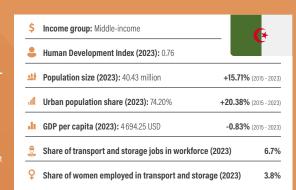
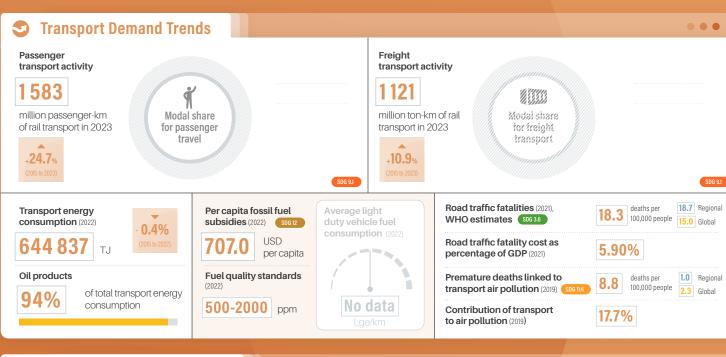
# <u>Algeria</u>

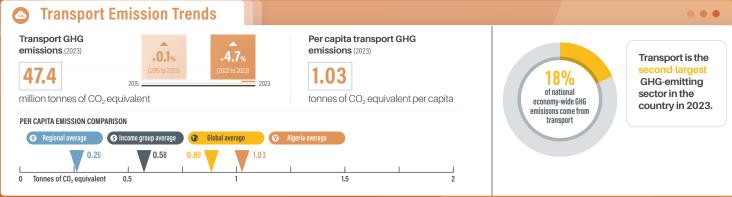
Algeria's transport sector is a significant contributor to emissions, accounting for 18.5% of national GHG emissions. Transport is the second-largest GHG-emitting sector in Algeria, and it recorded a 4.7% increase in transport emissions between 2022 and 2023. Rail transport has expanded, with passenger and freight activity growing by 24.7% and 10.9%, respectively from 2015 to 2023. Fossil fuels dominated transport energy consumption commensurate with high fossil fuel subsidies (707.07 USD per capita in 2022). Transport contributed 17.7% to air pollution in 2019. Although almost half the population has convenient access to public transport

(45.9%), the country lost 18.3 people per 100,000 people to road crashes (2021), and 8.84 people per 100,000 prematurely to air pollution related causes. In 2021, Algeria incurred almost 6% loss of GDP due to road traffic fatality.

Algeria has a very good regulatory environment policy ranking on imported used vehicles. Its NDC highlights transport for GHG mitigation, albeit without specific transpor emission reduction targets nor detailed decarbonisation actions. There are few national policies and frameworks in support of sustainable, low-carbon transport policies.







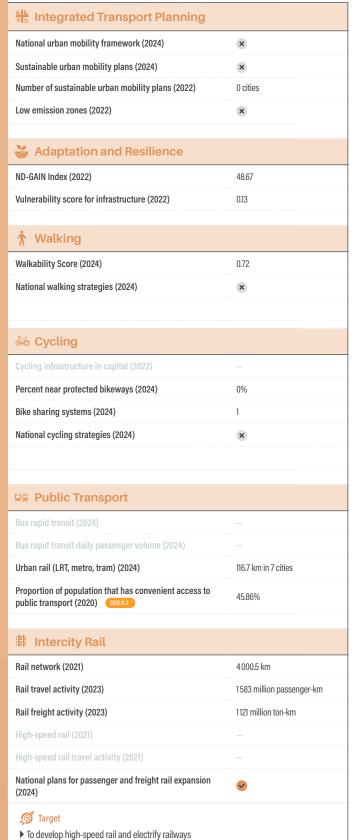


COUNTRY FACT SHEET | ALGERIA



## **Policy Areas: Indicators and Targets**





otal road vehicles in use per 1,000 people (2020)	142.8
Road vehicle fleet growth (from 2015 to 2020)	16.2%
Rural Access Index (2019) SDG 9.1	86.6 RAI PST
Diesel prices (2022)	
Gasoline prices (2022)	
<b>→</b> Aviation	
Air passengers carried (2021)	1.9 million people
Air freight activity (2021)	12.7 million ton-km
Carbon-accredited airports (2023)	
of which carbon neutral:	
Shipping	
Logistics Performance Index (2023)	2.5
Liner shipping connectivity index (Q4 2024)	12.2
Container port traffic (2020)	724991.0 TEU
Transport Energy Sources	
Biofuel blend overall mandate (2023)	_
Biofuel blend biodiesel mandate (2023)	
Biofuel blend ethanol mandate (2023)	
Carbon intensity of electricity (2023)	633.65 gCO <sub>2</sub> /kWh
Renewable energy (biofuels and electricity) share in transport (2022) S0G721	1.1% of total transport energy consumption
Biofuels (2022)	
Electricity (2022)	1.1% of total transport energy consumption
Targeted renewable power share	
<b>ŏ</b> ∈ Vehicle Technologies	
Emission standards for LDVs (2024)	Below Euro 3
CO <sub>2</sub> emissions performance for passenger cars (2024)	
Targeted CO <sub>2</sub> emissions performance (2024)	No target set
Regulatory environment ranking on used vehicles (2024)	Very Good
Electric vehicles stock for passenger cars (2023)	
Share of electric vehicles in car sales (2023)	
ICE phase-out targets	×
Electric vehicles stock for vans (2023)	
Electric vehicles stock for trucks (2023)	

This fact sheet is part of the SLOCAT Transport, Climate and Sustainability Global Status Report –  $4^{\text{th}}$  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 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**.

TEU Twenty-foot Equivalent Unit UNEP United Nations Environment Programme UNFCC United Nations Framework Convention on Climate Change VNR Voluntary national review of the Sustainable Developiment Goals WLTP Worldwide harmonised light vehicles test procedure











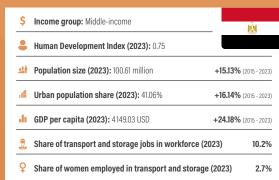


▶ Double passenger volume by 2025

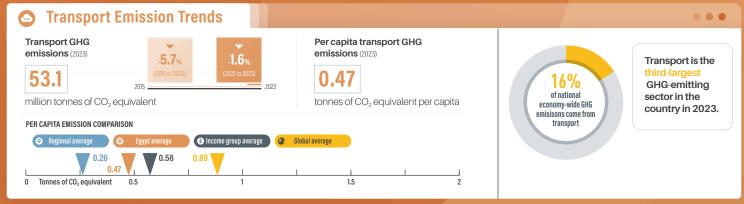
# **Egypt**

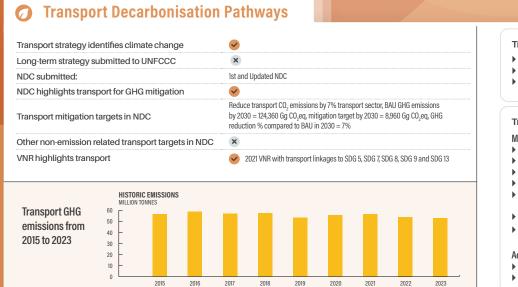
Egypt's transport sector recorded a 5.7% decline in emissions since 2015. However, transport is still a key contributor to national emissions, accounting for 15.8% of total GHG emissions in 2023. The per capita transport GHG emissions in 2023 (0.47 tonnes per capita) were almost twice as high as the regional average. Rail freight and passenger transport activity have seen reductions, and energy consumption is heavily reliant on fossil fuels. Although only about one third of the population has convenient access to public transport (29.5%), 95.5% have access to an all-weather primary, secondary or tertiary road within 2 kilometres. However, fuel quality standards remained low and in 2021 the country.

suffered 4.4% GDP loss in form of road traffic fatality. The country has outlined transport mitigation in its NDC, with a specific target to reduce transport CO $_2$  emissions by 7%. Although electricity still accounts for a very low percentage of total transport energy consumption (0.2%), and electric vehicle adoption is limited, Egypt's updated NDC aims to have renewables accounting for 42% of installed power capacity by 2030. The 2021 VNR highlights development of infrastructure, green bonds for transport, and an integrated national financing framework. Sustainable urban mobility planning is ongoing, and the country has banned importation of used light duty vehicles.









#### Transport actions in VNRs

- ▶ Integrated national financing framework
- ▶ Infrastructure development
- ▶ Green bonds for transport

#### Transport actions in NDC

### Mitigation

► Airport CO₂ certification | General infrastructure improvements

.

- ▶ BRT | General innovations and digitalization
- ▶ Cycling measures | Jet fuel policies
- ▶ Expansion of infrastructure | LPG/CNG/LNG
- Financial instruments to support decarbonisation | Public transit integration and expansion
- ▶ General active mobility | Use of renewable energy
- $\blacktriangleright \ \ \text{General e-mobility} \ | \ \ \text{Vehicle efficiency standards}$

#### Adaptation

- ▶ Adaptation and resilience of transport systems
- ▶ Risk assessment

COUNTRY FACT SHEET | EGYPT



## **Policy Areas: Indicators and Targets**





*	Adap	tation	and	Resilience
---	------	--------	-----	------------

ND-GAIN Index (2022) 47.59 Vulnerability score for infrastructure (2022) 0.30

## **↑** Walking

Walkability Score (2024) 0.20 National walking strategies (2024) Outdated



## **%** Cycling

Cycling infrastructure in capital (2022) 17 km Percent near protected bikeways (2024) Bike sharing systems (2024) National cycling strategies (2024) In progress



▶ In progress

## **₽** Public Transport

Bus rapid transit (2024) Bus rapid transit daily passenger volume (2024) Urban rail (LRT, metro, tram) (2024) 131 km in 2 cities Proportion of population that has convenient access to 29.45% public transport (2020)

### Intercity Rail

Rail network (2016)	5153 km
Rail travel activity (2022)	39 027 million passenger-km
Rail freight activity (2022)	1333 million ton-km
High-speed rail	
High-speed rail travel activity	
National plans for passenger and freight rail expansion	



(2024)

▶ To maximise rail transport contribution to the country's socioeconomic development and effectively support Vision-2030, whose goal is to achieve a sustainable and all-inclusive economy by 2030.

Road Transport	
C Road Hallsport	
Total road vehicles in use per 1,000 people (2020)	63.8
Road vehicle fleet growth (from 2015 to 2020)	20.66%
Rural Access Index (2019) SDG 9.1	95.5 RAI PST
Diesel prices (2022)	0.30 USD per litre
Gasoline prices (2022)	0.53 USD per litre
→ Aviation	
Air passengers carried (2021)	5.6 million people
Air freight activity (2021)	589.5 million ton-km
Carbon-accredited airports (2023)	
of which carbon neutral:	
Shinning	

## Shipping

66.7 Liner shipping connectivity index (Q4 2024) Container port traffic (2020) 5 928 454.0 TEU

## Transport Energy Sources

Biofuel blend ethanol mandate (2023) Carbon intensity of electricity (2023) 574.04 gCO<sub>2</sub>/kWh Renewable energy (biofuels and electricity) 0.2% of total transport energy share in transport (2022) SDG 7.2.1 consumption Biofuels (2022) 0.2% of total transport energy Electricity (2022) consumption Targeted renewable power share 42%

### Vehicle Technologies

Emission standards for LDVs (2024)	Below Euro 3
CO2 emissions performance for passenger cars (2024)	
Targeted CO <sub>2</sub> emissions performance (2024)	No target set
Regulatory environment ranking on used vehicles (2024)	Banned
Electric vehicles stock for passenger cars (2023)	
Share of electric vehicles in car sales (2023)	
ICE phase-out targets	×
Electric vehicles stock for vans (2023)	
Electric vehicles stock for trucks (2023)	

This fact sheet is part of the SLOCAT Transport, Climate and Sustainability Global Status Report –  $4^{\text{th}}$  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 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**.

UNEP United Nations Environment Programme
UNFCCC United Nations Framework Convention on Climate Nations Prantework Convention on Climate Change Voluntary national review of the Sustainable Developiment Goals Worldwide harmonised light vehicles test















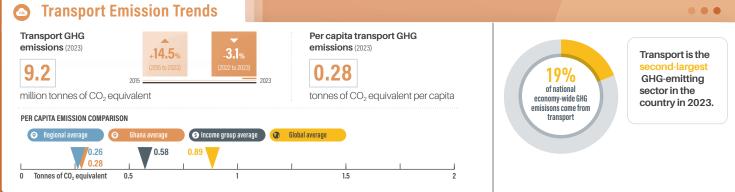
## Ghana

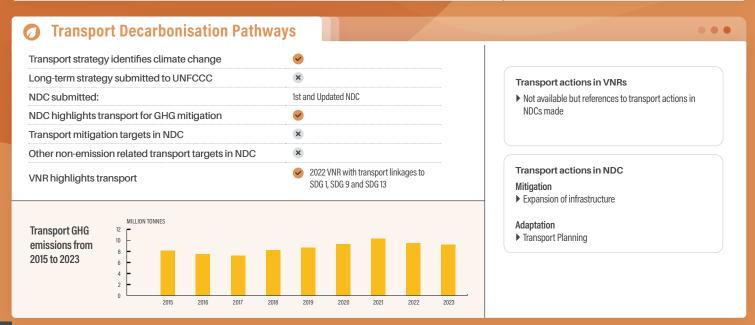
Ghana's transport sector is experiencing rapid urbanisation and increasing demand, with urban populations growing by nearly 30% since 2015, and by 1.2% since the last edition of the country's factsheet. Together with economic growth, transport emissions rose by 14.5% from 2015 to 2023, making it the country's second-largest GHG-emitting sector. Fossil fuels remain the dominant energy source. There is still limited data on freight and passenger transport activity, 24.4% of Ghana's population has convenient access to public transport. In 2021, Ghana recorded a high number

of road traffic fatalities (25.9 deaths per 100,000 people), which cost the country 6.80% of their GDP. Efforts toward decarbonisation include expanding rail infrastructure and integrating transport into national policies. Among these, Ghana is ranked to have a 'Good' regulatory environment for used vehicles. However, with minimal renewable energy use in transport (0.03%), Ghana faces challenges in transitioning to a low-carbon, resilient transport system, especially with sustainable urban transport planning still in early stages.

\$	Income group:Middle-incomex		*
•	Human Development Index (2023): 0.63		
229	Population size (2023): 29.02 million	+17.97% (	2015 - 2023)
.4	Urban population share (2023): 57.82%	+29.71% (	2015 - 2023)
di	<b>GDP per capita (2023):</b> 2106.79 USD	+20.97%	2015 - 2023)
ç	Share of women employed in transport and storage	ge (2023)	3.5%
<b>₽</b>	Share of transport and storage jobs in workforce	(2023)	4.3%





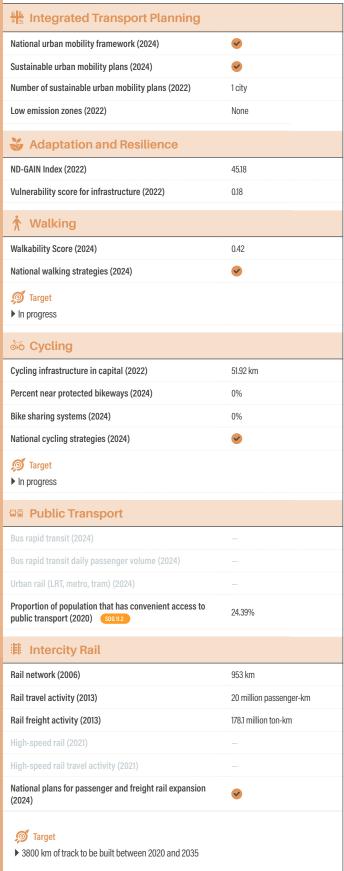


COUNTRY FACT SHEET | GHANA



## **Policy Areas: Indicators and Targets**





Road Transport	
Total road vehicles in use per 1,000 people (2020)	0.0
Road vehicle fleet growth (from 2015 to 2020)	_
Rural Access Index (2019) SDG 9.1	93.9 RAI PST
Diesel prices (2022)	1.25 USD per litre
Gasoline prices (2022)	0.96USD per litre
→ Aviation	
Air passengers carried (2021)	0.6 million people
Air freight activity (2021)	
Carbon-accredited airports (2023)	
of which carbon neutral:	
Shipping	
Logistics Performance Index (2023)	2.5
Liner shipping connectivity index (Q4 2024)	37.2
Container port traffic (2020)	1050 696.0 TEU
Transport Energy Sources	
Biofuel blend overall mandate (2023)	_
Biofuel blend biodiesel mandate (2023)	
Biofuel blend ethanol mandate (2023)	
Carbon intensity of electricity (2023)	452.86 gCO₂/kWh
Renewable energy (biofuels and electricity) share in transport (2022) SDG 72.1	0.03% of total transport energy consumption
Biofuels (2022)	
Electricity (2022)	0.03% of total transport energy consumption
Targeted renewable power share	10%
various Vehicle Technologies	
Emission standards for LDVs (2024)	Euro 4 and above
CO2 emissions performance for passenger cars (2024)	
Targeted CO <sub>2</sub> emissions performance (2024)	No target set
Regulatory environment ranking on used vehicles (2024)	Good
Electric vehicles stock for passenger cars (2023)	
Share of electric vehicles in car sales (2023)	
ICE phase-out targets	×
Electric vehicles stock for vans (2023)	
Electric vehicles stock for trucks (2023)	

This fact sheet is part of the SLOCAT Transport, Climate and Sustainability Global Status Report –  $4^{\text{th}}$  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 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**.

TeU Inverty-lock Equivalent Unit
UNEP United Mations Environment Programme
UNFCC United Nations Framework Convention on
Climate Change
Voluntary national review of the
Sustainable Developiment Goals
WLTP
Worldwide harmonised light vehicles test









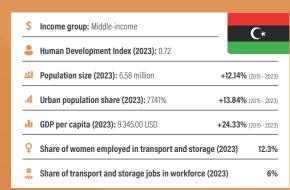




# <u>Libya</u>

In Libya, data on passenger and freight transport activity is very limited. However data on the modal split for Tripoli indicates heavy reliance on private road transport, with automobiles making up 87.4% of passenger travel. This vehicle dominance is accompanied by a high number of road traffic fatalities (34 deaths per 100,000 people) which cost the country 9.8% of GDP in 2021. Libya's transport GHG emissions reduced by 0.54% between 2022 and 2023, but the sector still represents the third-largest source of national GHG emissions, contributing 19.68% of total emissions in 2023, and the value of per capita emissions is 10 times the regional average, and almost three times the global average.

Transport contributed 3.5% to Libya's air pollution in 2019, and the country had the second highest carbon intensity among the electricity grids in Africa. Information on the countries transport decarbonisation strategies and specific climate mitigation targets is also very limited. Libya's 2024 VNR highlights transport, but without any transport linkages to the SDGs. The regulatory environment ranking on used vehicles is 'Very Weak', and there are minimal investments in sustainable transport infrastructure, including public transport and cycling. Convenient access to public transport is very limited (7.24%).









COUNTRY FACT SHEET | LIBYA



## Policy Areas: Indicators and Targets



Integrated Transport Planning	
National urban mobility framework (2024)	×
Sustainable urban mobility plans (2024)	×
Number of sustainable urban mobility plans (2022)	×
Low emission zones (2022)	×
★ Adaptation and Resilience	
ND-GAIN Index (2022)	43.03
Vulnerability score for infrastructure (2022)	0.19
<b>∱</b> Walking	
Walkability Score (2024)	0.57
National walking strategies (2024)	
₩ Cycling	
Cycling infrastructure in capital (2022)	_
Percent near protected bikeways (2024)	0%
Bike sharing systems (2024)	0
National cycling strategies (2024)	Not available, only subnational Tripoli Green Belt Mobility Master Plan
<b>₽₽</b> 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)  SDG 11.2	7.24%
Intercity Rail	
Rail network (2021)	_
Rail travel activity (2020)	
Rail freight activity (2019)	
High-speed rail (2021)	
High-speed rail travel activity (2021)	
National plans for passenger and freight rail expansion (2024)	
Target  ▶ No operational rail network, but individual projects envision (e.g. rail link between Egypt and Libya)	oned

Total road vehicles in use per 1,000 people (2020)	465.7
Road vehicle fleet growth (from 2015 to 2020)	23.95%
Rural Access Index (2019) SDG 9.1	57.6 RAI PST
Diesel prices (2022)	0.29 USD per litre
Gasoline prices (2022)	0.25 USD per litre
→ Aviation	
Air passengers carried (2021)	1.0 million people
Air freight activity (2021)	13.6 million ton-km
Carbon-accredited airports (2023)	
of which carbon neutral:	
Shipping	
Logistics Performance Index (2023)	1.9
Liner shipping connectivity index (Q4 2024)	12.4
Container port traffic (2020)	
Transport Energy Sources	
Biofuel blend overall mandate (2023)	_
Biofuel blend biodiesel mandate (2023)	
Biofuel blend ethanol mandate (2023)	
Carbon intensity of electricity (2023)	830.53 gCO <sub>2</sub> /kWh
Renewable energy (biofuels and electricity) share in transport (2022)	0.0% of total transport energy consumption
Biofuels (2022)	
Electricity (2022)	
Targeted renewable power share	
<b>ō</b> Vehicle Technologies	
Emission standards for LDVs (2024)	Below Euro 3
CO2 emissions performance for passenger cars (2024)	
Targeted CO <sub>2</sub> emissions performance (2024)	No target set
Regulatory environment ranking on used vehicles (2024)	Very Weak
Electric vehicles stock for passenger cars (2023)	
Share of electric vehicles in car sales (2023)	
ICE phase-out targets	×
Electric vehicles stock for vans (2023)	
Electric vehicles stock for trucks (2023)	

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. 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 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.

