (2024) Urban rail (LRT, metro, tram) (2024) Proportion of population that has convenient access to public transport (2020) | 672 km of total length in 20 cities 4375 250 passengers per day 11,000 km in 47 cities |
| ▶ Improve urban transport facilities for cyclists and pedest ☐ Public Transport Bus rapid transit (2024) Bus rapid transit daily passenger volume (2024) Urban rail (LRT, metro, tram) (2024) Proportion of population that has convenient access to public transport (2020) ☐ Intercity Rail | 672 km of total length in 20 cities 4375250 passengers per day 11,000 km in 47 cities 52.96% |
| ► Improve urban transport facilities for cyclists and pedest □□ Public Transport Bus rapid transit (2024) Bus rapid transit daily passenger volume (2024) Urban rail (LRT, metro, tram) (2024) Proportion of population that has convenient access to public transport (2020) □□ Intercity Rail Rail network (2021) | 672 km of total length in 20 cities 4375250 passengers per day 11,000 km in 47 cities 52.96% |
| ▶ Improve urban transport facilities for cyclists and pedest □□ Public Transport Bus rapid transit (2024) Bus rapid transit daily passenger volume (2024) Urban rail (LRT, metro, tram) (2024) Proportion of population that has convenient access to public transport (2020) □□ Intercity Rail Rail network (2021) Rail travel activity (2021) | 672 km of total length in 20 cities 4375 250 passengers per day 11,000 km in 47 cities 52.96% 109767 km 946 499 million passenger-km |
| Improve urban transport facilities for cyclists and pedest Public Transport Bus rapid transit (2024) Bus rapid transit daily passenger volume (2024) Urban rail (LRT, metro, tram) (2024) Proportion of population that has convenient access to public transport (2020) Sogniz Intercity Rail Rail network (2021) Rail travel activity (2021) Rail freight activity (2019) | 672 km of total length in 20 cities 4375250 passengers per day 11,000 km in 47 cities 52.96% 109767 km 946499 million passenger-km 3018200 million ton-km |

| Road Transport | |
|---|--|
| Total road vehicles in use per 1,000 people (2020) | 223.1 |
| Road vehicle fleet growth (from 2015 to 2020) | 95.30% |
| Rural Access Index (2019) SDG 91 | 71.4 RAI PST |
| Diesel prices (2022) | 0.98 USD per litre |
| Gasoline prices (2022) | 1.14 USD per litre |
| → Aviation | |
| Air passengers carried (2021) | 440.3 million people |
| Air freight activity (2021) | 20 961.2 million ton-km |
| Carbon-accredited airports (2023) | 2 airports |
| of which carbon neutral: | 1 airports |
| & Shipping | |
| Logistics Performance Index (2023) | 3.7 |
| Liner shipping connectivity index (Q4 2024) | 171.2 |
| Container port traffic (2020) | 245103781.0 TEU |
| Transport Energy Sources | |
| Biofuel blend overall mandate (2023) | _ |
| Biofuel blend biodiesel mandate (2023) | |
| Biofuel blend ethanol mandate (2023) | 10.0% |
| Carbon intensity of electricity (2023) | 583.61 gCO ₂ /kWh |
| Renewable energy (biofuels and electricity) share in transport (2022) SDG 721 | 5.4% of total transport energy consumption |
| Biofuels (2022) | 0.7% of total transport energy consumption |
| Electricity (2022) | 4.7% of total transport energy consumption |
| Targeted renewable power share | 50% |
| Vehicle Technologies | |
| Emission standards for LDVs (2024) | Euro 4 and above |
| CO ₂ emissions performance for passenger cars (2024) | 89 g CO ₂ /km in 2023 |
| Targeted CO ₂ emissions performance (2024) | 59 g CO₂/km by 2030 |
| Regulatory environment ranking on used vehicles (2024) | |
| Electric vehicles stock for passenger cars (2024) | 23 million vehicles |
| Share of electric vehicles in car sales (2024) | 48% |
| ICE phase-out targets | × |
| Electric vehicles stock for vans (2024) | 1.1 million |
| Electric vehicles stock for trucks (2024) | 360 000 vehicles |
| | |

This fact sheet is part of the SLOCAT Transport, Climate and Sustainability Global Status Report – 4th Edition. The country fact sheets have been made possible thanks to financial support from the ClimateWorks Foundation. Information presented in this fact sheet is based on desk research and may not be complete or reflect the most recent status. Data has been collected to not be complete of renect the most recent status. Data has been collected to the best of our knowledge and availability. Where no information could be retrieved, the indicators are shown in grey. The content does not represent the views of the SLOCAT Partnership on Sustainable, Low Carbon Transport or the ClimateWorks Foundation. For more information, please visit gsr4.slocat.net. Supported by: Prive Electric CAMPAIGN

▶ 165,000 km rail network by end of 2025, of which 50,000 km will be high-speed ▶ By 2035, the railway network will be 200,000 km with 70,000 km high-speed

List of acronyms
GDP Gross-domestic product
HoDV Heavy-duty vehicle
IDE Internal combustion engine
KWh Kllowatt-hour
LUV Light-duty shelice
LRT Light-rall transit
MDC Nationally determined contribution
PST Primary, secondary or tertiary roads

procedure