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

TEU Twenty-foot Equivalent Unit UNEP United Nations Environment Programme UNIFCCC United Nations Framework Convention on Climate Change VMR Voluntary national review of the Sustainable Developiment Goals WIIP Worldwide harmonised light vehicles test procedure













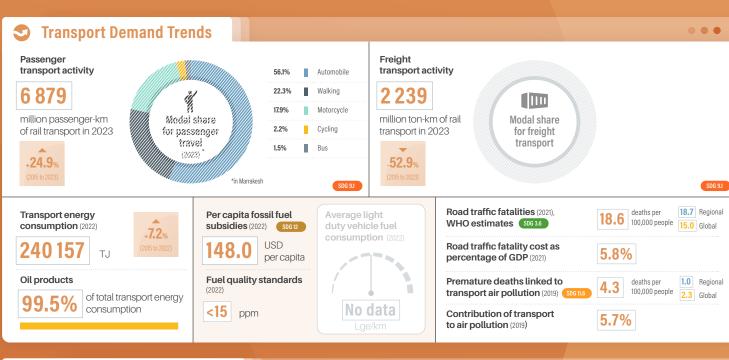
## Morocco

In Morocco, the transport sector is the third-largest contributor to GHG emissions, accounting for 16.59% of national emissions in 2023. Transport emissions have grown by 6.2% from 2015 to 2023. Freight transport activity showed decreasing trends between 2015 and 2023, as the main focus was on passenger rail transport. Road transport remains dominant in urban transport, with private cars comprising 56.1% of passenger travel in Marrakesh. This is reflected in the high number of road traffic fatalities (18.6 deaths per 100,000 people) which cost the country 5.8% of GDP in 2021.

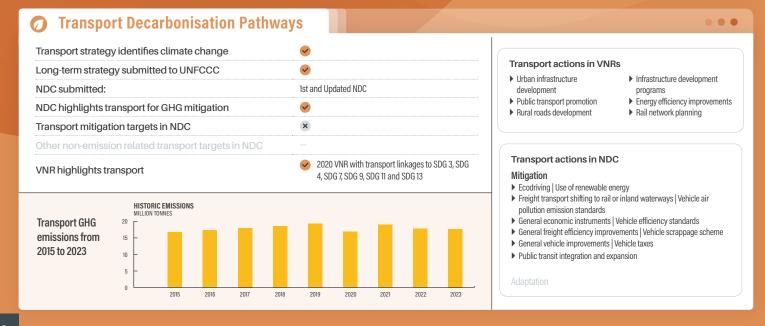
Additionally, transport contributed 5.7% to air pollution in 2019.

Morocco has made some progress on sustainable, lowcarbon transport through initiatives such as promoting rail and public transport, as well as establishing energy efficiency standards. However, the country faces challenges in adopting renewable energy in transport and lacks specific transport mitigation targets in their Updated NDC.







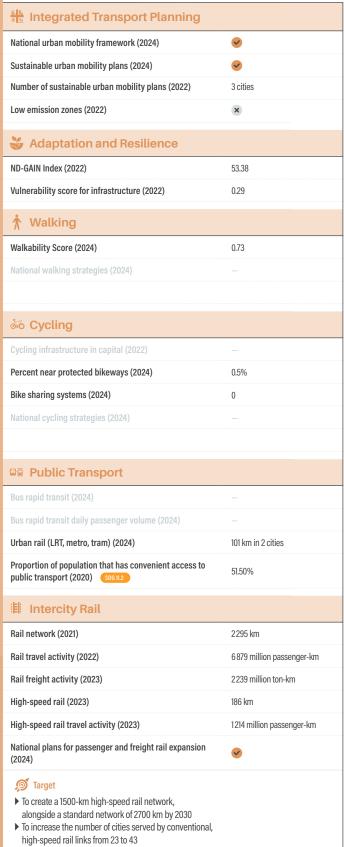


COUNTRY FACT SHEET | MOROCCO



## **Policy Areas: Indicators and Targets**





Total road vehicles in use per 1,000 people (2020)	113.2
Road vehicle fleet growth (from 2015 to 2020)	19.77%
Rural Access Index (2019) SDG 9.1	80.3 RAI PST
Diesel prices (2022)	1.05 USD per litre
Gasoline prices (2022)	1.46 USD per litre
<b>→</b> Aviation	
Air passengers carried (2021)	4.7 million people
Air freight activity (2021)	58.9 million ton-km
Carbon-accredited airports (2023)	7 airports
of which carbon neutral:	none
<b>Shipping</b>	
Logistics Performance Index (2023)	_
Liner shipping connectivity index (Q4 2024)	69.3
Container port traffic (2020)	6 980 958.0 TEU
Transport Energy Sources	
Biofuel blend overall mandate (2023)	_
Biofuel blend biodiesel mandate (2023)	
Biofuel blend ethanol mandate (2023)	
Carbon intensity of electricity (2023)	616.82 gCO₂/kWh
Renewable energy (biofuels and electricity) share in transport (2022) (5067.21)	0.5% of total transport energy consumption
Biofuels (2022)	
Electricity (2022)	0.5% of total transport energy consumption
Targeted renewable power share	
vehicle Technologies	
Emission standards for LDVs (2024)	Euro 4 and above
CO2 emissions performance for passenger cars (2024)	
Targeted CO <sub>2</sub> emissions performance (2024)	No target set
Regulatory environment ranking on used vehicles (2024)	Very Good
Electric vehicles stock for passenger cars (2023)	
Share of electric vehicles in car sales (2023)	
CE phase-out targets	×
Electric vehicles stock for vans (2023)	
Electric vehicles stock for trucks (2023)	

This fact sheet is part of the SLOCAT Transport, Climate and Sustainability Global Status Report –  $4^{\text{th}}$  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 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**.

TEU Inverty-hot Equivalent Unit
UNEP United Nations Environment Programme
UNFCC United Nations Framework Convention on
Climate Change
Voluntary national review of the
Sustainable Developiment Goals
WLTP
Worldwide harmonised light vehicles test











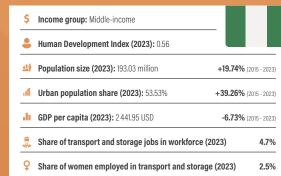


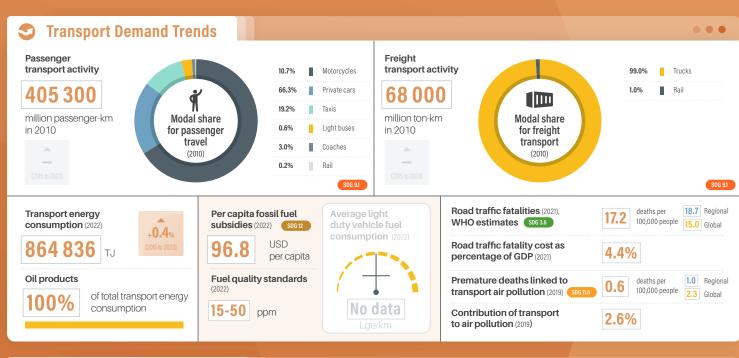


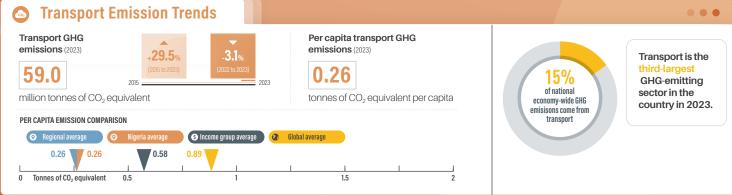
# <u>Nigeria</u>

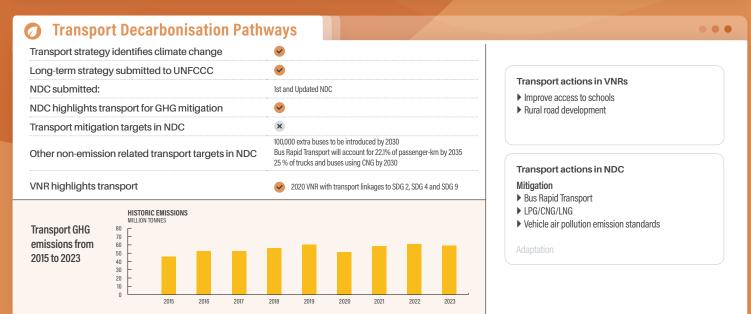
In Nigeria, transport demand is dominated by road-based travel, with private cars and motorcycles accounting for the largest share of passenger transport. The country's transport sector is the third-largest contributor to national GHG emissions, contributing 15.3% of national GHG emissions in 2023, and transport emissions have increased by almost one third from 2015 to 2023 (29.5%). Nigeria also has a very low level of access to public transport, with only 13.8% of the population having convenient access.

Efforts to address emissions include the promotion of Bus Rapid Transit (BRT) systems and cleaner vehicle technologies, such as CNG adoption. However, there is limited progress in renewable energy integration for transport. Nigeria's Nationally Determined Contributions (NDC) set targets for public transport expansion and improved vehicle emission standards. Nigeria is also in the process of developing a national walking and cycling strategy, and has plans to expand and modernise the railway transport network.







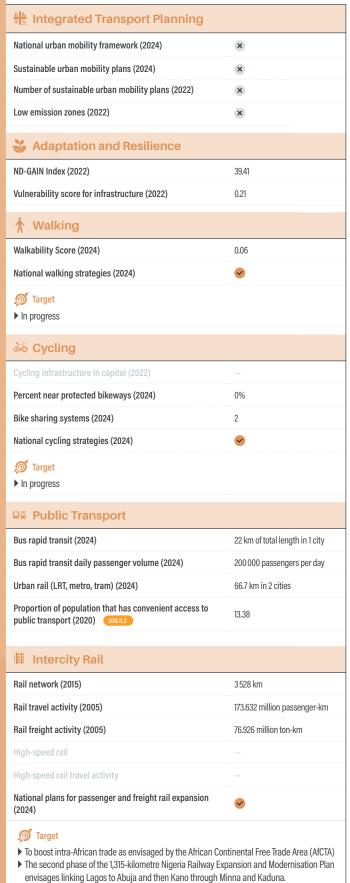


COUNTRY FACT SHEET | NIGERIA



## **Policy Areas: Indicators and Targets**





Road Transport	
Total road vehicles in use per 1,000 people (2020)	54.8
Road vehicle fleet growth (from 2015 to 2020)	27.63%
Rural Access Index (2019) SDG 9.1	85 RAI PST
Diesel prices (2022)	0.70 USD per litre
Gasoline prices (2022)	0.66 USD per litre
<b>→</b> Aviation	
Air passengers carried (2021)	4.5 million people
Air freight activity (2021)	1.6 million ton-km
Carbon-accredited airports (2023)	1
of which carbon neutral:	none
Shipping	
Logistics Performance Index (2023)	2.6
Liner shipping connectivity index (Q4 2024)	20.8
Container port traffic (2020)	1528 520.0 TEU
Transport Energy Sources	
Biofuel blend overall mandate (2023)	_
Biofuel blend biodiesel mandate (2023)	20.0%
Biofuel blend ethanol mandate (2023)	10.0%
Carbon intensity of electricity (2023)	508.82 gCO <sub>2</sub> /kWh
Renewable energy (biofuels and electricity) share in transport (2022) socret	0.0% of total transport energy consumption
Biofuels (2022)	
Electricity (2022)	
Targeted renewable power share	
variation Vehicle Technologies	
Emission standards for LDVs (2024)	Euro 4 and above
CO2 emissions performance for passenger cars (2024)	
Targeted CO <sub>2</sub> emissions performance (2024)	No target set
Regulatory environment ranking on used vehicles (2024)	Good
Electric vehicles stock for passenger cars (2023)	
Share of electric vehicles in car sales (2023)	
ICE phase-out targets	×
Electric vehicles stock for vans (2023)	
Electric vehicles stock for trucks (2023)	

This fact sheet is part of the SLOCAT Transport, Climate and Sustainability Global Status Report –  $4^{\text{th}}$  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 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**.

#### List of acronyms

TeU Inverty-lock Equivalent Unit
UNEP United Mations Environment Programme
UNFCC United Nations Framework Convention on
Climate Change
Voluntary national review of the
Sustainable Developiment Goals
WLTP
Worldwide harmonised light vehicles test











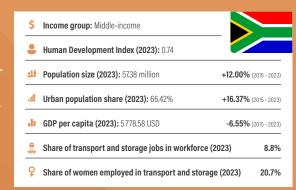


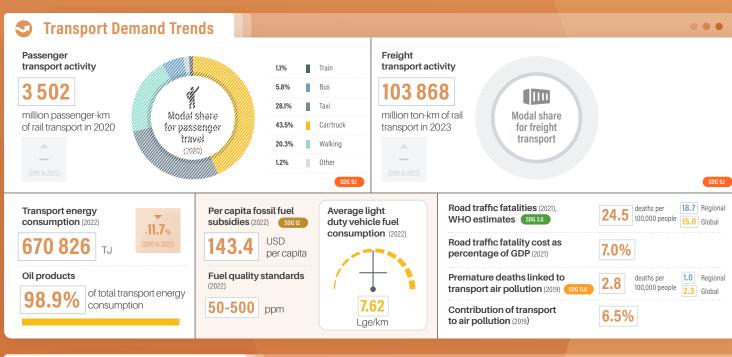


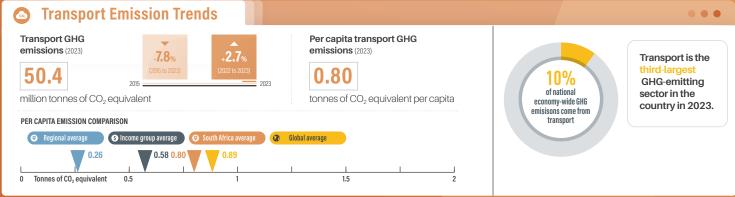
# **South Africa**

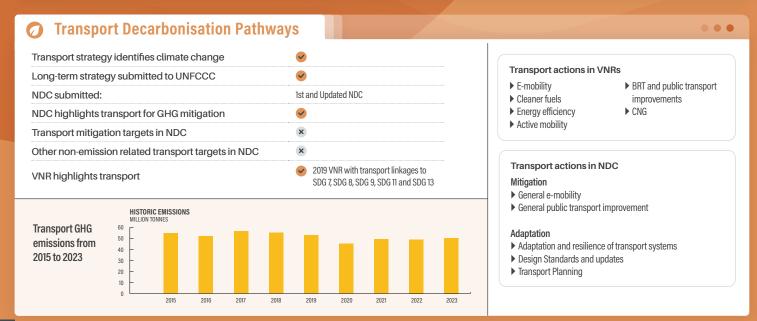
In South Africa, transport demand is primarily road-based, with cars and taxis making up the largest share of passenger travel. Passenger travel data indicates high percentage of informal transport and walking modes. Despite a slight reduction in transport emissions since 2015 (7.7%), the transport sector is the third-largest emitter of GHGs, accounting for 9.6% of national emissions in 2023. South Africa has a relatively high number of road traffic fatalities, which cost the country 7% of GDP in 2021. South Africa has the fourth-highest carbon intense electricity grid in Africa, and very low renewable energy consumption in transport.

Policies focus on e-mobility, cleaner fuels, and public transport improvements, including Bus Rapid Transit (BRT) and rail expansion. However, renewable energy accounts for only 1.1% of transport energy consumption. While electric vehicle adoption is growing, the lack of clear emission performance targets and ICE phase-out plans poses challenges for decarbonisation.











## Policy Areas: Indicators and Targets



Integrated Transport Planning		
National urban mobility framework (2024)	×	
Sustainable urban mobility plans (2024)	×	
Number of sustainable urban mobility plans (2022)	×	
Low emission zones (2022)	×	
★ Adaptation and Resilience		
ND-GAIN Index (2022)	48.57	
Vulnerability score for infrastructure (2022)	0.19	
∱ Walking		
Walkability Score (2024)	0.22	
National walking strategies (2024)	<b>⊗</b>	
്ര Cycling		
Cycling infrastructure in capital (2022)	415 km (in Cape Town)	
Percent near protected bikeways (2024)	0.7%	
Bike sharing systems (2024)	1	
National cycling strategies (2024)	<b>⊗</b>	
ଇଲ୍ଲ Public Transport		
Bus rapid transit (2024)	88 km ot total length in 3 cities	
Bus rapid transit daily passenger volume (2024)	111 578 passengers per day	
Urban rail (LRT, metro, tram) (2024)	889 km in 4 cities	
Proportion of population that has convenient access to public transport (2020)	32.56%	
Intercity Rail		
Rail network (2021)	20 953 km	
Rail travel activity (2020)	3 501.96 million passenger-km	
Rail freight activity (2008)	103 868 million ton-km	
High-speed rail (2021)		
High-speed rail travel activity (2021)		
National plans for passenger and freight rail expansion (2024)	•	
Target  ➤ Development of the Transnet Road-to-Rail Strategy  ➤ To rebalance the road freight-rail freight split in an attempt to create a more appropriate market share  ➤ To reduce the number of heavy trucks on the roads and decrease overloading on the road network		

Road Transport	
Total road vehicles in use per 1,000 people (2020)	172.1
Road vehicle fleet growth (from 2015 to 2020)	7.69%
Rural Access Index (2019) SDG 91	72.2 RAI PST
Diesel prices (2022)	1.10 USD per litre
Gasoline prices (2022)	1.13 USD per litre
→ Aviation	
Air passengers carried (2021)	9.3 million people
Air freight activity (2021)	15.1 million ton-km
Carbon-accredited airports (2023)	5
of which carbon neutral:	none
Shipping	
Logistics Performance Index (2023)	3.7
Liner shipping connectivity index (Q4 2024)	39.1
Container port traffic (2020)	4 029 000.0 TEU
Transport Energy Sources	
Biofuel blend overall mandate (2023)	
Biofuel blend biodiesel mandate (2023)	5.0%
Biofuel blend ethanol mandate (2023)	2.0%
Carbon intensity of electricity (2023)	709.69 gCO <sub>2</sub> /kWh
Renewable energy (biofuels and electricity) share in transport (2022) S06721	1.1% of total transport energy consumption
Biofuels (2022)	
Electricity (2022)	1.1% of total transport energy consumption
Targeted renewable power share	13% Minimum rollout of renewable energy of 3 GW per annum, ramping up to 5 GW per annum by 2030
Vehicle Technologies	
Emission standards for LDVs (2024)	Below Euro 3
CO2 emissions performance for passenger cars (2024)	
Targeted CO <sub>2</sub> emissions performance (2024)	No target set
Regulatory environment ranking on used vehicles (2024)	Banned
Electric vehicles stock for passenger cars (2023)	3503 vehicles
Share of electric vehicles in car sales (2023)	0.29%
ICE phase-out targets	×
Electric vehicles stock for vans (2023)	
Electric vehicles stock for trucks (2023)	

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. 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 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.

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

TEU Twenty-foot Equivalent Unit UNEP United Nations Environment Programme UNIFCCC United Nations Framework Convention on Climate Change VMR Voluntary national review of the Sustainable Developiment Goals WIIP Worldwide harmonised light vehicles test procedure









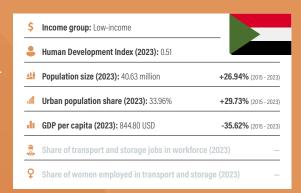




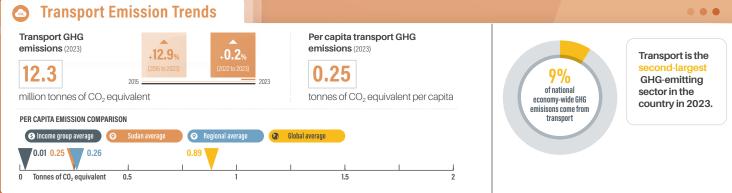
# Sudan

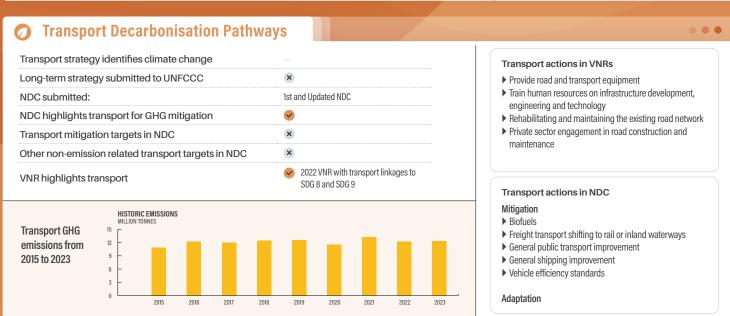
In **Sudan**, transport demand is largely driven by automobile use. According to the available data, automobiles account for over 90% of passenger travel. The transport sector is the second-largest source of GHG emissions, contributing 8.9% of the national total in 2023, with an increase of 12.9% in emissions since 2015. Transport contributes 2.5% to air pollution.

Transport policies focus on improving freight through rail expansion and enhancing public transport. However, the country faces significant challenges, with no national strategies for sustainable urban mobility or emission reduction targets. The reliance on oil products for 100% of transport energy consumption highlights the need for stronger efforts in decarbonisation and renewable energy integration.









COUNTRY FACT SHEET | SUDAN



## Policy Areas: Indicators and Targets



Integrated Transport Planning	
National urban mobility framework (2024)	×
Sustainable urban mobility plans (2024)	<b>(X</b> )
Number of sustainable urban mobility plans (2022)	×
Low emission zones (2022)	×
★ Adaptation and Resilience	
ND-GAIN Index (2022)	32.72
Vulnerability score for infrastructure (2022)	0.27
<b>†</b> Walking	
Walkability Score (2024)	0.29
National walking strategies (2024)	
₩ Cycling	
Cycling infrastructure in capital (2022)	_
Percent near protected bikeways (2024)	0%
Bike sharing systems (2024)	0
National cycling strategies (2024)	
₽₽ 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) SDG 11.2	12.97%
Intercity Rail	
Rail network (2020)	2747 km
Rail travel activity (2014)	81.5 million passenger-km
Rail freight activity (2013)	33.9 million ton-km
High-speed rail	
High-speed rail travel activity	
National plans for passenger and freight rail expansion (2024)	•
Target  ▶ To enhance the competitive position of the railway by expanding and improving services  ▶ To construct railway links between Sudan and the neighbouring countries	

Total road vehicles in use per 1,000 people (2020)	0.0
Road vehicle fleet growth (from 2015 to 2020)	
Rural Access Index (2019) SDG 9.1	24.3 RAI PST
Diesel prices (2022)	0.29 USD per litre
Gasoline prices (2022)	0.29 USD per litre
★ Aviation	
Air passengers carried (2021)	1.4 million people
Air freight activity (2021)	25.8 million ton-km
Carbon-accredited airports (2023)	
of which carbon neutral:	
â Shipping	
Logistics Performance Index (2023)	2.4
Liner shipping connectivity index (Q4 2024)	8.4
Container port traffic (2020)	493 002.3 TEU
Transport Energy Sources	
Biofuel blend overall mandate (2023)	_
Biofuel blend biodiesel mandate (2023)	
Biofuel blend ethanol mandate (2023)	5.0%
Carbon intensity of electricity (2023)	214.33 gCO <sub>2</sub> /kWh
Renewable energy (biofuels and electricity) share in transport (2022) SDG 7.21	0.0% of total transport energy consumption
Biofuels (2022)	
Electricity (2022)	
Targeted renewable power share	
<b>ŏ</b> ∈ Vehicle Technologies	
Emission standards for LDVs (2024)	Below Euro 3
CO2 emissions performance for passenger cars (2024)	
Targeted CO <sub>2</sub> emissions performance (2024)	No target set
Regulatory environment ranking on used vehicles (2024)	Banned
Electric vehicles stock for passenger cars (2023)	
Share of electric vehicles in car sales (2023)	
ICE phase-out targets	×
Electric vehicles stock for vans (2023)	
Electric vehicles stock for trucks (2023)	

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. 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 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.

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







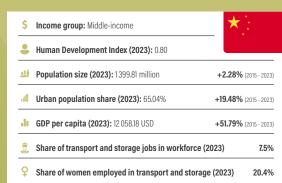


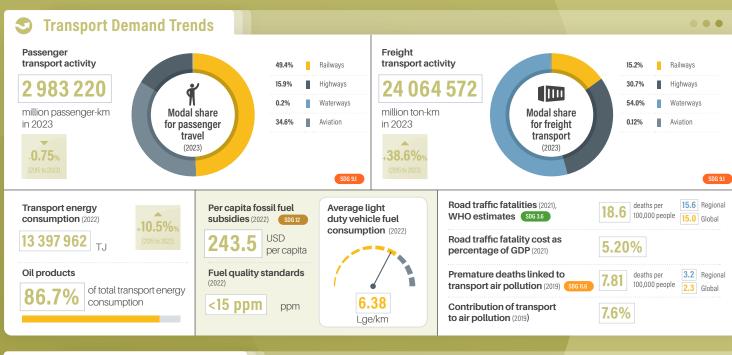


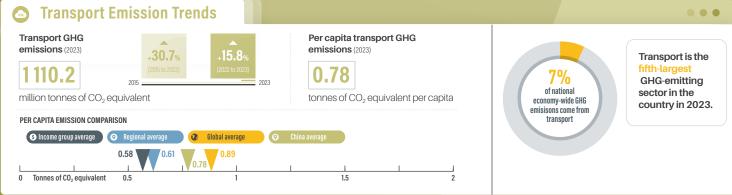
# China

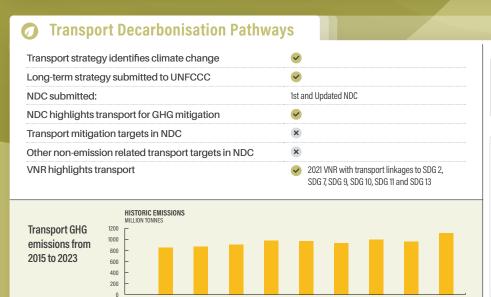
China has witnessed significant growth in freight transport demand, with freight activity increasing by 38.6% from 2015 to 2023. On the other hand, passenger transport activity declined slightly by 0.75%. Rail dominates passenger transport at 49.4%, while waterways lead in freight (64%). Transport GHG 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
- ► Freight 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

.

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

COUNTRY FACT SHEET | CHINA

**Road Transport** 

Rural Access Index (2019) SDG 9.1

Total road vehicles in use per 1,000 people (2020)

Road vehicle fleet growth (from 2015 to 2020)



## Policy Areas: Indicators and Targets



223.1

95,30%

71.4 RAI PST



*	Adaptation	and Resilience	
---	------------	----------------	--

ND-GAIN Index (2022)	60.18
Vulnerability score for infrastructure (2022)	0.17

## \* Walking

<i>n</i>	
Walkability Score (2024)	0.20
National walking strategies (2024)	✓ Walking and cycling combined



▶ Improve urban transport facilities for cyclists and pedestrians, promote cycling

## **& Cycling**

3200 km
4%
502
✓ Walking and cycling combined



▶ Improve urban transport facilities for cyclists and pedestrians, promote cycling

## **₽** Public Transport

Bus rapid transit (2024)	672 km of total length in 20 cities
Bus rapid transit daily passenger volume (2024)	4375250 passengers per day
Urban rail (LRT, metro, tram) (2024)	11,000 km in 47 cities
Proportion of population that has convenient access to public transport (2020) SOG 11.2	52.96%

## Intercity Rail

Rail network (2021)	109767 km
Rail travel activity (2021)	946 499 million passenger-km
Rail freight activity (2019)	3018200 million ton-km
High-speed rail (2022)	42233 km
High-speed rail travel activity (2023)	922 633 million passenger-km
National plans for passenger and freight rail expansion (2024)	•



- ▶ 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

GDP	Gross-domestic product
HDV	Heavy-duty vehicle
ICE	Internal combustion engine
kWh	Kilowatt-hour

TEU Twenty-foot Equivalent Unit UNEP United Nations Environment Programme United Nations Environment Programme United Nations Framework Convention on Climate Change VNR Voluntary national review of the Sustainable Developiment Goals WLTP Worldwide harmonised light vehicles test procedure

procedure

Regulatory environment ranking on used vehicles (2024) Electric vehicles stock for passenger cars (2024)

Share of electric vehicles in car sales (2024)

Electric vehicles stock for vans (2024)

Electric vehicles stock for trucks (2024)

ICE phase-out targets

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
<b>&amp;</b> Shipping	
Logistics Performance Index (2023)	3.7
Liner shipping connectivity index (Q4 2024)	171.2
Container port traffic (2020)	245 103 781.0 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 <sub>2</sub> /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 <sub>2</sub> emissions performance for passenger cars (2024)	89 g CO <sub>2</sub> /km in 2023
Targeted CO <sub>2</sub> emissions performance (2024)	59 g CO <sub>2</sub> /km by 2030

This fact sheet is part of the SLOCAT Transport, Climate and Sustainability Global Status Report –  $4^{\text{th}}$  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 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**.



Primary, secondary or tertiary roads





23 million vehicles

48%

X

1.1 million

360 000 vehicles









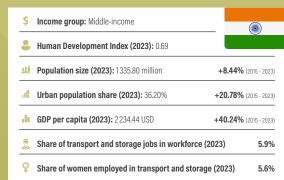




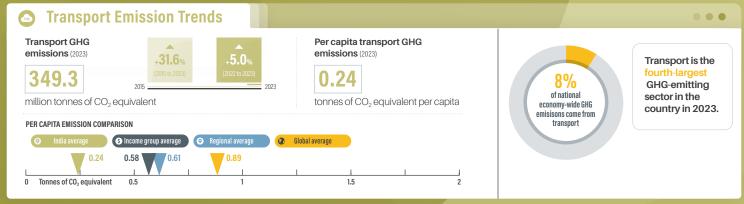
# India

India's transport sector has experienced rapid growth, with passenger travel increasing by 58% and freight activity by 35% from 2015 to 2019. Roads dominate both passenger (96%) and freight (80%) transport. Women only represented 1.5% of the workforce in transport and storage in India in 2023. Transport emissions have risen by 32% since 2015, making it the fourth-largest emitting sector. Renewable energy, including biofuels and electricity, represented only 4.7% of India's total transport energy consumption, whereas the carbon intensity of its electricity remains very high, at 713 gCO\_/kWh in 2023. Beyond climate impacts, transport accounted for 6.7% of national air pollutant emissions in 2019. India is home to some of the world's most polluted cities, whereby transport induced air pollution caused 4.6 premature deaths per 100,000 people in 2019. Road traffic injury is another

leading cause of death, claiming 15.4 lives per 100,000 people and accounting for 4.2% of India's GDP in 2021. In 2020, only 34.18% of the Indian population had convenient access to public transport. On the other hand, a moderately high percentage (69.2%) of India's rural population lived within 2 kilometers of an all season road in 2019. Policies focus on intercity and urban rail expansion, and electrification, with 2% of new cars being electric. Despite low per capita transport emissions (0.24 tonnes), fossil fuel subsidies (89.47 USD per capita) and high road traffic fatalities remain challenges towards achieving sustainable, low carbon transport. The country aims to enhance rail freight, expanding public transport, and increasing renewable energy use to drive sustainable mobility. Sustainablity plans point towards national urban transport policies with the intention to increase access to rail-based public transport.









COUNTRY FACT SHEET | INDIA



## Policy Areas: Indicators and Targets



Integrated Transport Planning	
National urban mobility framework (2024)	✓
Sustainable urban mobility plans (2024)	✓
Number of sustainable urban mobility plans (2022)	3 cities
Low emission zones (2022)	1 city
★ Adaptation and Resilience	
ND-GAIN Index (2022)	47.06
Vulnerability score for infrastructure (2022)	0.17
∱ Walking	
Walkability Score (2024)	0.35
National walking strategies (2024)	<b>⋖</b>
ేస్ Cycling	
Cycling infrastructure in capital (2022)	36 km
Percent near protected bikeways (2024)	0%
Bike sharing systems (2024)	38
National cycling strategies (2024)	✓
ଗଳ Public Transport	
Bus rapid transit (2024)	228 km of total length in 9 cities
Bus rapid transit daily passenger volume (2024)	497 411 passengers per day
Urban rail (LRT, metro, tram) (2024)	950 km in 16 cities
Proportion of population that has convenient access to public transport (2020)  SDG 11.2	34.18%
<b>III Intercity Rail</b>	
Rail network (2021)	68102.73 km
Rail travel activity (2021)	231126 million passenger-km
Rail freight activity (2021)	719762 million ton-km
High-speed rail	
High-speed rail travel activity	
National plans for passenger and freight rail expansion (2024)	•
<ul> <li>▼ Target</li> <li>▶ To develop capacity, infrastructure and enhance rail freight share ahead of the demand.</li> <li>Develop capacity by 2030 that will cater to growing demand up to 2050</li> </ul>	

<b>li</b> Road Transport	
Total road vehicles in use per 1,000 people (2020)	32.7
Road vehicle fleet growth (from 2015 to 2020)	58.31%
Rural Access Index (2019) SDG 9.1	69.2 RAI PST
Diesel prices (2022)	0.92 USD per litre
Gasoline prices (2022)	1.22 USD per litre
→ Aviation	
Air passengers carried (2021)	84.0 million people
Air freight activity (2021)	907.9 million ton-km
Carbon-accredited airports (2023)	30 airports
of which carbon neutral:	4 airports
â Shipping	
Logistics Performance Index (2023)	3.4
Liner shipping connectivity index (Q4 2024)	58.9
Container port traffic (2020)	16 285 806.0 TEU
Transport Energy Sources	
Biofuel blend overall mandate (2023)	-
Biofuel blend biodiesel mandate (2023)	0.1%
Biofuel blend ethanol mandate (2023)	10.0%
Carbon intensity of electricity (2023)	713.01 gCO <sub>2</sub> /kWh
Renewable energy (biofuels and electricity) share in transport (2022) SDG721	4.7% of total transport energy consumption
Biofuels (2022)	2.8% of total transport energy consumption
Electricity (2022)	1.9% of total transport energy consumption
Targeted renewable power share	64%
vă Vehicle Technologies	
Emission standards for LDVs (2024)	Euro 4 and above
CO <sub>2</sub> emissions performance for passenger cars (2024)	111 g CO <sub>2</sub> /km in 2023
Targeted CO <sub>2</sub> emissions performance (2024)	54 g CO₂/km by 2032
Regulatory environment ranking on used vehicles (2024)	Banned
Electric vehicles stock for passenger cars (2024)	240 000 vehicles
Share of electric vehicles in car sales (2024)	2.1 %
ICE phase-out targets	×
Electric vehicles stock for vans (2024)	13 000 vehicles
Electric vehicles stock for trucks (2023)	

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. 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 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: Orive Electric

List of acronyms
GDP Gross-domestic product
HDW Heavy-duty-vehicle
ICE Internal combustion engine
KWh Kilowett-hour
LDW Light-duty-vehicle
LRT Light-rail transit
NDC Nationally determined contribution
PST Primary, secondary or tertiary roads

TEU Iventy-foot Equivalent Unit UNEP United Nations Environment Programme United Nations Environment Programme United Nations Framework Comention or United Nations Framework Convention or Williamst Change Valuntary national review of the Sustainable Developiment Goals WILTP Worldwide harmonised light vehicles test procedure

procedure





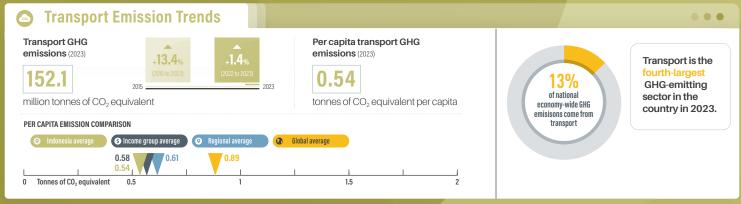
# Indonesia

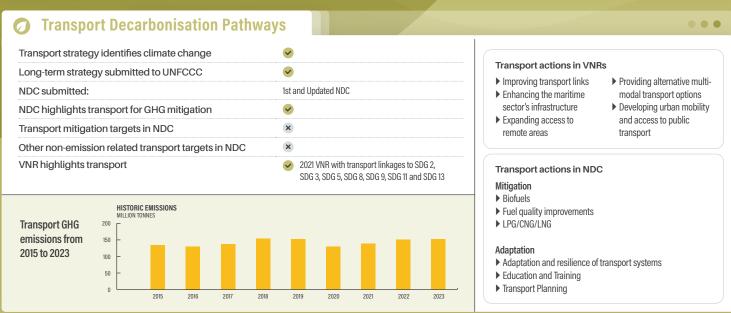
Indonesia's transport sector has seen significant growth in demand, with passenger travel increasing by 12% (2015-2022) and freight transport by 38.5% (2015-2022). Transport-related emissions rose by 13.45% between 2015 and 2023, making the sector the fourth-largest emissions contributor to national GHG emissions. Oil products dominate energy use (87%), with biofuels and electricity at 12.9% in 2022. The carbon intensity of Indonesia's electricity remains very high, at 682.4 gCO<sub>3</sub>/kWh in 2023. Beyond climate impacts, transport accounted for 12.4% of national air pollutant emissions in 2019. Transport-induced air pollution, in turn, caused 4.99 premature deaths per 100,000 people in Indonesia in 2019. Road traffic injury is another leading cause of death, claiming 11.3 lives per

100,000 people and accounting for 3.2% of Indonesia's GDP in 2021. In 2020, only 30.7% of the Indonesian population had convenient access to public transport. On the other hand, a moderately high percentage (71.6%) of Indonesia's rural population lived within 2 kilometers of an all-season road in 2019. The country has set strategies for urban mobility, rail expansion, and fuel quality improvements, while the updated NDC recognises transport for mitigation, and includes both transport mitigation and adaptation actions. Despite policies promoting public transport, walking, and cycling, Indonesia faces challenges in shifting towards low-emission transport, given significant fossil fuel subsidies (303.80 USD per capita) and limited electric vehicle uptake.









COUNTRY FACT SHEET | INDONESIA



## Policy Areas: Indicators and Targets

Integrated Transport Planning		
National urban mobility framework (2024)	•	
Sustainable urban mobility plans (2024)	•	
Number of sustainable urban mobility plans (2024)	1 city	
Low emission zones (2024)	2 cities	

😽 Adaptation and Resilienc	е
----------------------------	---

ND-GAIN Index (2022)	48.55
Vulnerability score for infrastructure (2022)	0.20

## **↑** Walking

Walkability Score (2024)	0.40
National walking strategies (2024)	Walking and cycling combined

### **M** Target

▶ Create a safe, comfortable, inclusive, and comprehensive walking and cycling space which supports public transport usage.

## **%** Cycling

Cycling infrastructure in capital (2022)	365 km of bicycle lanes
Percent near protected bikeways (2024)	0%
Bike sharing systems (2024)	5
National cycling strategies (2024)	Walking and cycling combined



▶ Create a safe, comfortable, inclusive, and comprehensive walking and cycling space which supports public transport usage.

### **₽** Public Transport

Bus rapid transit (2024)	251 km of total length in 1 city
Bus rapid transit daily passenger volume (2024)	46 467 passengers per day
Urban rail (LRT, metro, tram) (2024)	55 km in 2 cities
Proportion of population that has convenient access to public transport (2020) SDG11.2	30.70%

## Intercity Rail

Rail network (2019)	5483 km
Rail travel activity (2019)	29 066 million passenger-km
Rail freight activity (2019)	15 573 million ton-km
High-speed rail	_
High-speed rail travel activity	_
National plans for passenger and freight rail expansion (2024)	<b>✓</b>

 $\blacktriangleright$  10,524 km national railways in 2030 including 3,755 km urban railways Railway share to increase to 7-9% for passenger and 11-13% for freight transport

This fact sheet is part of the SLOCAT Transport, Climate and Sustainability Global Status Report –  $4^{\text{th}}$  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 reflect 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.

GDP	Gross-domestic product
HDV	Heavy-duty vehicle
ICE	Internal combustion engine
kWh	Kilowatt-hour

Light-duty vehicle
Light-rail transit
Nationally determined contribution
Primary, secondary or tertiary roads

TEU Twenty-foot Equivalent Unit UNEP United Nations Environment Programme United Nations Environment Programme United Nations Framework Convention on Climate Change VNR Voluntary national review of the Sustainable Developiment Goals WLTP Worldwide harmonised light vehicles test procedure

procedure

## **Road Transport**

Total road vehicles in use per 1,000 people (2020)	77.1
Road vehicle fleet growth (from 2015 to 2020)	26.84%
Rural Access Index (2019) SDG 9.1	71.6 RAI PST
Diesel prices (2022)	0.46 USD per litre
Gasoline prices (2022)	0.62 USD per litre

#### Aviation

33.5 million people
772.9 million ton-km

## Shipping

Logistics Performance Index (2023)	3
Liner shipping connectivity index (Q4 2024)	32.7
Container port traffic (2020)	14 025 449.0 TEU

## Transport Energy Sources

ı	Biotuel blend overall mandate (2023)	
	Biofuel blend biodiesel mandate (2023)	35.0%
	Biofuel blend ethanol mandate (2023)	5.0%
	Carbon intensity of electricity (2023)	682.43 gCO <sub>2</sub> /kWh
	Renewable energy (biofuels and electricity) share in transport (2022)	12.9% of total transport energy consumption
	Biofuels (2022)	12.8% of total transport energy consumption
	Electricity (2022)	0.1% of total transport energy consumption
	Targeted renewable power share	

largeted reflewable power strate	
Vehicle Technologies	
Emission standards for LDVs (2024)	Euro 4 and above
CO2 emissions performance for passenger cars (2024)	
Targeted CO <sub>2</sub> emissions performance (2024)	No target set
Regulatory environment ranking on used vehicles (2024)	Banned
Electric vehicles stock for passenger cars (2024)	78 000 vehicles
Share of electric vehicles in car sales (2024)	7.3 %
ICE phase-out targets	×
Electric vehicles stock for vans (2024)	
Electric vehicles stock for trucks (2024)	1 vehicle

just one truck?













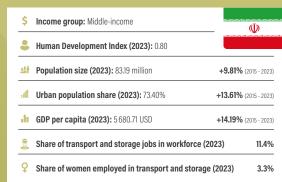


Supported by: Drive Electric

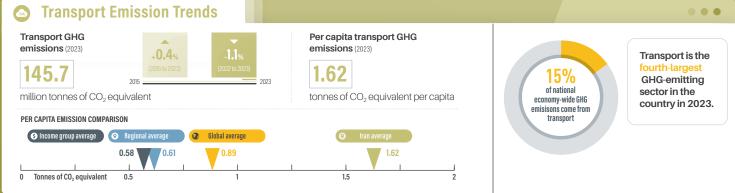
## Iran

**Iran's** transport sector was the fourth largest GHG-emitting sector in the country in 2023. Transport emissions have remained relatively stable since 2015, contributing 14.62% of national emissions, with per capita emissions nearly double the global average. While passenger rail activity has stagnated, freight rail has seen modest growth. Iran records 20.6 road traffic fatalities per 100,000 people. Renewable energy, including biofuels and electricity, represented a mere 0.1% of Iran's total transport energy consumption, whereas the carbon intensity of its electricity remains very high, at 641.7 gCO2/kWh in 2023. Beyond climate impacts, transport accounted for 11.1% of national air pollutant emissions in

2019. Transport-induced air pollution, in turn, caused 5.56 premature deaths per 100,000 people in Iran in 2019. Iran is also the country with the highest number of road traffic fatalities in Asia, with 20.6 deaths per 100,000 people, accounting for 6.80% of Iran's GDP in 2021. In 2020, 37.7% of Iran's population had convenient access to public transport, whereas no data is available for access to all-season roads in rural contexts. Despite having urban and intercity rail networks, policies for sustainable mobility are limited. Iran has not included transport in its NDC and lacks a national urban mobility framework. However, planned rail expansions aim to enhance freight capacity and efficiency.









COUNTRY FACT SHEET | IRAN



## Policy Areas: Indicators and Targets



illia Integrated Transport Planning		
National urban mobility framework (2024)	_	
Sustainable urban mobility plans (2024)		
Number of sustainable urban mobility plans (2022)		
Low emission zones (2022)		
Adaptation and Resilience		
ND-GAIN Index (2022)	50.56	
Vulnerability score for infrastructure (2022)	0.12	
<b>∱</b> Walking		
Walkability Score (2024)	0.57	
National walking strategies (2024)		
7 0 P		
Cycling infrastructure in capital (2022)	24km, 550 km of separated bikelanes planned to be constructed by 2024	
Percent near protected bikeways (2024)	1%	
Bike sharing systems (2024)	2	
National cycling strategies (2024)		
ଅନ୍ତି Public Transport		
Bus rapid transit (2024)	214 km of total length in 3 cities	
Bus rapid transit daily passenger volume (2024)	848 696 passengers per day	
Urban rail (LRT, metro, tram) (2024)	335 km in 6 cities	
Proportion of population that has convenient access to public transport (2020)	37.70%	
Intercity Rail		
Rail network (2021)	9 455 km	
Rail travel activity (2019)	14 890 million passenger-km	
Rail freight activity (2019)	33 646 million ton-km	
High-speed rail		
High-speed rail travel activity		

Total road vehicles in use per 1,000 people (2020)	182.5
Road vehicle fleet growth (from 2015 to 2020)	12.97%
Rural Access Index (2019) SDG 9.1	
Diesel prices (2022)	0.07 USD per litre
Gasoline prices (2022)	0.34 USD per litre
<b>→</b> Aviation	
Air passengers carried (2021)	13.7 million people
Air freight activity (2021)	273.6 million ton-km
Carbon-accredited airports (2023)	
of which carbon neutral:	
Shipping	
Logistics Performance Index (2023)	_
Liner shipping connectivity index (Q4 2024)	31.1
Container port traffic (2020)	1853 000.0 TEU
Transport Energy Sources	
Biofuel blend overall mandate (2023)	_
Biofuel blend biodiesel mandate (2023)	
Biofuel blend ethanol mandate (2023)	
Carbon intensity of electricity (2023)	641.73 gCO <sub>2</sub> /kWh
Renewable energy (biofuels and electricity) share in transport (2022) SDG 721	0.1% of total transport energy consumption
Biofuels (2022)	
Electricity (2022)	0.1% of total transport energy consumption
Targeted renewable power share	
vehicle Technologies	
Emission standards for LDVs (2024)	Below Euro 3
CO2 emissions performance for passenger cars (2024)	
Targeted CO₂ emissions performance (2024)	No target set
Regulatory environment ranking on used vehicles (2024)	Very Good
Electric vehicles stock for passenger cars (2024)	
Share of electric vehicles in car sales (2024)	
ICE phase-out targets	×
Electric vehicles stock for vans (2024)	
Electric vehicles stock for trucks (2024)	

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.

National plans for passenger and freight rail expansion

increase freight capacity to 60 million tons annually

▶ 34 rail projects with 3,200 km in construction and 6,000 km in planning

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

TEU Iventy-foot Equivalent Unit UNEP United Nations Environment Programme United Nations Environment Programme United Nations Framework Comention or United Nations Framework Convention or Williamst Change Valuntary national review of the Sustainable Developiment Goals WILTP Worldwide harmonised light vehicles test procedure procedure













(2024)**S** Target

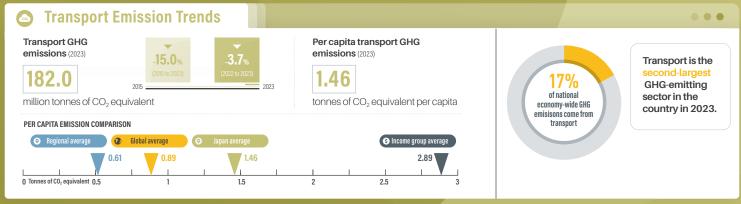
# <u>Japan</u>

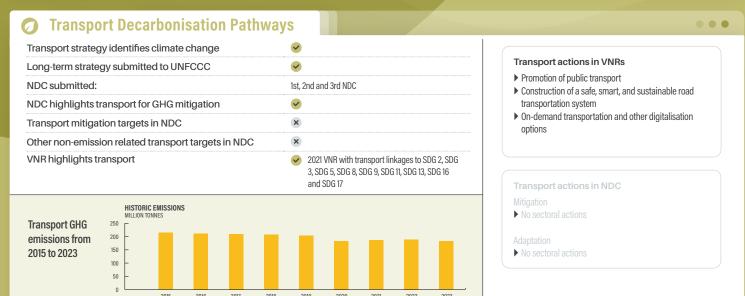
Japan's transport sector has seen a decline in both passengie (-9,95%) and freight (-6,44%) transport activity from 2015 to 2023. Passenger cars dominate travel (66.16%), while road freight remains the primary mode (92.66%) for freight transport Transport emissions have decreased by 15.02% since 2015, yet per capita emissions (1.46 tonnes) remain above global and regional averages. Renewable energy, including biofuels and electricity, represented only 2.9% of Japan's total transport energy consumption, whereas the carbon intensity of its electricity remains high, at 493.6 gCO<sub>2</sub>/kWh in 2023. Beyond climate impacts, transport accounted for 9,7% of national air pollutant emissions in 2019. Transport-induced air pollution

in turn, caused 3.1 premature deaths per 100,000 people in Japan in 2019. Road traffic injuries, on the other hand, are responsible for 2.7 deaths per 100,000 people and accounted for 1.2% of Japan's GDP in 2021. In 2020, an impressive 74.18% of Japan's population had convenient access to public transport, whereas no data is available on rural populations' access to alt-weather roads. Policies support rail expansion and public transport, with urban rail spanning over 1,000 km. Frameworks on sustainable urban mobility planes, national walking and cycling strategies were not identified. The share of electric vehicle is still low with 3.6% of total car sales, lagging behind other high-income countries.

\$	Income group: High-income	
•	Human Development Index (2023): 0.93	
210	Population size (2023): 127.19 million	<b>-2.11%</b> (2015 - 2023)
.4	Urban population share (2023): 92.48%	<b>-1.41%</b> (2015 - 2023)
di	<b>GDP per capita (2023):</b> 37 033.29 USD	<b>+6.11%</b> (2015 - 2023)
•	Share of transport and storage jobs in workforce (202	3) 10.7%
Q	Share of women employed in transport and storage (2	2023) 26%







COUNTRY FACT SHEET | JAPAN



## Policy Areas: Indicators and Targets

integrated Transport Planning		
National urban mobility framework (2024)	<	
Sustainable urban mobility plans (2024)	× but Low Carbon City Act	
Number of sustainable urban mobility plans (2022)	×	
Low emission zones (2022)	4 cities	
Adaptation and Resilience		
ND-GAIN Index (2022)	66.53	
Vulnerability score for infrastructure (2022)	0.41	

*	Walking
---	---------

Walkability Score (2024)	0.81
National walking strategies (2024)	×

## **%** Cycling

Cycling infrastructure in capital (2024)	300 km (13 kilometres of protected facilities in 2019)
Percent near protected bikeways (2024)	4%
Bike sharing systems (2024)	98
National cycling strategies (2024)	<b>⊘</b>

## **₽₽** Public Transport

Bus rapid transit (2024)	29 km of total length in 2 cities
Bus rapid transit daily passenger volume (2024)	9100 passengers per day
Urban rail (LRT, metro, tram) (2024)	Over 1,000 km in 24 cities
Proportion of population that has convenient access to public transport (2020)  SDG 112	74.18%

## Intercity Rail

Rail network (2011)	20 087.4 km
Rail travel activity (2020)	263 211 million passenger-km
Rail freight activity (2020)	18 340 million ton-km
High-speed rail (2023)	1747 km
High-speed rail travel activity (2023)	74221 million passenger-km
National plans for passenger and freight rail expansion (2024)	•



▶ To promote a modal shift, raise rail freight transport volume from 19.34 billion tonkilometres (in 2013) to 25.64 billion ton-kilometres (by 2030), resulting in 1.466 million tonnes less CO<sub>2</sub> emissions

Road Transport	
Total road vehicles in use per 1,000 people (2020)	606.0
Road vehicle fleet growth (from 2015 to 2020)	-0.91%
Rural Access Index (2019) SDG 91	
Diesel prices (2022)	0.94 USD per litre
Gasoline prices (2022)	1.13 USD per litre
<b>→</b> Aviation	
Air passengers carried (2021)	45.4 million people
Air freight activity (2021)	10 947.0 million ton-km
Carbon-accredited airports (2023)	5 airports
of which carbon neutral:	5 airports
<b>a</b> Shipping	
Logistics Performance Index (2023)	3.9
Liner shipping connectivity index (Q4 2024)	69.7
Container port traffic (2020)	21385 632.0 TEU
Transport Energy Sources	
Biofuel blend overall mandate (2023)	
Biofuel blend biodiesel mandate (2023)	
Biofuel blend ethanol mandate (2023)	
Carbon intensity of electricity (2023)	493.59 gCO <sub>2</sub> /kWh
Renewable energy (biofuels and electricity) share in transport (2022) SDG721	2.9% of total transport energy consumption
Biofuels (2022)	0.7% of total transport energy consumption
Electricity (2022)	2.2% of total transport energy consumption
Targeted renewable power share	38%
vă Vehicle Technologies	
Emission standards for LDVs (2024)	Euro 4 and above
CO <sub>2</sub> emissions performance for passenger cars (2024)	115 g CO <sub>2</sub> /km in 2018
Targeted CO <sub>2</sub> emissions performance (2024)	83 g CO <sub>2</sub> /km by 2030
Regulatory environment ranking on used vehicles (2024)	
Electric vehicles stock for passenger cars (2024)	340 000 vehicles
Share of electric vehicles in car sales (2024)	2.8%
ICE phase-out targets	×
Electric vehicles stock for vans (2024)	20 000 vehicles
Electric vehicles stock for trucks (2024)	410 vehicles

This fact sheet is part of the SLOCAT Transport, Climate and Sustainability Global Status Report -  $4^{\circ}$  Edition. The country fact sheets have been made possible thanks to financial support from the ClimateWorks Foundation. 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 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: Drive Electric

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

procedure









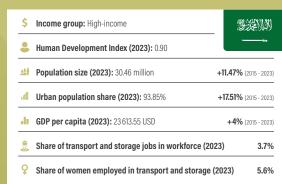




# Saudi Arabia

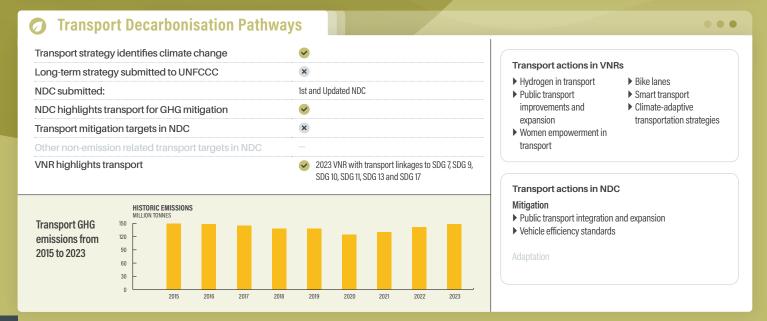
Saudi Arabia's transport sector is highly dependent on fossil fuels, with 100% of its transport energy coming from petroleum products. Thus, the carbon intensity of the country's electricity remains very high, at 696.3 gCO<sub>2</sub>/kWh in 2023. Passenger travel is dominated by private vehicles, accounting for 87.8% of trips in Riyadh. Transport emissions have slightly declined since 2015 (-0.9%) but remain high at 4.49 tonnes per capita, far exceeding global and regional averages. Regarding air pollution, transport contributed 5.2% to the national air pollutant emissions in 2019, causing 2.62 premature deaths per 100,000 people in Saudi Arabia. Saudi

Arabia was the country with the second-highest number of road traffic fatalities in Asia, with 18.5 deaths per 100,000 people. Road traffic fatalities accounted for a high share of 9.3% of Saudi Arabia's GDP in 2021. In 2020, only 29.81% of Saudi Arabia's population had convenient access to public transport. The country is prioritising rail expansion and smart transport solutions, while policies supporting public transport and vehicle electrification remain limited. Overarching frameworks towards sustainable, low-carbon transport were not identified for Saudi Arabia.







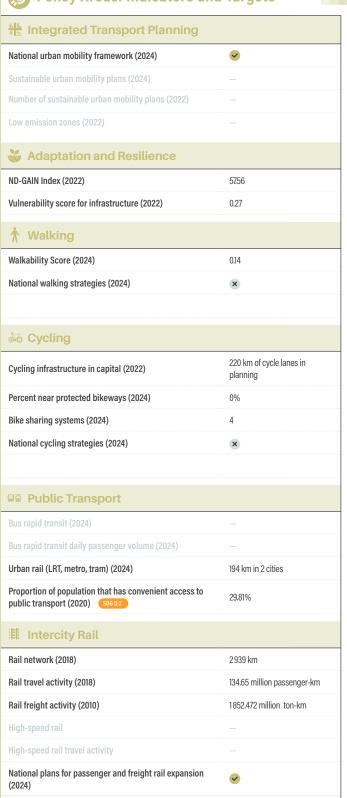




## Policy Areas: Indicators and Targets







Total road vehicles in use per 1,000 people (2020)	
Road vehicle fleet growth (from 2015 to 2020)	
Rural Access Index (2019) SDG 9.1	
Diesel prices (2022)	0.14 USD per litre
Gasoline prices (2022)	0.53 USD per litre
* Aviation	
Air passengers carried (2021)	29.4 million people
Air freight activity (2021)	678.6 million ton-km
Carbon-accredited airports (2023)	3 airports
of which carbon neutral:	1 airport
Shipping	
Logistics Performance Index (2023)	3.4
Liner shipping connectivity index (Q4 2024)	69.5
Container port traffic (2020)	9 394100.0 TEU
Transport Energy Sources	
Biofuel blend overall mandate (2023)	_
Biofuel blend biodiesel mandate (2023)	
Biofuel blend ethanol mandate (2023)	
Carbon intensity of electricity (2023)	696.31 gCO <sub>2</sub> /kWh
Renewable energy (biofuels and electricity) share in transport (2022) SDG 7.21	0.0% of total transport energy consumption
Biofuels (2022)	
Electricity (2022)	
Targeted renewable power share	50%
<b>ĕ</b> Vehicle Technologies	
Emission standards for LDVs (2024)	Below Euro 3
CO2 emissions performance for passenger cars (2024)	
Targeted CO <sub>2</sub> emissions performance (2024)	No target set
Regulatory environment ranking on used vehicles (2024)	Good
Electric vehicles stock for passenger cars (2024)	
Share of electric vehicles in car sales (2024)	
ICE phase-out targets	×
Electric vehicles stock for vans (2024)	
Electric vehicles stock for trucks (2024)	

This fact sheet is part of the SLOCAT Transport, Climate and Sustainability Global Status Report –  $4^{\text{th}}$  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 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: Drive Electric

▶ Increase local content in rail operations to 60% by 2025 ▶ Create over 3,000 jobs in the local market

▶ Grow rail network to 8,000 km

cronyms
Grass-domestic product
Heavy-duty vehicle
Internal combustion engine
Kilowath-bour
Light-duty vehicle
Light-rail transit
Nationally determined contribution
Primary, secondary or tertiary roads

Twenty-foot Equivalent Unit TEU Inverty-hot Equivalent Unit
UNEP United Nations Environment Programme
UNFCC United Nations Framework Convention on
Climate Change
Voluntary national review of the
Sustainable Developiment Goals
WLTP
Worldwide harmonised light vehicles test.

procedure











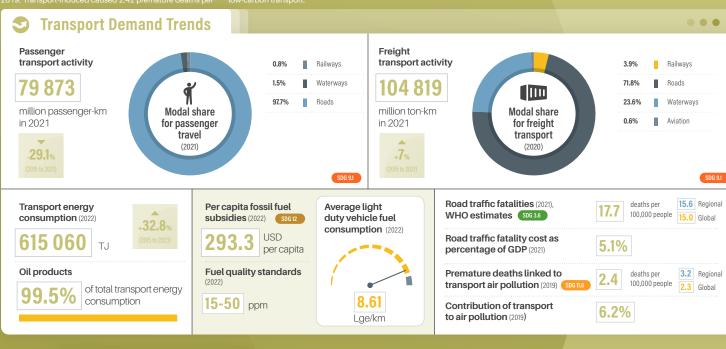


# Viet Nam

Viet Nam's transport sector is dominated by road travel, accounting for nearly 98% of passenger mobility and over 71% of freight movement. Despite economic growth, data indicates that passenger travel activity declined by 29% from 2015 to 2021, while freight transport increased. Transport emissions rose by 18.4% since 2015, contributing 7.6% of national GHG emissions in 2023. Renewable energy, including biofuels and electricity, accounted for a mere 0.4% of the country's transport energy consumption, whereas the carbon intensity of its electricity remained high, at 472.5 gCO<sub>2</sub>/kWh in 2023. Concerning sustainability aspects, transport accounted for 6.2% of national air pollution 2019. Transport-induced caused 2.42 premature deaths per

100,000 people in Viet Nam in the same year. Road traffic injuries are significant contributor to overall deaths, claiming 17.7 lives per 100,000 people and accounted for 5.10% of Viet Nam's GDP in 2021. In 2020, 52.51% of Viet Nam's population had convenient access to public transport, whereas an impressive 88.5% of the rural population had access to all-weather roads. Viet Nam's policies support public transport expansion, vehicle efficiency improvements and alternative fuels. Planned investments in rall and low-emission zones signal steps towards sustainability. However, high reliance on oil (199.6%), dominance of road transport and above-average road traffic fatalities pose ongoing challenges for sustainable, low-carbon transport.

\$	Income group: Middle-income	
<u>.</u>	Human Development Index (2023): 0.77	
229	Population size (2023): 93.39 million	<b>+8.43%</b> (2015 - 2023)
.1	Urban population share (2023): 39.90%	<b>+26.15%</b> (2015 - 2023)
di	<b>GDP per capita (2023):</b> 3772.54 USD	<b>+45.46%</b> (2015 - 2023)
\$	Share of transport and storage jobs in workfor	rce (2023) 4.1%
ç	Share of women employed in transport and sto	orage (2023) 13.7%



#### **Transport Emission Trends** . . . Transport GHG Per capita transport GHG emissions (2023) emissions (2023) 18.4% 12.2 Transport is the 39.9 **GHG-emitting** of national sector in the million tonnes of CO<sub>2</sub> equivalent tonnes of CO<sub>2</sub> equivalent per capita economy-wide GHG country in 2023. emisisons come from PER CAPITA EMISSION COMPARISON transport (§ Income group average 0.58 Tonnes of CO2 equivalent 0.5



COUNTRY FACT SHEET | VIET NAM



## Policy Areas: Indicators and Targets





&B		
Integrated Transport Planning		
National urban mobility framework (2024)		
Sustainable urban mobility plans (2024)		
Number of sustainable urban mobility plans (2022)		
Low emission zones (2022)	2 planned LEZs	
Adaptation and Resilience		
ND-GAIN Index (2022)	48.70	
Vulnerability score for infrastructure (2022)	0.54	
<b>†</b> Walking		
Walkability Score (2024)	_	
National walking strategies (2024)	×	
Cycling infrastructure in capital (2022)	2.3 km	
Percent near protected bikeways (2024)		
Bike sharing systems (2024)	8	
National cycling strategies (2024)	×	
ଇଲ୍ଲ Public Transport		
Bus rapid transit (2024)	15 km of total length in 1 city	
Bus rapid transit daily passenger volume (2024)	8 000 passengers per day	
Urban rail (LRT, metro, tram) (2024)	41.3 km in 2 cities	
Proportion of population that has convenient access to public transport (2020) SDG 112	52.51%	
Intercity Rail		
Rail network (2021)	3159 km	
Rail travel activity (2020)	1516 million passenger-km	
Rail freight activity (2020)	3759 million ton-km	
High-speed rail		
High-speed rail travel activity		
National plans for passenger and freight rail expansion (2024)	•	
Target  ▶ Add nine new rail lines with 2,362 km by 2030  ▶ To have a network of 25 lines with a length of 6,354 km by	2050	

<b>li</b> Road Transport	
Total road vehicles in use per 1,000 people (2020)	49.0
Road vehicle fleet growth (from 2015 to 2020)	120.53%
Rural Access Index (2019) SDG 9.1	88.5 RAI PST
Diesel prices (2022)	0.87 USD per litre
Gasoline prices (2022)	1.05 USD per litre
<b>→</b> Aviation	
Air passengers carried (2021)	14.8 million people
Air freight activity (2021)	676.5 million ton-km
Carbon-accredited airports (2023)	
of which carbon neutral:	
â Shipping	
Logistics Performance Index (2023)	_
Liner shipping connectivity index (Q4 2024)	77.5
Container port traffic (2020)	12422588.0 TEU
Transport Energy Sources	
Biofuel blend overall mandate (2023)	_
Biofuel blend biodiesel mandate (2023)	5.0%
Biofuel blend ethanol mandate (2023)	5.0%
Carbon intensity of electricity (2023)	472.47 gCO₂/kWh
Renewable energy (biofuels and electricity) share in transport (2022) SDG 7.2.1	0.4% of total transport energy consumption
Biofuels (2022)	0.1% of total transport energy consumption
Electricity (2022)	0.3% of total transport energy consumption
Targeted renewable power share	39%
Vehicle Technologies	
Emission standards for LDVs (2024)	Euro 4 and above
CO2 emissions performance for passenger cars (2024)	
Targeted CO <sub>2</sub> emissions performance (2024)	No target set
Regulatory environment ranking on used vehicles (2024)	Good
Electric vehicles stock for passenger cars (2024)	110 000 vehicles
Share of electric vehicles in car sales (2024)	17%
ICE phase-out targets	<b>x</b>
Electric vehicles stock for vans (2024)	

This fact sheet is part of the SLOCAT Transport, Climate and Sustainability 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 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.

List of acronyms
GDP Gross-domestic product
HDW Heavy-duty-vehicle
ICE Internal combustion engine
KWh Kilowett-hour
LDW Light-duty-vehicle
LRT Light-rail transit
NDC Nationally determined contribution
PST Primary, secondary or tertiary roads

TEU Iventy-foot Equivalent Unit UNEP United Nations Environment Programme United Nations Environment Programme United Nations Framework Comention or United Nations Framework Convention or Williamst Change Valuntary national review of the Sustainable Developiment Goals WILTP Worldwide harmonised light vehicles test procedure procedure











## <u>France</u>

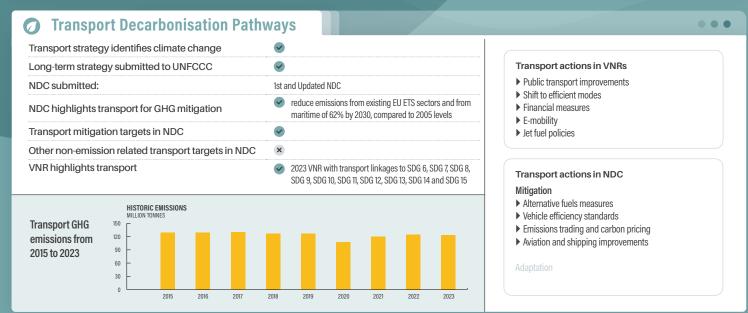
France has been actively pursuing a transition towards sustainable transport by setting frameworks for rail improvements, better public transport and stronger active mobility. These efforts are urgently needed, as the transport sector was with 32% the largest contributor to national greenhouse gas emissions in 2023. Renewable energy accounted for 9.2% of the country's transport energy consumption in 2022. Moreover, France boasts a particularly low carbon intensity of electricity, at 55.3 gCO<sub>2</sub>/kWh in 2023, thanks to its heavy reliance on low-carbon nuclear power. Despite a 4.11% decline in transport emissions from 2015 to 2023, per capita emissions remain at 1.86 tonnes, above the global average. Passenger travel is dominated by cars (83%), while freight relies on roads (84%).

Beyond climate impacts, transport accounted for 13.2% of national air pollutant emissions in 2019. Transport-induced air pollution, in turn, caused 2.74 premature deaths per 100,000 people in France in 2019. Road traffic injuries, on the other hand, claimed 4.7 lives per 100,000 people and accounted for 1.90% of France's GDP in 2021. Walking and cycling has been strongly supported in French cities, spearheaded by the success in Paris over the past years. France promotes EU-led transport policies, such as electric vehicles, and emissions trading. It targets 100% zero-emission car sales by 2035. Sustainable mobility plans and low-emission zones are in place across multiple cities to further reduce emissions, increase road safety and ensure access.

\$ Income group: High-income	
Human Development Index (2023): 0.92	
Population size (2023): 65 million	<b>+2.4%</b> (2015 - 2023)
Urban population share (2023): 81.81%	<b>+5.8%</b> (2015 - 2023)
<b>GDP per capita (2023):</b> 40 025.83 USD	<b>+6.4%</b> (2015 - 2023)
Share of transport and storage jobs in workfore	ce (2023) 8.7%
Share of women employed in transport and sto	orage (2023) 28.2%







COUNTRY FACT SHEET | FRANCE



## Policy Areas: Indicators and Targets



Integrated Transport Planning	
National urban mobility framework (2024)	•
Sustainable urban mobility plans (2024)	•
Number of sustainable urban mobility plans (2022)	37 cities
Low emission zones (2022)	32 cities
3 Adaptation and Resilience	
ND-GAIN Index (2022)	67.73
Vulnerability score for infrastructure (2022)	0.27
∱ Walking	
Walkability Score (2024)	0.89
National walking strategies (2024)	<ul> <li>Combined with cycling as active mobility strategy</li> </ul>

<b>(4)</b>	Ö	C	yc	:li	ทยู	J
_						

Cycling infrastructure in capital (2024)	1102 km
Percent near protected bikeways (2024)	44%
Bike sharing systems (2024)	79
National coefficients and a (0004)	Combined with walking as



- ▶ To reach 80,000 km of cycling facilities by 2027 and 100,000 km by 2030.
- ▶ To have 13 million bicycles registered by 2027.
- ▶ To have 90,000 secure bicycle parking spaces by 2027.
- ▶ To produce domestically 2 million bicycles by 2030.

#### **₽** Public Transport

National cycling strategies (2024)

Bus rapid transit (2024)	392 km of total length in 23 cities
Bus rapid transit daily passenger volume (2024)	1757 519 passengers per day
Urban rail (LRT, metro, tram) (2024)	Over 686 km in 31 cities
Proportion of population that has convenient access to public transport (2020) SDG 11.2	95.3%

## Intercity Rail

Rail network (2021)	27716 km
Rail travel activity (2021)	86 853 million passenger-km
Rail freight activity (2021)	35751.3 million ton-km
High-speed rail (2022)	2796 km
High-speed rail travel activity (2023)	59 673 million passenger-km
National plans for passenger and freight rail expansion (2024)	•



- ▶ France to invest EUR 100 billion in upgrades of rail services by 2040
- ▶ Double the share of railways in the French market from 9% (32 billion tonne-kilometers) to 18% by 2030

active mobility strategy

GDP	Gross-domestic product
HDV	Heavy-duty vehicle
ICE	Internal combustion engine
kWh	Kilowatt-hour

Light-duty vehicle
Light-rail transit
Nationally determined contribution
Primary, secondary or tertiary roads

Twenty-foot Equivalent Unit TeU Inverty-hot Equivalent Unit
UNEP United Nations Environment Programme
UNFCC United Nations Framework Convention on
Climate Change
Voluntary national review of the
Sustainable Developiment Goals
WLTP
Worldwide harmonised light vehicles test.

procedure

Road Transport	
Total road vehicles in use per 1,000 people (2020)	690.1
Road vehicle fleet growth (from 2015 to 2020)	4.46%
Rural Access Index (2019) SDG 91	
Diesel prices (2022)	1.55 USD per litre
Gasoline prices (2022)	1.76 USD per litre
<b>→</b> Aviation	
Air passengers carried (2021)	32.0 million people
Air freight activity (2021)	4107.0 million ton-km
Carbon-accredited airports (2023)	83 airports
of which carbon neutral:	13 airports
<b>Shipping</b>	
Logistics Performance Index (2023)	3.9
Liner shipping connectivity index (Q4 2024)	74.3
Container port traffic (2020)	5107857.0 TEU
① Transport Energy Sources	
Biofuel blend overall mandate (2023)	
Biofuel blend biodiesel mandate (2023)	8.4%
Biofuel blend ethanol mandate (2023)	9.2%
Carbon intensity of electricity (2023)	55.28 gCO₂/kWh
Renewable energy (biofuels and electricity) share in transport (2022) SDG721	9.2% of total transport energy consumption
Biofuels (2022)	7.1% of total transport energy consumption
Electricity (2022)	2.1% of total transport energy consumption
Targeted renewable power share	40%
vehicle Technologies	

Emission standards for LDVs (2024)	Euro 4 and above
CO <sub>2</sub> emissions performance for passenger cars (2024)	89 g CO <sub>2</sub> /km in 2023
Targeted CO <sub>2</sub> emissions performance (2024)	0 g CO <sub>2</sub> /km by 2035
Regulatory environment ranking on used vehicles (2024)	
Electric vehicles stock for passenger cars (2024)	1100 000 vehicles
Share of electric vehicles in car sales (2024)	24%
ICE phase-out targets	<b>⊘</b> (2035)
Electric vehicles stock for vans (2024)	110 000 vehicles
Electric vehicles stock for trucks (2024)	5 400 vehicles

This fact sheet is part of the SLOCAT Transport, Climate and Sustainability Global Status Report -  $4^{\text{th}}$  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 reflect 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: Drive Electric CAMPAIGN







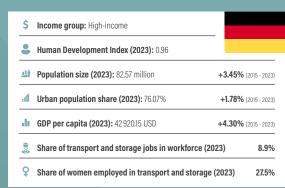


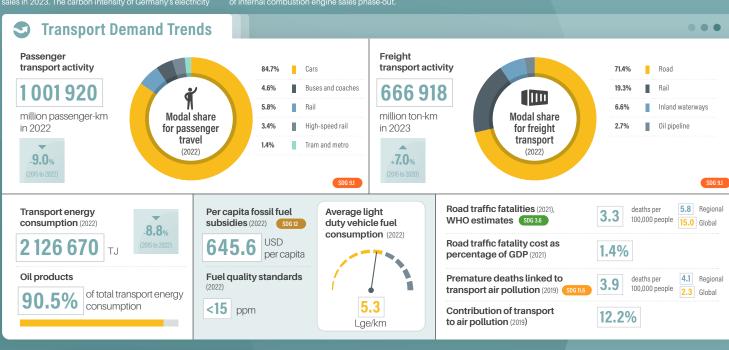


# <u>Germany</u>

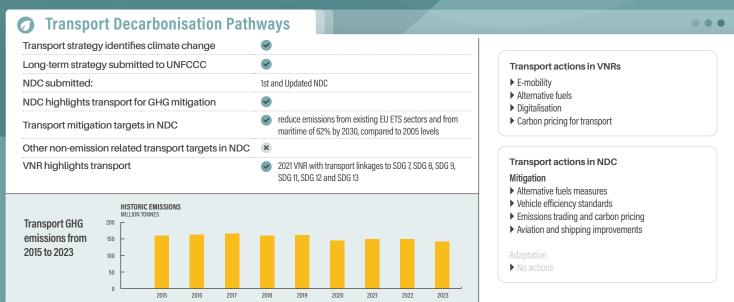
Germany's transport sector faces challenges in decarbonisation and sustainability despite progress in rail and electric mobility. Passenger transport activity declined by 9% from 20 15 to 2022, with cars remaining dominant (85% share). The rate of private cars was at 625 vehicles per 1,000 people in 2020. Freight activity grew by 7% in the same period, with road transport accounting for 71% of volumes. Transport GHG emissions dropped by 11% from 2015 to 2023, but the sector remained the second-largest emitter as of 2023. Renewable energy use in transport reached 8.1%, and electric vehicles accounted for 24% of car sales in 2023. The carbon intensity of Germany's electricity

remained high, at 371.3 gCO<sub>2</sub>/kWh in 2023. Beyond climate impacts, transport accounted for 12.2% of national air pollutant emissions in 2019. Transport-induced air pollution, in turn, caused 3.94 premature deaths per 100,000 people in Germany in 2019. Road traffic injuries, on the other hand, claimed 3.3 lives per 100,000 people and accounted for 1.40% of Germany's GDP in 2021. In 2020, a significant share (38.83%) of France's population had convenient access to public transport, whereas no data is available on the rural population's access to all-weather roads. Policies support rail expansion, e-mobility, carbon pricing and the 2035 EU target of internal combustion engine sales phase-out.









COUNTRY FACT SHEET | GERMANY



## Policy Areas: Indicators and Targets



Integrated Transport Planning	
National urban mobility framework (2024)	•
Sustainable urban mobility plans (2024)	✓
Number of sustainable urban mobility plans (2024)	78 cities
Low emission zones (2024)	61 cities
Adaptation and Resilience	
ND-GAIN Index (2022)	69.48
Vulnerability score for infrastructure (2022)	0.34
<b>∱</b> Walking	
Walkability Score (2024)	0.83
National walking strategies (2024)	•
☐ Target  Increase foot traffic and implement shorter distances	
ঠি Cycling	
Cycling infrastructure in capital (2022)	1000 km
Percent near protected bikeways (2024)	62%
Bike sharing systems (2024)	96
National cycling strategies (2024)	€
Target  ▶ 60% of citizens to cycle more in future  ▶ Decrease the number of cyclists killed in traffic by 40% (cor	npared to 2019 levels)
ଇଛି Public Transport	
Bus rapid transit (2024)	31 km of total length in 2 cities
Bus rapid transit daily passenger volume (2024)	42 000 passengers per day
Urban rail (LRT, metro, tram) (2024)	Over 2 200 km in 62 cities
Proportion of population that has convenient access to public transport (2020)  SDG 11.2	88.83%
Intercity Rail	
Rail network (2021)	33 401 km
Rail travel activity (2020)	58 822 million passenger-km
Rail freight activity (2021)	123 067 million ton-km
High-speed rail (2023)	2785 km
High-speed rail travel activity (2023)	37957 million passenger-km
National plans for passenger and freight rail expansion (2024)	•
Target  ▶ 30% of rail freight traffic to be on rail by 2035  ▶ 15% of passenger traffic to be on rail by 2035	

Road Transport	
Total road vehicles in use per 1,000 people (2020)	625.0
Road vehicle fleet growth (from 2015 to 2020)	7.95%
Rural Access Index (2019) SDG 9.1	
Diesel prices (2022)	1.70 USD per litre
Gasoline prices (2022)	1.87 USD per litre
<b>→</b> Aviation	
Air passengers carried (2021)	33.1 million people
Air freight activity (2021)	11 533.0 million ton-km
Carbon-accredited airports (2023)	10 airports
of which carbon neutral:	none
<b>Shipping</b>	
Logistics Performance Index (2023)	4.1
Liner shipping connectivity index (Q4 2024)	85.1
Container port traffic (2020)	18 028 702.0 TEU
Transport Energy Sources	
Biofuel blend overall mandate (2023)	6.3%
Biofuel blend biodiesel mandate (2023)	4.4%
Biofuel blend ethanol mandate (2023)	2.8%
Carbon intensity of electricity (2023)	371.31 gCO₂/kWh
Renewable energy (biofuels and electricity) share in transport (2022) SDG 7.21	8.1% of total transport energy consumption
Biofuels (2022)	5.8% of total transport energy consumption
Electricity (2022)	2.2% of total transport energy consumption
Targeted renewable power share	80%
Vehicle Technologies	
Emission standards for LDVs (2024)	Euro 4 and above
CO <sub>2</sub> emissions performance for passenger cars (2024)	89 g CO <sub>2</sub> /km in 2023
Targeted CO <sub>2</sub> emissions performance (2024)	0 g CO <sub>2</sub> /km by 2035
Regulatory environment ranking on used vehicles (2024)	
Electric vehicles stock for passenger cars (2024)	1900 000 vehicles
Share of electric vehicles in car sales (2024)	19%
ICE phase-out targets	<b>⊘</b> (2035)
Electric vehicles stock for vans (2024)	96 000 vehicles
Electric vehicles stock for trucks (2024)	9 500 vehicles

This fact sheet is part of the SLOCAT Transport, Climate and Sustainability 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 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: Drive Electric CAMPAIGN

List of acronyms
GDP Gross-domestic product
HDW Heavy-duty-vehicle
ICE Internal combustion engine
KWh Kilowatt-hour
LDW Light-duty-vehicle
LRT Light-rail transit
NDC Nationally determined contribution
PST Primary, secondary or tertiary roads



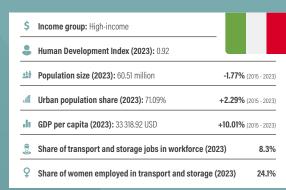


**®** ₩

# <u>Italy</u>

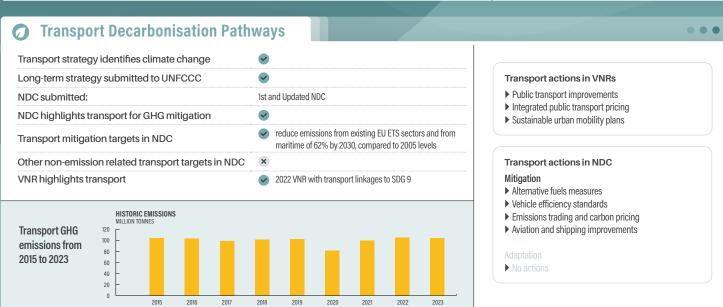
The key areas of sustainable, low-carbon transport in **traly** are urban mobility improvements, high-speed rall improvements and alternative fuels. Italy's transport sector remained the country's largest source of greenhouse gas emissions, contributing 27.8% of national emissions in 2023. Renewable energy, including biofuels and electricity, accounted for 5.9% of Italy's transport energy consumption, whereas the carbon intensity of its electricity was moderate, at 323.5 gCO<sub>y</sub>kWh in 2023. While transport emissions declined slightly (-0.33% from 2015 to 2023), passenger travel demand fell (-11.2%) while freight activity surged (+25.7%). Road transport dominates both passenger (81% cars) and freight (83.7% road) modes. Concerning sustainability issues, transport accounter

for 14.4% of national air pollutant emissions in 2019. Transport-induced air pollution, in turn, caused 6.06 premature deaths per 100,000 people in Italy in 2019. Road traffic injuries, on the other hand, claimed 5 lives per 100,000 people and accounted for 2.20% of Italy's GDP in 2021. In 2020, 93.47% of Italy's population had convenient access to public transport. Private motorisation rates are also extremely high with 749.5 vehicles per 1,000 people in 2020. The country has strong policies for transport decarbonisation, including emissions trading, vehicle efficiency standards, and high-speed rail expansion. Italy follows the EU target of an internal combustion engine sales phase-out by 2035 and aims to expand electric vehicle adoption.









COUNTRY FACT SHEET | ITALY



## Policy Areas: Indicators and Targets



## Integrated Transport Planning Required for every city National urban mobility framework (2024) above 100,000 population Sustainable urban mobility plans (2024) Number of sustainable urban mobility plans (2024) 45 cities Low emission zones (2024) 180 cities Adaptation and Resilience ND-GAIN Index (2022) 59.58 Vulnerability score for infrastructure (2022) 0.39 **↑** Walking Walkability Score (2024) 0.74 National walking strategies (2024) **Cycling** Cycling infrastructure in capital (2022) 254 km Percent near protected bikeways (2024) 29% Bike sharing systems (2024) 115 National cycling strategies (2024) **M** Target ▶ To construct 565 km of cycling paths in urban areas ▶ To strengthen connections between railway stations and universities by June 2026

Public Transport	
Bus rapid transit (2024)	
Bus rapid transit daily passenger volume (2024)	
Urban rail (LRT, metro, tram) (2024)	289 km in 16 cities
Proportion of population that has convenient access to public transport (2020) SDG 11.2	93.47%
Intercity Rail	
Boil notwork (2021)	17.205.0

Intercity Rail	
Rail network (2021)	17 305.2 km
Rail travel activity (2021)	27 693 million passenger-km
Rail freight activity (2021)	24262 million ton-km
High-speed rail (2023)	1097 km
High-speed rail travel activity (2017)	5290 million passenger-km
National plans for passenger and freight rail expansion (2024)	•



- ► The accelerated implementation of a 5-year agreement between the ministry of transport and the national rail company
- ▶ The acceleration of procedures for approving rail projects, with the following planned investments

  High-speed train connections towards south Italy for
- freight and passengers

  High-speed train connections in the North of Italy
- Diagonal connections
- ▶ Development of European system for management of rail transport
- Improvement of metropolitan rail connections and national key hubs
- ▶ Improvement of regional railways
- ▶ Improvement, electrification, and resilience of railways in South Italy
- Improvement of rail stations in the South of Italy

Total road vehicles in use per 1,000 people (2020)	749.5
Road vehicle fleet growth (from 2015 to 2020)	6.53%
Rural Access Index (2019) SDG 9.1	
Diesel prices (2022)	1.47 USD per litre
Gasoline prices (2022)	1.77 USD per litre
✓ Aviation	
Air passengers carried (2021)	2.4 million people
Air freight activity (2021)	1150.7 million ton-km
Carbon-accredited airports (2023)	19 airports
of which carbon neutral:	7 airports
Shipping	
ogistics Performance Index (2023)	3.7
iner shipping connectivity index (Q4 2024)	76.3
Container port traffic (2020)	9 800 000.0 TEU
Transport Energy Sources	
Biofuel blend overall mandate (2023)	10.0%
Biofuel blend biodiesel mandate (2023)	
Biofuel blend ethanol mandate (2023)	
Carbon intensity of electricity (2023)	323.45 gCO <sub>2</sub> /kWh
Renewable energy (biofuels and electricity) share in transport (2022) SDG723	5.9% of total transport energy consumption
Biofuels (2022)	3.8% of total transport energy consumption
Electricity (2022)	2.1% of total transport energy consumption
Targeted renewable power share	7210%
<b>ŏ</b> Vehicle Technologies	
Emission standards for LDVs (2024)	Euro 4 and above
CO <sub>2</sub> emissions performance for passenger cars (2024)	89 g CO <sub>2</sub> /km in 2023
Targeted CO <sub>2</sub> emissions performance (2024)	0 g CO <sub>2</sub> /km by 2035
Regulatory environment ranking on used vehicles (2024)	
Electric vehicles stock for passenger cars (2024)	300 000 vehicles
Share of electric vehicles in car sales (2024)	7.9%
CE phase-out targets	<b>⊘</b> (2035)
Electric vehicles stock for vans (2024)	25 000 vehicles
Electric vehicles stock for trucks (2024)	

This fact sheet is part of the SLOCAT Transport, Climate and Sustainability Global Status Report –  $4^{\text{th}}$  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 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: Drive Electric

### List of acronyms

Ist of acronyms
GDP Gross-domestic product
HDV Heavy-duty vehicle
ICE Internal combustion engine
KMh Kilowatt-hour
LDV Light-duty vehicle
LRT Light-rall transit
NDC Microsoft Acronyms acrost in

Nationally determined contribution Primary, secondary or tertiary roads

Twenty-foot Equivalent Unit TeU Inverty-hot Equivalent Unit
UNEP United Nations Environment Programme
UNFCC United Nations Framework Convention on
Climate Change
Voluntary national review of the
Sustainable Developiment Goals
WLTP
Worldwide harmonised light vehicles test.

procedure



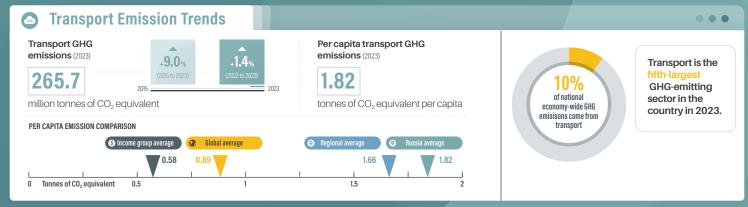
# Russia

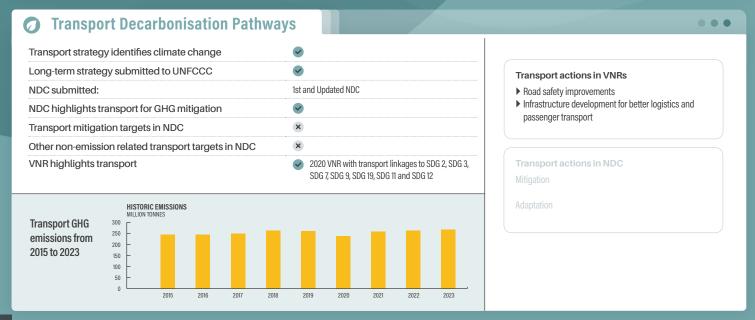
Russia's transport sector remains heavily reliant on fossil fuels and private motorisation. Renewable energy, including biofuels and electricity, accounted for 7.1% of Russia's transport energy consumption, whereas the carbon intensity of its electricity remains high, at 445 gCO<sub>2</sub>/kWh in 2023. Passenger transport activity declined by 5.6% from 2015 to 2022, while freight transport increased by 15.1%, with railways dominating both sectors. Transport emissions rose by nearly 9% from 2015 to 2023, contributing 9.94% to national GHG emissions. Beyond climate impacts, transport accounted for 5.9% of national air pollutant emissions in 2019. Transport-induced air pollution, in turn, caused 2.85

premature deaths per 100,000 people in Russia in 2019.
Road traffic injuries, on the other hand, claimed 10.6 lives per 100,000 people and accounted for 3.70% of Russia's GDP in 2021. In 2020, a significant share (80.12%) of Russia's population had convenient access to public transport, whereas no data is available on the rural population's access to all-weather roads. Russia has integrated transport into climate strategies but lacks specific mitigation targets. Urban mobility initiatives include a national framework and a sustainable urban mobility plan for one city. Rail expansion and logistics improvements are prioritised, yet electrification and renewable energy adoption remain limited.

\$	Income group: Middle-income	
•	Human Development Index (2023): 0.83	
±1†	Population size (2023): 145.53 million	<b>+0.41%</b> (2015 - 2023)
.4	<b>Urban population share (2023):</b> 74.05%	<b>+1.25%</b> (2015 - 2023)
di	<b>GDP per capita (2023):</b> 10 465.19 USD	<b>+11.36%</b> (2015 - 2023)
•	Share of transport and storage jobs in workforce (	2023) 10.8%
Q	Share of women employed in transport and storag	e (2023) 24.1%







COUNTRY FACT SHEET | RUSSIA



## Policy Areas: Indicators and Targets

integrated transport Planning	
National urban mobility framework (2024)	•
Sustainable urban mobility plans (2024)	•
Number of sustainable urban mobility plans (2024)	1 city (Pskov)
Low emission zones (2024)	1 city (Moscow)
Adaptation and Resilience	

*	Adap	tation	and	Resilience
---	------	--------	-----	------------

ND-GAIN Index (2022)	58.85
Vulnerability score for infrastructure (2022)	0.08

## **↑** Walking

Walkability Score (2024)	0.81
National walking strategies (2024)	×

## **Cycling**

Cycling infrastructure in capital (2024)	850 km
Percent near protected bikeways (2024)	4%
Bike sharing systems (2024)	7
National cycling strategies (2024)	×

## **Public Transport**

Bus rapid transit (2024)	
Bus rapid transit daily passenger volume (2024)	
	0 44001 ' 0 '''
Urban rail (LRT, metro, tram) (2024)	Over 1129 km in 8 cities

## Intercity Rail

Rail network (2021)	85 544 km
Rail travel activity (2021)	103 447 million passenger-km
Rail freight activity (2021)	2638562 million ton-km
High-speed rail	
High-speed rail travel activity (2020)	4606.6 million passenger-km
National plans for passenger and freight rail expansion (2024)	•



- ▶ To increase freight shipments by 500–800 million tonnes by 2030
- $\blacktriangleright$  To prioritise 'green' technologies and ensure a 50% reduction in the environmental burden

Road Transport	
Total road vehicles in use per 1,000 people (2020)	386.7
Road vehicle fleet growth (from 2015 to 2020)	10.36%
Rural Access Index (2019) SDG 9.1	
Diesel prices (2022)	0.62 USD per litre
Gasoline prices (2022)	0.67 USD per litre
<b>→</b> Aviation	
Air passengers carried (2021)	96.9 million people
Air freight activity (2021)	5 888.4 million ton-km
Carbon-accredited airports (2023)	
of which carbon neutral:	
Shipping	
Logistics Performance Index (2023)	2.6
Liner shipping connectivity index (Q4 2024)	31.7
Container port traffic (2020)	4871919.0 TEU
Transport Energy Sources	
Biofuel blend overall mandate (2023)	
Biofuel blend biodiesel mandate (2023)	
Biofuel blend ethanol mandate (2023)	
Carbon intensity of electricity (2023)	445.02 gCO <sub>2</sub> /kWh
Renewable energy (biofuels and electricity) share in transport (2022) SDG 723	7.1% of total transport energy consumption
Biofuels (2022)	
Electricity (2022)	7.1% of total transport energy consumption
Targeted renewable power share	19%
vehicle Technologies	
Emission standards for LDVs (2024)	Euro 4 and above
CO2 emissions performance for passenger cars (2024)	
Targeted CO <sub>2</sub> emissions performance (2024)	No target set
Regulatory environment ranking on used vehicles (2024)	Very Good
Electric vehicles stock for passenger cars (2024)	10 000 vehicles
Share of electric vehicles in car sales (2024)	2.9%
ICE phase-out targets	×
Electric vehicles stock for vans (2024)	20 vehicles
2.000.00 VOINGIOO OLOOK IOI VUIIO (LOLT)	20 70110100

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 reflect 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.

List of acronyms
GDP Gross-domestic product
Havy-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

TEU Twenty-foot Equivalent Unit UNEP United Nations Environment Programme UNFCCC United Nations Framework Convention on Climate Change Voluntary national review of the Sustainable Developiment Goals WIIP Worldwide harmonised light vehicles test procedure

procedure



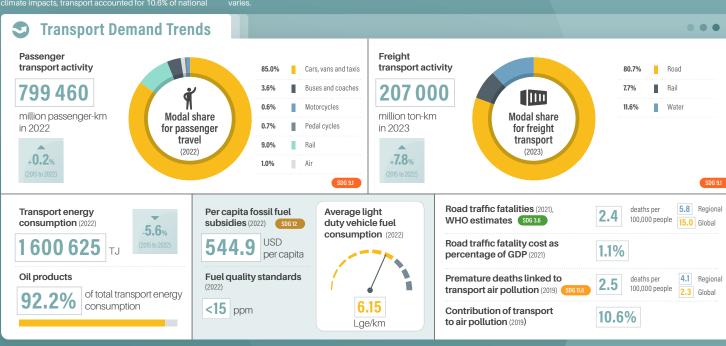
Supported by: Drive Electric CAMPAIGN

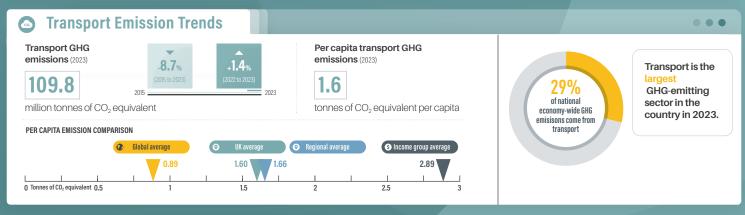
# <u>United Kingdom</u>

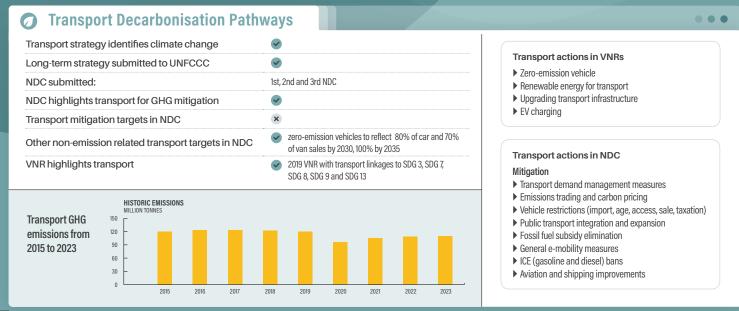
The **United Kingdom (UK)** has made progress towards sustainable, zero-emission transport, but challenges remain. Passenger travel activity has stagnated since 2015, while freight transport has increased. Cars dominate passenger transport, with buses and rail losing modal share. Transport remains the country's largest GHG-emitting sector, accounting for 28.93% of total emissions, despite a decline of 8.71% since 2015. Renewable energy, including biofuels and electricity, accounted for 7.6% of the UK's transport energy consumption, whereas the carbon intensity of its electricity is moderate, at 228.3  $\mathrm{gCO}_2/\mathrm{kWh}$  in 2023. Beyond climate impacts, transport accounted for 10.6% of national

air pollutant emissions in 2019. Transport-induced air pollution, in turn, caused 2.48 premature deaths per 100,000 people in the UK in 2019. Road traffic crashes claimed 2.4 lives per 100,000 people and accounted for 1.10% of the country's GDP in 2021. In 2020, an impressive 95.55% of the UK population had convenient access to public transport. Policies support zero-emission vehicles, urban mobility, and rail electrification, with an ICE phase-out target set for 2035. However, reliance on oil remains high, and fossil fuel subsidies persist. Investments in public transport, walking, and cycling aim to shift travel behaviour, though uptake varies.

\$	Income group: High-income	
•	Human Development Index (2023): 0.95	
229	Population size (2023): 65.64 million	<b>+5.10%</b> (2015 - 2023)
.4	<b>Urban population share (2023):</b> 84.60%	<b>+7.15%</b> (2015 - 2023)
di	<b>GDP per capita (2023):</b> 46 941.33 USD	<b>+4.41%</b> (2015 - 2023)
•	Share of transport and storage jobs in workforce (2	023) 9.1%
ç	Share of women employed in transport and storage	23.4%









## Policy Areas: Indicators and Targets



## Integrated Transport Planning National urban mobility framework (2024) V V Sustainable urban mobility plans (2024) Number of sustainable urban mobility plans (2024) Low emission zones (2024) 17 cities Adaptation and Resilience ND-GAIN Index (2022) 70,30 Vulnerability score for infrastructure (2022) 0.22

*	Walking

Walkability Score (2024) 0.81 National walking strategies (2024)



- ▶ Increase the percentage of short journeys in towns and cities that are walked or cycled from 41% in 2018
- ▶ Increase walking activity, where walking activity is measured as the total number of walking stages per person per year, to 365 stages per person per year in 2025
- ▶ Increase the percentage of children aged 5 to 10 who usually walk to school from 49% in 2014 to 55% in

## **Cycling**

Cycling infrastructure in capital (2022)	400 km
Percent near protected bikeways (2024)	28%
Bike sharing systems (2024)	49
National cycling strategies (2024)	•
<b>∅</b> Target	



▶ Double cycling from 0.8 billion stages in 2013 to 1.6 billion stages in 2025

### **Public Transport**

Bus rapid transit (2024)	135 km of total length in 7 cities
Bus rapid transit daily passenger volume (2024)	101 559 passengers per day
Urban rail (LRT, metro, tram) (2024)	818 km in 10 cities
Proportion of population that has convenient access to public transport (2020) (SD611.2	95.55%

### Intercity Rail

The state of the s	
Rail network (2021)	16178.56 km
Rail travel activity (2020)	24188.47 million passenger-km
Rail freight activity (2020)	15 212.12 million ton-km
High-speed rail (2022)	113 km
High-speed rail travel activity (2022)	3 435.8 million passenger-km
National plans for passenger and freight rail expansion (2024)	



- ▶ To invest GBP 96 billion for rail construction and upgrades
- ▶ To electrify 75% of all rail lines, allowing to remove diesel-only trains from the network by 2040

This fact sheet is part of the SLOCAT Transport, Climate and Sustainability Global Status Report –  $4^{\text{th}}$  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 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**.

## List of acronyms

List of acronyms
GDP Gross-domestic product
HDV Heavy-dury vehicle
ICE Internal combustion engine
KMM Klowatt-hour
LDV Light-duty vehicle
LRT Light-rail bransit
DDC Nationally determined contribution
PST Primary, secondary or tertiary roads

Twenty-foot Equivalent Unit TEU Inverty-lock Equivalent Unit Funds Makins Environment Programme UNFCCC United Nations Framework Convention on Climate Change

VNR Voluntary national review of the Sustainable Developiment Goals

WLTP Worldwide harmonised light vehicles test.

procedure

Road Transport	
Total road vehicles in use per 1,000 people (2020)	630.2
Road vehicle fleet growth (from 2015 to 2020)	10.95%
Rural Access Index (2019) SDG 9.1	
Diesel prices (2022)	1.67 USD per litre
Gasoline prices (2022)	1.88 USD per litre
→ Aviation	
Air passengers carried (2021)	26.6 million people
Air freight activity (2021)	4 097.1 million ton-km
Carbon-accredited airports (2023)	24 airports
of which carbon neutral:	8 airports
<b>a</b> Shipping	
Logistics Performance Index (2023)	3.7
Liner shipping connectivity index (Q4 2024)	90.0
Container port traffic (2020)	8 692 260.0 TEU
Transport Energy Sources	
Biofuel blend overall mandate (2023)	10.1%
Biofuel blend biodiesel mandate (2023)	7.0%
Biofuel blend ethanol mandate (2023)	10.0%
Carbon intensity of electricity (2023)	228.25 gCO <sub>2</sub> /kWh
Renewable energy (biofuels and electricity) share in transport (2022) SDG 721	7.6% of total transport energy consumption
Biofuels (2022)	5.7% of total transport energy consumption
Electricity (2022)	1.9% of total transport energy consumption
Targeted renewable power share	100%
var Vehicle Technologies	

### **Vehicle Technologies**

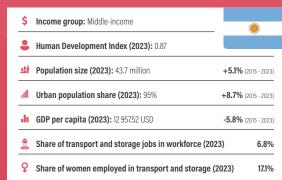
Emission standards for LDVs (2024)	Euro 4 and above
CO <sub>2</sub> emissions performance for passenger cars (2024)	90 g CO <sub>2</sub> /km in 2023
Targeted CO <sub>2</sub> emissions performance (2024)	22 g CO <sub>2</sub> /km by 2030
Regulatory environment ranking on used vehicles (2024)	
Electric vehicles stock for passenger cars (2024)	1400 000 vehicles
Share of electric vehicles in car sales (2024)	28%
ICE phase-out targets	<b>⋖</b> (2035)
Electric vehicles stock for vans (2024)	89 000 vehicles
Electric vehicles stock for trucks (2024)	4300 vehicles

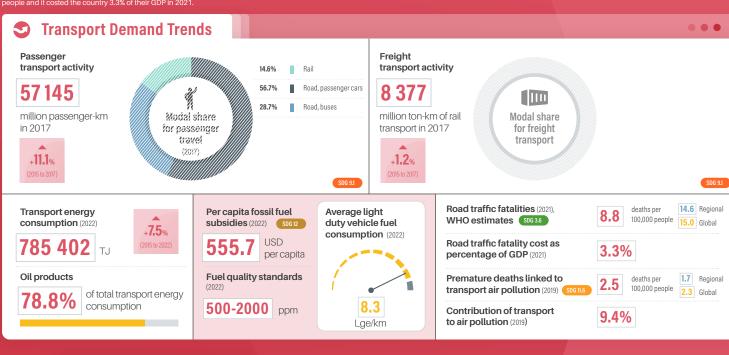


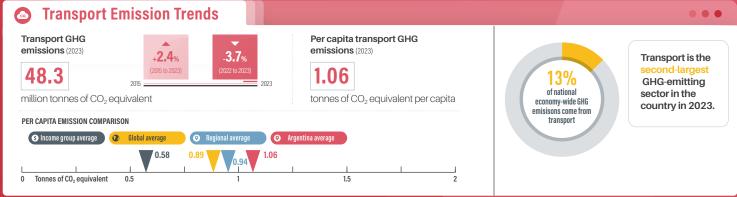
# <u>Argentina</u>

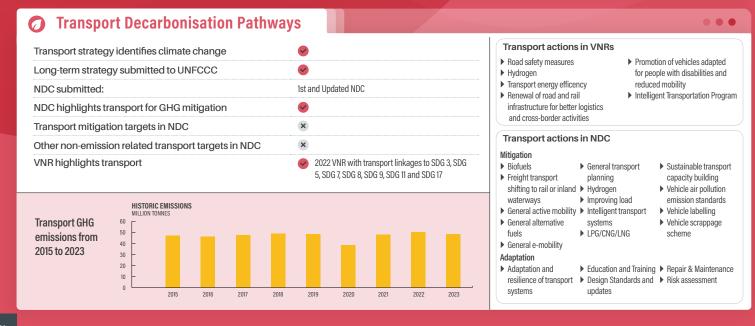
Argentina envisions a wide array of actions to improve their transport system. Recent data on transport activity is missing, but the data from 2015 to 2017 shows that passenger travel demand increased by 11.13% between 2015 and 2017. Passenger cars represented 56.7% of the national modal share in 2017. Transport was the second-largest source of national GHG emissions, accounting for 13.2% of total emissions in 2023. While transport emissions grew by 2.4% from 2015 to 2023, they declined by 3.7% from 2022 to 2023. Concerning sustainability, transport contributes a very high share of 9.4% to national air pollutant emissions in 2019, causing 2.53 premature deaths per 100,000 people in Argentina in 2019. Road traffic fatalities accounted for 8.8 deaths per 100,000 people and it costed the country 3.3% of their GDP in 2021.

Policies in NDCs and VNRs reflect a comprehensive approach, covering many actions to mitigate emissions, raise resilience, increase road safety and support sustainability. However, challenges persisted, including a high motorisation rate of 311 vehicles per 1,000 people in 2020 and high per capita fossil fuel subsidies of USD 555.73 per capita in 2022. Renewable energy, including biofuels and electricity, accounted for 6.5% of Argentina's transport energy consumption, whereas the carbon intensity of its electricity remained relatively high for the region, at 354 gCC<sub>2</sub>/kWh in 2023. There are no targets to reduce CO<sub>2</sub> emissions performance for passenger cars nor to increase the electric vehicle stock.









COUNTRY FACT SHEET | ARGENTINA



## Policy Areas: Indicators and Targets

Integrated Transport Planning	
National urban mobility framework (2024)	•
Sustainable urban mobility plans (2024)	•
Number of sustainable urban mobility plans (2024)	2 cities
Low emission zones (2022)	

ND-GAIN Index (2022)	50.21
Vulnerability score for infrastructure (2022)	0.14

## ↑ Walking

Walkability Score (2024)	0.77
National walking strategies (2024)	(Outdated)

## **%** Cycling

Cycling infrastructure in capital (2022)	300 km
Percent near protected bikeways (2024)	13%
Bike sharing systems (2024)	15
National cycling strategies (2024)	×

## **₽** Public Transport

Bus rapid transit (2024)	122 km of total length in 5 cities
Bus rapid transit daily passenger volume (2024)	1563 000 passengers per day
Urban rail (LRT, metro, tram) (2024)	74.5 km in 2 cities
Proportion of population that has convenient access to public transport (2020)  SDG 11.2	57.16%

### Intercity Rail

Rail network (2019)	17 866 km
Rail travel activity (2017)	8 360.782 million passenger-km
Rail freight activity (2017)	8 377 million ton-km
High-speed rail	
High-speed rail travel activity	
National plans for passenger and freight rail expansion (2024)	•



▶ Modernise and expand the rail network (including rail lines, stations and new rolling stock), reactivate former rail lines

Road vehicle fleet growth (from 2015 to 2020)  Rural Access Index (2019)  Diesel prices (2022)  O.76 USD per litre  Gasoline prices (2022)  O.76 USD per litre  Aviation  Air passengers carried (2021)  Air freight activity (2021)  Air freight activity (2021)  Air freight activity (2021)  Air freight activity (2021)  Carbon-accredited airports (2023)  of which carbon neutral:  none  Shipping  Logistics Performance Index (2023)  Liner shipping connectivity index (04 2024)  Container port traffic (2020)  Transport Energy Sources  Biofuel blend overall mandate (2023)  Biofuel blend biodiesel mandate (2023)  Carbon intensity of electricity (2023)  Sasage Goz,/kWh  Renewable energy (biofuels and electricity)  share in transport (2022)  Carbon intensity of electricity (2022)  Biofuels (2022)  Carbon intensity of electricity (2023)  Biofuels (2022)  Carbon intensity of electricity (2023)  Carbon intensity of electricity (2023)  Biofuels (2022)  Carbon intensity of electricity (2023)  Carbon intensity of electricity (2024)  Electricity (2022)  Carbon intensity of electricity (2024)  Electricity (2022)  Carbon intensity of electricity (2023)  Carbon intensity of electric vehicles intensity of electricity (2023)  Carbon intensity of electricity (2023)  Carbon intensity of electricity (2023)  Carbon intensity of electricity (2024)  Carbon intensity of elect	Road Transport	
Paral Access Index (2019)    Diesel prices (2022)    O76 USD per litre    Gasoline prices (2022)    O93 USD per litre     Aviation  Air passengers carried (2021)    Air freight activity (2021)    Ba3 million ton-km    Carbon-accredited airports (2023)    of which carbon neutral:    none    Shipping  Logistics Performance Index (2023)    Liner shipping connectivity index (Q4 2024)    Container port traffic (2020)    Pransport Energy Sources  Biofuel blend overall mandate (2023)    Biofuel blend biodiesel mandate (2023)    Carbon intensity of electricity (2023)    Biofuel blend ethanol mandate (2023)    Carbon intensity of electricity (2023)    Biofuel sco22)    Carbon intensity of electricity (2023)    Biofuels (2022)    Carbon intensity of electricity (2023)    Carbon intensity of elect	Total road vehicles in use per 1,000 people (2020)	310.9
Diesel prices (2022)  Gasoline prices (2022)  O.76 USD per litre  Aviation  Air passengers carried (2021)  Air freight activity (2021)  Carbon-accredited airports (2023)  of which carbon neutral:  none  Shipping  Logistics Performance Index (2023)  Liner shipping connectivity index (04 2024)  Container port traffic (2020)  1990008.0 TEU  Transport Energy Sources  Biofuel blend overall mandate (2023)  Biofuel blend overall mandate (2023)  Carbon intensity of electricity (2023)  Biofuel blend ethanol mandate (2023)  Carbon intensity of electricity (2023)  Biofuel se energy (biofuels and electricity)  share in transport (2022)  Carbon intensity (2022)  Consumption  Biofuels (2022)  Consumption  Carbon intensity (2022)  Consumption  Carbon intensity (2022)  Consumption  Carbon intensity of electricity (2023)  Carbon intensity of electricity (2024)  Carbon intensity of electrici	Road vehicle fleet growth (from 2015 to 2020)	2.10%
Gasoline prices (2022)  Aviation  Air passengers carried (2021)  Air freight activity (2021)  Bas million people  Air freight activity (2021)  Bas million ton-km  Carbon-accredited airports (2023)  of which carbon neutral:  none  Shipping  Logistics Performance Index (2023)  Liner shipping connectivity index (Q4 2024)  Container port traffic (2020)  1990 008.0 TEU  Transport Energy Sources  Biofuel blend verall mandate (2023)  Biofuel blend ethanol mandate (2023)  Carbon intensity of electricity (2023)  Biofuel blend ethanol mandate (2023)  Carbon intensity of electricity (2023)  Biofuel senergy (biofuels and electricity)  share in transport (2022)  Biofuels (2022)  Carpon intensity of electricity (2023)  Electricity (2022)  Carpon intensity of electricity (2023)  Carpon intensity of electricity (2023)  Electricity (2022)  Carpon intensity of electricity (2023)  Electricity (2023)  Electricity (2024)  Electricity (2024)  Electricity (2024)  Electricity (2024)  Electricity (2024)	Rural Access Index (2019) SDG 9.1	73.1 RAI PST
Air passengers carried (2021) 6.7 million people Air freight activity (2021) 88.3 million ton-km  Carbon-accredited airports (2023) 12 airports of which carbon neutral: none  Shipping  Logistics Performance Index (2023) 2.8  Liner shipping connectivity index (Q4 2024) 36.0  Container port traffic (2020) 1990 008.0 TEU  Transport Energy Sources  Biofuel blend overall mandate (2023) 7.5%  Biofuel blend dethanol mandate (2023) 12.0%  Carbon intensity of electricity (2023) 353.96 gCO₂/kWh  Renewable energy (biofuels and electricity) 6.5% of total transport energy consumption  Biofuels (2022) 6.4% of total transport energy consumption  Electricity (2022) 0.9% of total transport energy consumption  Targeted renewable power share 26%  Liner Shipping  Euro 4 and above  CO2 emissions performance for passenger cars (2024) Parageted CO₂ emissions performance (2024) Regulatory environment ranking on used vehicles (2024) Banned  Electric vehicles stock for passenger cars (2024) Passenger cars (2024) Banned  Electric vehicles stock for passenger cars (2024) Passenger cars (20	Diesel prices (2022)	0.76 USD per litre
Air passengers carried (2021)  Air freight activity (2021)  Bis 3 million ton-km  Carbon-accredited airports (2023)  12 airports  of which carbon neutral:  none  Shipping  Logistics Performance Index (2023)  Liner shipping connectivity index (Q4 2024)  Container port traffic (2020)  1990 008.0 TEU  Transport Energy Sources  Biofuel blend overall mandate (2023)  Biofuel blend dethanol mandate (2023)  Carbon intensity of electricity (2023)  Carbon intensity of electricity (2023)  Biofuels (2022)  Carbon intensity of transport (2022)  Carbon intensity of transport (2022)  Carbon intensity of electricity (2023)  Carbon intensity of electricity (2023)  Biofuels (2022)  Carbon intensity of electricity (2023)  Carbon intens	Gasoline prices (2022)	0.93 USD per litre
Air freight activity (2021)  Carbon-accredited airports (2023)  of which carbon neutral:  none  Shipping  Logistics Performance Index (2023)  Liner shipping connectivity index (Q4 2024)  Container port traffic (2020)  1990 008.0 TEU  Transport Energy Sources  Biofuel blend overall mandate (2023)  Biofuel blend biodiesel mandate (2023)  Carbon intensity of electricity (2023)  Renewable energy (biofuels and electricity)  share in transport (2022)  Biofuels (2022)  Carbon intensity of electricity (2023)  Biofuel blend energy (biofuels and electricity)  share in transport (2022)  Carbon intensity of electricity (2023)  Biofuels (2022)  Electricity (2022)  Consumption  Targeted renewable power share  26%  Covenius intension standards for LDVs (2024)  Euro 4 and above  Covenius intensions performance for passenger cars (2024)  Targeted Covenius intensions performance (2024)  Regulatory environment ranking on used vehicles (2024)  Banned  Electric vehicles stock for passenger cars (2024)  Share of electric vehicles in car sales (2024)	<b>→</b> Aviation	
Carbon-accredited airports (2023)  of which carbon neutral:  none  Shipping  Logistics Performance Index (2023)  Liner shipping connectivity index (Q4 2024)  36.0  Container port traffic (2020)  1990 008.0 TEU  Transport Energy Sources  Biofuel blend overall mandate (2023)  Biofuel blend biodiesel mandate (2023)  Carbon intensity of electricity (2023)  Share in transport (2022)  Biofuels (2022)  Carbon intensity of electricity (2023)  Biofuels (2022)  Carbon intensity of electricity (2023)  Biofuels (2022)  Carbon intensity of electricity (2023)  Carbon intensity of electricity (2024)  Carbon intens	Air passengers carried (2021)	6.7 million people
Shipping  Logistics Performance Index (2023) 2.8  Liner shipping connectivity index (Q4 2024) 36.0  Container port traffic (2020) 1990 008.0 TEU  Transport Energy Sources  Biofuel blend overall mandate (2023) −  Biofuel blend biodiesel mandate (2023) 12.0%  Carbon intensity of electricity (2023) 353.96 gCO₂/kWh  Renewable energy (biofuels and electricity) 6.5% of total transport energy share in transport (2022) 10.0%  Electricity (2022) 10.0% of total transport energy consumption  Electricity (2022) 10.0% of total transport energy consumption  Targeted renewable power share 26%  Emission standards for LDVs (2024) Euro 4 and above  CO2 emissions performance for passenger cars (2024) −  Targeted CO₂ emissions performance (2024) Regulatory environment ranking on used vehicles (2024) Banned  Electric vehicles stock for passenger cars (2024) −  Share of electric vehicles in car sales (2024) −  Share of electric vehicles in car sales (2024) −  Share of electric vehicles in car sales (2024) −	Air freight activity (2021)	88.3 million ton-km
Logistics Performance Index (2023)  Liner shipping connectivity index (04 2024)  36.0  Container port traffic (2020)  1990 008.0 TEU  Transport Energy Sources  Biofuel blend overall mandate (2023)  Biofuel blend biodiesel mandate (2023)  Carbon intensity of electricity (2023)  Renewable energy (biofuels and electricity) share in transport (2022)  Biofuels (2022)  Carbon intensity of electricity (2023)  Carbon intensity of electricity (2023)  Biofuels (2022)  Consumption  Carbon intensity of electricity (2023)  Carbon intensity of electricity (2023)  Carbon intensity of electricity (2023)  Biofuel blend ethanol mandate (2023)  Carbon intensity of electricity (2024)  Carbon intensity of electricity (2023)  Carbon intensity of electricity (2024)  Carbon intensity of electricity (2023)  Carbon intensity of electricity (2024)  Carbon intensity of electricity (2023)  Carbon intensity of electricity (2023)  Carbon intensity of electricity (2023)  Carbon intensity of electric (2024)  Carbon intensity	Carbon-accredited airports (2023)	12 airports
Liner shipping connectivity index (Q4 2024)  Liner shipping connectivity index (Q4 2024)  Container port traffic (2020)  1990 008.0 TEU  Transport Energy Sources  Biofuel blend overall mandate (2023)  Biofuel blend biodiesel mandate (2023)  Carbon intensity of electricity (2023)  Renewable energy (biofuels and electricity) share in transport (2022)  Biofuels (2022)  Electricity (2022)  Carbon intensity of electricity (2023)  Carbon intensity of electricity (2023)  Biofuels (2022)  Carbon intensity of electricity (2023)  Biofuels (2022)  Carbon intensity of electricity (2023)  Biofuels (2022)  Carbon intensity of electricity (2023)  Carbon intensity of electricity (2023)  Biofuels (2022)  Carbon intensity of electricity (2023)  Carbon intensity of electricity (2024)  Carbon intensity of electrici	of which carbon neutral:	none
Liner shipping connectivity index (Q4 2024)  Container port traffic (2020)  1990 008.0 TEU  Transport Energy Sources  Biofuel blend overall mandate (2023)  Biofuel blend biodiesel mandate (2023)  Carbon intensity of electricity (2023)  Renewable energy (biofuels and electricity) share in transport (2022)  Biofuels (2022)  Electricity (2022)  Carbon intensity of electricity (2023)  Carbon intensity of electricity (2023)  Source  Consumption  Carbon intensity of electricity (2023)  Source  Consumption  Consumpti	Shipping	
Transport Energy Sources  Biofuel blend overall mandate (2023) —  Biofuel blend biodiesel mandate (2023) 7.5%  Biofuel blend ethanol mandate (2023) 12.0%  Carbon intensity of electricity (2023) 353.96 gCO <sub>2</sub> /kWh  Renewable energy (biofuels and electricity) 6.5% of total transport energy consumption  Biofuels (2022) 6.4% of total transport energy consumption  Electricity (2022) 0.1% of total transport energy consumption  Targeted renewable power share 26%  Emission standards for LDVs (2024) Euro 4 and above  CO2 emissions performance for passenger cars (2024) —  Targeted CO <sub>2</sub> emissions performance (2024) No target set  Regulatory environment ranking on used vehicles (2024) Banned  Electric vehicles stock for passenger cars (2024) —  Share of electric vehicles in car sales (2024) —	Logistics Performance Index (2023)	2.8
Biofuel blend overall mandate (2023) —  Biofuel blend biodiesel mandate (2023) 75%  Biofuel blend ethanol mandate (2023) 12.0%  Carbon intensity of electricity (2023) 353.96 gC0₂/kWh  Renewable energy (biofuels and electricity) 6.5% of total transport energy consumption  Biofuels (2022) 606.721 6.4% of total transport energy consumption  Electricity (2022) 0.1% of total transport energy consumption  Targeted renewable power share 26%  Emission standards for LDVs (2024) Euro 4 and above  CO2 emissions performance for passenger cars (2024) —  Targeted CO₂ emissions performance (2024) No target set  Regulatory environment ranking on used vehicles (2024) —  Share of electric vehicles in car sales (2024) —  Share of electric vehicles in car sales (2024) —	Liner shipping connectivity index (Q4 2024)	36.0
Biofuel blend overall mandate (2023)  Biofuel blend biodiesel mandate (2023)  Biofuel blend ethanol mandate (2023)  Carbon intensity of electricity (2023)  Renewable energy (biofuels and electricity) share in transport (2022)  Biofuels (2022)  Case of total transport energy consumption  6.4% of total transport energy consumption  Case of total transport energy consumption	Container port traffic (2020)	1990 008.0 TEU
Biofuel blend biodiesel mandate (2023)  Biofuel blend ethanol mandate (2023)  Carbon intensity of electricity (2023)  Renewable energy (biofuels and electricity) share in transport (2022)  Biofuels (2022)  Electricity (2022)  Carbon intensity of electricity (2023)  Biofuels energy (biofuels and electricity) share in transport energy consumption  Carbon fotal transport energy consumption  Electricity (2022)  Carbon intensity of electricity (2022)  Carbon intensity of electricity (2022)  Carbon intensity of electricity (2023)  Electricity (2022)  Carbon intensity of electricity (2023)  Carbon intensity of electricity (2023)  Electricity (2022)  Carbon intensity of electricity (2023)  Carbon intensity of electricity (2023)  Carbon intensity of electricity (2023)  Carbon intensity of electricity (2024)  Electricity (2022)  Carbon intensity of electricity (2023)  Carbon intensity of electricity (2024)  Carbon intensity of electricity (2024)  Euro 4 and above  Carbon intensity of electricity (2024)  Carbon intensity of electricity (2024)  Euro 4 and above  Carbon intensity of electricity (2024)  Carbon intensity of electricity (2023)  Carbon intensity of electricity (2024)  Carbon intensity of electricity (2023)  Carbon intensity of electricity (2024)  Carbon intensity of electricity (2023)  Carbon intensity of electricity (2024)  Carbon	Transport Energy Sources	
Biofuel blend ethanol mandate (2023)  Carbon intensity of electricity (2023)  Renewable energy (biofuels and electricity) share in transport (2022)  Biofuels (2022)  Electricity (2022)  Consumption  6.4% of total transport energy consumption  0.1% of total transport energy consumption  Targeted renewable power share  26%  Emission standards for LDVs (2024)  Euro 4 and above  CO2 emissions performance for passenger cars (2024)  Targeted CO <sub>2</sub> emissions performance (2024)  Regulatory environment ranking on used vehicles (2024)  Electric vehicles stock for passenger cars (2024)  Share of electric vehicles in car sales (2024)  —  Share of electric vehicles in car sales (2024)  —	Biofuel blend overall mandate (2023)	
Carbon intensity of electricity (2023)  Renewable energy (biofuels and electricity) share in transport (2022)  Biofuels (2022)  Electricity (2022)  Consumption  6.5% of total transport energy consumption  6.4% of total transport energy consumption  0.1% of total transport energy consumption  Consumption  Consumption  Targeted renewable power share  26%  Emission standards for LDVs (2024)  Euro 4 and above  CO2 emissions performance for passenger cars (2024)  Targeted CO2 emissions performance (2024)  Regulatory environment ranking on used vehicles (2024)  Electric vehicles stock for passenger cars (2024)  Share of electric vehicles in car sales (2024)  —	Biofuel blend biodiesel mandate (2023)	7.5%
Renewable energy (biofuels and electricity) share in transport (2022) (306.721) 6.5% of total transport energy consumption  Biofuels (2022) 6.4% of total transport energy consumption  Consumption 0.1% of total transport energy consumption  Consumption 2.6%  Consumption 2.6%  Consumption 2.6%  Euro 4 and above 2.6%  Consumption 2.6%  Euro 4 and above 3.6%  Consumption 2.6%  Euro 4 and above 3.6%  Consumption 2.6%  Euro 4 and above 3.6%  Consumption 3.6%  Euro 4 and above 3.6%  Euro 5 and 5 and 5 and 5 and	Biofuel blend ethanol mandate (2023)	12.0%
share in transport (2022) S06721 consumption  Biofuels (2022) 6.4% of total transport energy consumption  Electricity (2022) 0.1% of total transport energy consumption  Targeted renewable power share 26%  Emission standards for LDVs (2024) Euro 4 and above  C02 emissions performance for passenger cars (2024) —  Targeted C02 emissions performance (2024) No target set  Regulatory environment ranking on used vehicles (2024) Banned  Electric vehicles stock for passenger cars (2024) —  Share of electric vehicles in car sales (2024) —	Carbon intensity of electricity (2023)	353.96 gCO <sub>2</sub> /kWh
Electricity (2022)  Electricity (2022)  Targeted renewable power share  26%  Wehicle Technologies  Emission standards for LDVs (2024)  Euro 4 and above  C02 emissions performance for passenger cars (2024)  Targeted C0 <sub>2</sub> emissions performance (2024)  Regulatory environment ranking on used vehicles (2024)  Electric vehicles stock for passenger cars (2024)  Share of electric vehicles in car sales (2024)  —	Renewable energy (biofuels and electricity) share in transport (2022) SDG721	
Targeted renewable power share  26%  Wehicle Technologies  Emission standards for LDVs (2024)  Euro 4 and above  C02 emissions performance for passenger cars (2024)  Targeted C02 emissions performance (2024)  No target set  Regulatory environment ranking on used vehicles (2024)  Electric vehicles stock for passenger cars (2024)  Share of electric vehicles in car sales (2024)	Biofuels (2022)	1 07
Emission standards for LDVs (2024)  Euro 4 and above  C02 emissions performance for passenger cars (2024)  Targeted C0 <sub>2</sub> emissions performance (2024)  Regulatory environment ranking on used vehicles (2024)  Electric vehicles stock for passenger cars (2024)  Share of electric vehicles in car sales (2024)	Electricity (2022)	
Emission standards for LDVs (2024)  C02 emissions performance for passenger cars (2024)  Targeted C0 <sub>2</sub> emissions performance (2024)  Regulatory environment ranking on used vehicles (2024)  Electric vehicles stock for passenger cars (2024)  Share of electric vehicles in car sales (2024)  —	Targeted renewable power share	26%
C02 emissions performance for passenger cars (2024)  Targeted C0 <sub>2</sub> emissions performance (2024)  No target set  Regulatory environment ranking on used vehicles (2024)  Electric vehicles stock for passenger cars (2024)  Share of electric vehicles in car sales (2024)	<b>ĕ</b> Vehicle Technologies	
Targeted CO <sub>2</sub> emissions performance (2024)  Regulatory environment ranking on used vehicles (2024)  Banned  Electric vehicles stock for passenger cars (2024)  Share of electric vehicles in car sales (2024)	Emission standards for LDVs (2024)	Euro 4 and above
Regulatory environment ranking on used vehicles (2024)  Banned  Electric vehicles stock for passenger cars (2024)  Share of electric vehicles in car sales (2024)	CO2 emissions performance for passenger cars (2024)	
Electric vehicles stock for passenger cars (2024) –  Share of electric vehicles in car sales (2024) –	Targeted CO <sub>2</sub> emissions performance (2024)	No target set
Share of electric vehicles in car sales (2024)	Regulatory environment ranking on used vehicles (2024)	Banned
	Electric vehicles stock for passenger cars (2024)	
ICE phase-out targets	Share of electric vehicles in car sales (2024)	
	ICE phase-out targets	×

This fact sheet is part of the SLOCAT Transport, Climate and Sustainability Global Status Report –  $4^{\text{th}}$  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.

List of acronyms
GDP Gross-domestic product
Havy-duty vehicle
IDE Internal combustion engine
KWh Klowatt-hour
LUV Light-duty shicle
LRT Light-rall transit
NDC Nationally determined contribution
PST Primary, secondary or tertiary roads













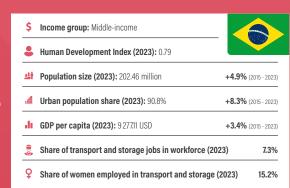


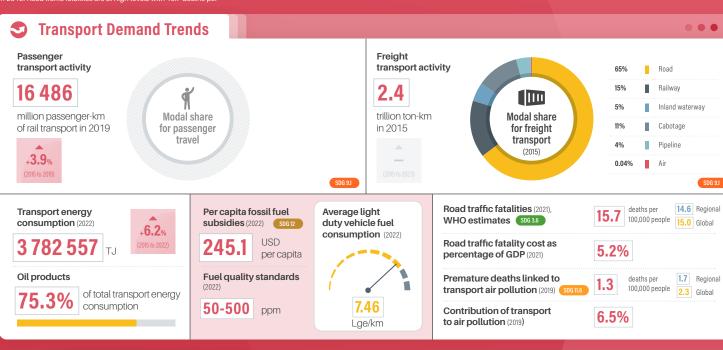
# Brazi

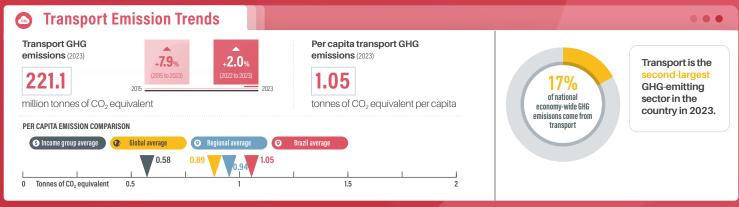
Brazil put strong efforts in advancing sustainable, zero-emission transport through prioritising urban transport improvements and low-carbon fuels. However, transport sector was the second-largest contributor to Brazil's emissions, accounting for 17% of national GHG emissions in 2023. Transport GHG emissions grew by nearly 8% from 2015 to 2023. There is scarce data on passenger transport activity, but freight transport activity data indicated dominance of road freight in 2019. Brazil leads in biofuel use (21.3% of total transport energy consumption in 2022) with atheroal and biodicials. transport energy consumption in 2022), with ethanol and biodiesel mandates at 27% and 10%, respectively. Beyond climate impacts, transport accounted for 6.5% of national air pollutant emissions in

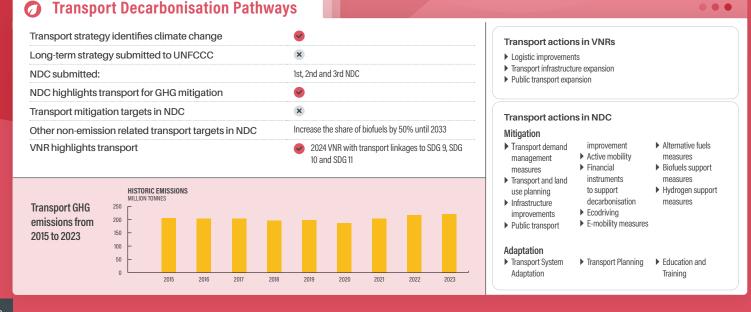
100,000 people and accounted with 5.2% a significant share of the country's GDP in 2021.

Brazil's third NDC sets out both transport mitigation and adaptation measures. Especially on adaptation and resilience, efforts are needed because assessments show a high vulnerability and a low adaptability of infrastructure to the acester in the process of editors. transport, walking and cycling are in progress. Already 74% of the urban population has conveninent access to public transport. National policies support rail expansion with the target to double









COUNTRY FACT SHEET | BRAZIL



## Policy Areas: Indicators and Targets





品 <u>品</u>	<b>Integrated Transport Planning</b>	
Nati	onal urban mobility framework (2024)	

Sustainable urban mobility plans (2024) Number of sustainable urban mobility plans (2022) 396 cities (First LEZ approved in 2022) Low emission zones (2022) for Rio de Janeiro)

😽 Adaptation and Resilience

ND-GAIN Index (2022) 49.52 Vulnerability score for infrastructure (2022) 0.12

**↑** Walking

Walkability Score (2024) 0.61 (In progress)

**6** Cycling

National walking strategies (2024)

Cycling infrastructure in capital (2022) 636 km Percent near protected bikeways (2024) 6% Bike sharing systems (2024) 30 National cycling strategies (2024) (In progress)



- ▶ To make cycling an efficient and healthy means of transport.
- ▶ Support local governments in the deployment of bicycle lanes, public bicycles and user
- ▶ To promote the integration of the bicycle and public transport.

### **₽** Public Transport

Bus rapid transit (2024) 922 km ot total length in 27 cities Bus rapid transit daily passenger volume (2024) 8 824 386 passengers per day Urban rail (LRT, metro, tram) (2024) 733 km in 9 cities Proportion of population that has convenient access to 74.16% public transport (2020)

#### Intercity Rail

Rail network (2007)	32 622 km
Rail travel activity (2019)	16 486.36 million passenger-km
Rail freight activity (2007)	9 393.5 million ton-km
High-speed rail	
High-speed rail travel activity	
National plans for passenger and freight rail expansion (2024)	•



▶ To increase rail's modal share from the current 17.7% to 34.6%

Road Transport
Total road vehicles in use per 1,000 people (2020)
Road vehicle fleet growth (from 2015 to 2020)

Rural Access Index (2019) SDG 9.1 65.5 RAI PST Diesel prices (2022) 1.07 USD per litre

219.7

6.97%

Gasoline prices (2022) 1.11 USD per litre

#### Aviation

Air passengers carried (2021) 61.9 million people Air freight activity (2021) 1294.5 million ton-km Carbon-accredited airports (2023) 8 airports of which carbon neutral: none

## Shipping

Logistics Performance Index (2023) 3.2 39.7 Liner shipping connectivity index (Q4 2024) Container port traffic (2020) 10 376 571.0 TEU

## Transport Energy Sources

10.0% Biofuel blend biodiesel mandate (2023) Biofuel blend ethanol mandate (2023) 27.0% Carbon intensity of electricity (2023) 96.40 gCO<sub>2</sub>/kWh Renewable energy (biofuels and electricity) 21.6% of total transport energy share in transport (2022) SDG 7.2.1 consumption 21.3% of total transport energy Biofuels (2022) consumption 0.3% of total transport energy Electricity (2022) consumption Targeted renewable power share 23%

## Vehicle Technologies

Emission standards for LDVs (2024)	Euro 4 and above
CO <sub>2</sub> emissions performance for passenger cars (2024)	138 g CO <sub>2</sub> /km in 2017
Targeted CO <sub>2</sub> emissions performance (2024)	122 g CO <sub>2</sub> /km by 2022
Regulatory environment ranking on used vehicles (2024)	Banned
Electric vehicles stock for passenger cars (2024)	94000 vehicles
Share of electric vehicles in car sales (2024)	6.4 %
ICE phase-out targets	×
Electric vehicles stock for vans (2024)	3 800 vehicles
Electric vehicles stock for trucks (2024)	

This fact sheet is part of the SLOCAT Transport, Climate and Sustainability Global Status Report –  $4^{\text{th}}$  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 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**.

UNEP United Nations Environment Programme
UNFCCC United Nations Framework Convention or Worldwide harmonised light vehicles test













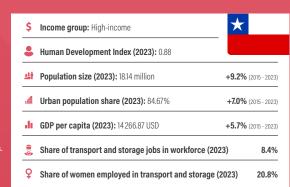


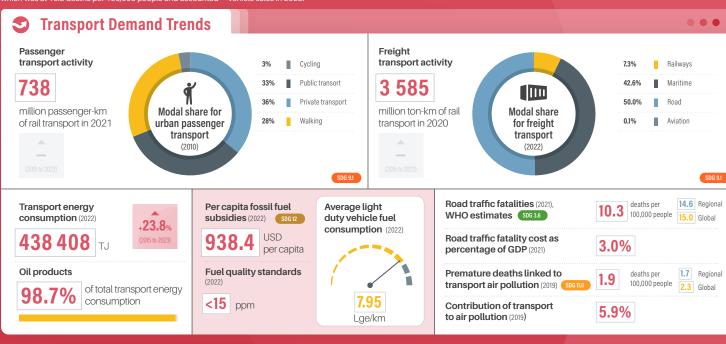
# Chile

Chile's transport sector had put in place the necessary frameworks to support sustainable, low-carbon transport. However, Chile has very high private motorisation levels with 245.7 vehicles per 1,000 people in 2020. Transport was the largest contributor to national greenhouse gas emissions, accounting for 26.7% of the country's total emissions in 2023. Transport emissions increased significantly by 26.5% from 2015 to 2023, and the per capita transport emissions (1.7 tonnes CO.) are nearly double the global average. Beyond climate impacts, transport accounted for 5.9% of national air pollutant emissions in 2019. The high dependence on private motorisation resulted in high levels of road traffic fatalities, which was at 10.3 deaths per 100,000 people and accounted

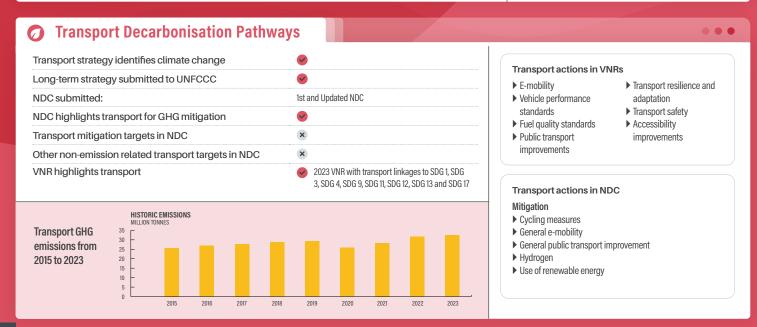
for 3% of the country's GDP in 202

Chile has a very high urban population share (84.67%), and urban transport is dominated by private transport (36%), and public transport accounts for 33% of passenger travel. The country has ambitious transport policies, including a national urban mobility framework, low-emission zones, and rail mode-spcific plans to triple rail passenger numbers by 2027 and transporting an additional 6 billion tonnes of goods. Chile has also set an ICE phase-out target for 2035. However, renewable energy use in transport remains low at 1.2%, the carbon intensity of electricity was high at 301.9 gCO<sub>2</sub>/kWh in 2023 and electric vehicles compromised just 0.3% of the vehicle sales in 2023.





#### **Transport Emission Trends** • • • Transport GHG Per capita transport GHG emissions (2023) emissions (2023) 26.6% 2.4% Transport is the 32.5 1.66 **GHG-emitting** of national sector in the million tonnes of CO<sub>2</sub> equivalent tonnes of CO2 equivalent per capita economy-wide GHG country in 2023. emisisons come from PER CAPITA EMISSION COMPARISON transport (\$) Income group average 2.89 0.94 () Tonnes of CO<sub>2</sub> equivalent (),5



COUNTRY FACT SHEET | CHILE



## Policy Areas: Indicators and Targets



Integrated Transport Planning	
National urban mobility framework (2024)	<b>⊗</b>
Sustainable urban mobility plans (2024)	<b>❷</b>
Number of sustainable urban mobility plans (2022)	57 cities
Low emission zones (2022)	<b>②</b>
★ Adaptation and Resilience	
ND-GAIN Index (2022)	60.12
Vulnerability score for infrastructure (2022)	0.23
∱ Walking	
Walkability Score (2024)	0.80
National walking strategies (2024)	⊌
്ര Cycling	
Cycling infrastructure in capital (2022)	36 km
Percent near protected bikeways (2024)	24%
Bike sharing systems (2024)	1
National cycling strategies (2024)	<b>⊗</b>
<b>□</b> Public Transport	
Bus rapid transit (2024)	105 km of total length in 2 cities
Bus rapid transit daily passenger volume (2024)	476 800 passengers per day
Urban rail (LRT, metro, tram) (2024)	192 km in 2 cities
Proportion of population that has convenient access to public transport (2020) SDG 11.2	90.63%
Intercity Rail	
Rail network (2021)	2396 km
Rail travel activity (2021)	738 million passenger-km
Rail freight activity (2020)	3 585.457 million ton-km
High-speed rail	
High-speed rail travel activity	
National plans for passenger and freight rail expansion (2024)	•
Target  ▶ Triple the number of passengers by 2027, from 50 to 150 mil ▶ Transporting an additional 6 billion tonnes of goods by rail	iion a year

Total road vehicles in use per 1,000 people (2020)	245.7
Road vehicle fleet growth (from 2015 to 2020)	6.88%
Rural Access Index (2019) SDG 91	
Diesel prices (2022)	0.83 USD per litre
Gasoline prices (2022)	1.19 USD per litre
<b>★</b> Aviation	
hir passengers carried (2021)	10.3 million people
hir freight activity (2021)	1284.0 million ton-km
Carbon-accredited airports (2023)	1 airports
of which carbon neutral:	none
Shipping	
ogistics Performance Index (2023)	3
iner shipping connectivity index (Q4 2024)	36.3
Container port traffic (2020)	4192 000.0 TEU
Transport Energy Sources	
Biofuel blend overall mandate (2023)	_
Biofuel blend biodiesel mandate (2023)	
Biofuel blend ethanol mandate (2023)	
Carbon intensity of electricity (2023)	301.93 gC0₂/kWh
Renewable energy (biofuels and electricity) Share in transport (2022) SDG 721	1.2% of total transport energy consumption
Biofuels (2022)	
Electricity (2022)	1.2% of total transport energy consumption
argeted renewable power share	100%
vehicle Technologies	
mission standards for LDVs (2024)	Euro 4 and above
CO <sub>2</sub> emissions performance for passenger cars (2024)	157 g CO <sub>2</sub> /km in 2020
argeted CO <sub>2</sub> emissions performance (2024)	81 g CO <sub>2</sub> /km by 2030
degulatory environment ranking on used vehicles (2024)	Banned
Electric vehicles stock for passenger cars (2024)	8 600 vehicles
Share of electric vehicles in car sales (2024)	2.1 %
CE phase-out targets	<b>⊘</b> (2035)
Electric vehicles stock for vans (2024)	
Electric vehicles stock for trucks (2024)	

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. 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 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: Orive Electric

List of acronyms
GDP Gross-domestic product
Havy-duty vehicle
IDE Internal combustion engine
KWh Kllowatt-hour
LUV Light-duty shelic
LRT Light-rail transit
NDC Nationally determined contribution
PST Primary, secondary or tertiary roads

TEU Twenty-foot Equivalent Unit
UNEP United Nations Environment Programme
UNFCCC United Nations Framework Convention on
Climate Change
VNR Voluntary national review of the
Sustainable Developiment Goals
WLIP Worldwide harmonised light wehicles test
procedure







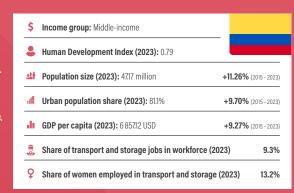


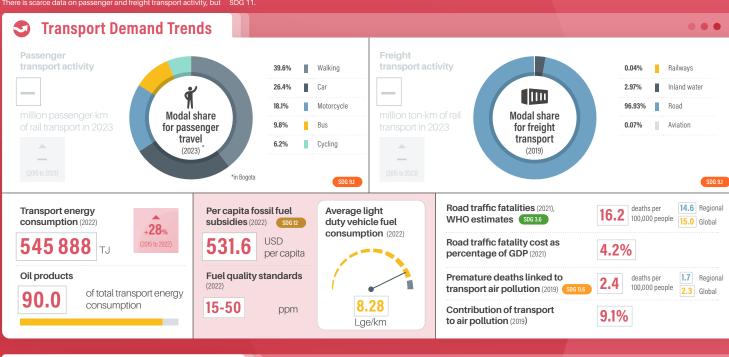


# Colombia

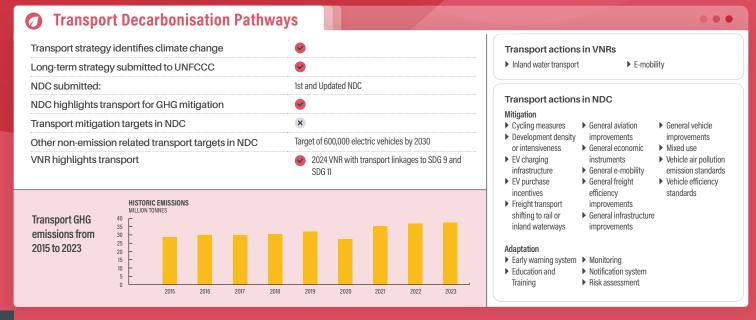
Colombia has strong ambitions on advancing sustainable, zero-emission transport. The NDC and VNR of Colombia reflect a comprehensive set of transport policies. However, as of 2023, transport sector was the second-largest source of greenhouse gas emissions, contributing 16.7% of national emissions. Renewable energy in transport, expressed through biofuels and electricity, accounted for 6.6% of Colombia's transport energy consumption and the carbon intensity of its electricity is very low at 269 gCO\_/ kWh in 2023. Beyond climate-related mattes, transport was responsible for 9.1% of national air pollutant emissions in 2019 which resulted in 2.44 premature deaths per 100,000 people. Road traffic injuries claimed 16.2 lives per 100,000 people and accounted for 4.20% of the country's GDP in 2021.

urban mobility data indicates that walking is the most dominant mode (39.6% modal split), followed by private vehicles (26.40%). Bogotá also has a significant bus rapid transit system which has increased by 14 km since the previous edition of the country fact sheets in 2023. Road freight accounts for 96.9% of goods transport but the country has ambitious plans for rail expansion, with an aim to reduce their logistics costs by 26%, improve productivity and reduce environmental pollution. Fossil fuel subsidies remain high at USD 531.61 per capita, but Colombia's policies, including NDC commitments and urban mobility frameworks, aim to enhance sustainability and resilience in its transport sector, for example the NDC featured a target of 600,000 electric vehicles by 2030. Colombia's 2024 VNR includes transport linkages to SDG 9 and SDG 11.









COUNTRY FACT SHEET | COLOMBIA



## Policy Areas: Indicators and Targets

Integrated Transport Planning	
National urban mobility framework (2024)	❷
Sustainable urban mobility plans (2024)	<b>⊗</b>
Number of sustainable urban mobility plans (2024)	9 cities
Low emission zones (2024)	1 city
M	
Adaptation and Resilience	
ND-GAIN Index (2022)	48.69
Vulnerability score for infrastructure (2022)	0.10

<b>†</b>	Walking

Walkability Score (2024)	0.78
National walking strategies (2024)	<b>✓</b>

## **%** Cycling

Cycling infrastructure in capital (2022)	661 km
Percent near protected bikeways (2024)	28.25%
Bike sharing systems (2024)	21
National cycling strategies (2024)	<b>⋖</b>

## **₽** Public Transport

Bus rapid transit (2024)	241 km of total length in 7 cities
Bus rapid transit daily passenger volume (2024)	2789 996 passengers per day
Urban rail (LRT, metro, tram) (2024)	31 km in 1 city
Proportion of population that has convenient access to public transport (2020) SDG112	83.21%

## Intercity Rail

1	National plans for passenger and freight rail expansion (2024)	<b>⊘</b>
	High-speed rail travel activity (2021)	
	High-speed rail (2021)	
	Rail freight activity (2019)	
	Rail travel activity (2020)	
П	Rail network (2021)	



- ▶ Improve and develop cargo and passenger railway lines
- $\blacktriangleright$  Reduce 26% of the country's logistics costs to improve productivity and reduce environmental pollution

<b>₩</b> Road Transport	
Total road vehicles in use per 1,000 people (2020)	112.5
Road vehicle fleet growth (from 2015 to 2020)	6.14%
Rural Access Index (2019) SDG 9.1	52.9 RAI PST
Diesel prices (2022)	0.47 USD per litre
Gasoline prices (2022)	0.57 USD per litre
→ Aviation	
Air passengers carried (2021)	26.2 million people
Air freight activity (2021)	1605.2 million ton-km
Carbon-accredited airports (2023)	1 airport
of which carbon neutral:	1 airport
Shipping	
Logistics Performance Index (2023)	2.9
Liner shipping connectivity index (Q4 2024)	49.2
Container port traffic (2020)	4 480 900.0 TEU
Transport Energy Sources	
Biofuel blend overall mandate (2023)	_
Biofuel blend biodiesel mandate (2023)	10.0%
Biofuel blend ethanol mandate (2023)	6.0%
Carbon intensity of electricity (2023)	268.97 gCO <sub>2</sub> /kWh
Renewable energy (biofuels and electricity) share in transport (2022) SDG 72.1	6.6% of total transport energy consumption
Biofuels (2022)	6.2% of total transport energy consumption
Electricity (2022)	0.4% of total transport energy consumption
Targeted renewable power share	77%
various Vehicle Technologies	
Emission standards for LDVs (2024)	Euro 4 and above
CO2 emissions performance for passenger cars (2024)	
Targeted CO <sub>2</sub> emissions performance (2024)	No target set
Regulatory environment ranking on used vehicles (2024)	Banned
Electric vehicles stock for passenger cars (2024)	19 000 vehicles
Share of electric vehicles in car sales (2024)	7.4 %
ICE phase-out targets	×
Electric vehicles stock for vans (2024)	
Electric vehicles stock for trucks (2024)	

This fact sheet is part of the SLOCAT Transport, Climate and Sustainability Global Status Report –  $4^{\text{th}}$  Edition. The country fact sheets have been made possible thanks to financial support from the ClimateWorks Foundation. 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 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.















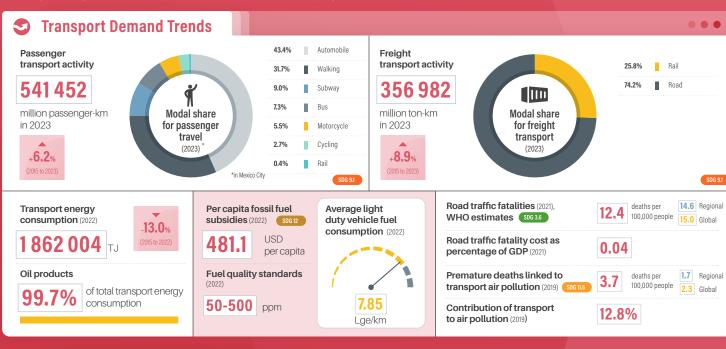


# Mexico

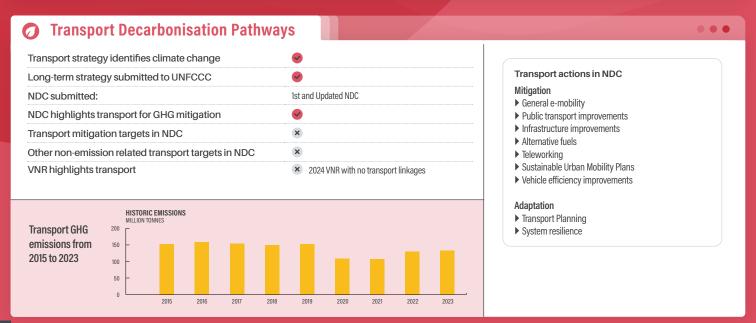
Mexico's transport sector remains heavily reliant on road-based travel, with private automobiles accounting for nearly all half of urban passenger trips in Mexico City (43.4%). Road freight accounted for almost 75% of the country's freight transport activity in 2023. While passenger and freight activity grew by 6.19% and 8.89% respectively since 2015, transport emissions declined by 13.5%. Transport remains the second-largest GHG-emitting sector, contributing 18.6% of national emissions. Renewable energy, including biofuels and electricity, accounted for only 0.3% of Mexico's transport energy consumption and the carbon intensity of its electricity remains high, at 492.3 gCO<sub>2</sub>/kWh in 2023.

Beyond climate impacts, transport is a significant contributor to air pollution, accounting for 12.8% of national air pollutant emissions in 2019. Transport-induced air pollution caused 3.74 premature deaths per 100,000 people in Mexico in 2019. The country recorded 12.4 road traffic fatalities per 100,000 people in 2021 and accounted for 3.80% of the country's GDP in the same year. Policies focus on e-mobility, public transport, and rail freight expansion. However, electric vehicle adoption remains low, with just 1.3% of new car sales in 2023 being electric. Mexico has a national urban mobility framework and low-emission zones, but active transport infrastructure, such as cycling networks, remains limited.

\$	Income group: Middle-income	
•	Human Development Index (2023): 0.79	
±±†	Population size (2023): 121.68 million	<b>+7.2%</b> (2015 - 2023)
.4	Urban population share (2023): 87.4%	<b>+13.1%</b> (2015 - 2023)
di	<b>GDP per capita (2023):</b> 10 269.75 USD	<b>+2.0%</b> (2015 - 2023)
Ð	Share of transport and storage jobs in workforce (202	23) 5.6%
Q	Share of women employed in transport and storage (	2023) 14.9%



#### **Transport Emission Trends** • • • Transport GHG Per capita transport GHG emissions (2023) emissions (2023) 13.5% <sub>+</sub>1.69<sub>9</sub> Transport is the **19%** 132.2 1.02 **GHG-emitting** of national sector in the tonnes of CO<sub>2</sub> equivalent per capita million tonnes of CO2 equivalent economy-wide GHG country in 2023. emisisons come from PER CAPITA EMISSION COMPARISON transport 0.58 Tonnes of CO<sub>2</sub> equivalent



COUNTRY FACT SHEET | MEXICO



## Policy Areas: Indicators and Targets



Integrated Transport Planning	
National urban mobility framework (2024)	✓
Sustainable urban mobility plans (2024)	✓
Number of sustainable urban mobility plans (2022)	1 city, 1 ongoing
Low emission zones (2022)	Similar
★ Adaptation and Resilience	
ND-GAIN Index (2022)	49.63
Vulnerability score for infrastructure (2022)	0.19
<b>†</b> Walking	
Walkability Score (2024)	0.46
National walking strategies (2024)	•
ỗ Cycling	
Cycling infrastructure in capital (2022)	380.7 km
Percent near protected bikeways (2024)	6%
Bike sharing systems (2024)	11
National cycling strategies (2024)	<b>x</b> )
National Cycling Strategies (2024)	
<b>₽₽ Public Transport</b>	
Bus rapid transit (2024)	458 km of total length in 12 cities
Bus rapid transit daily passenger volume (2024)	2881050 passengers per day
Urban rail (LRT, metro, tram) (2024)	313 km in 3 cities
Proportion of population that has convenient access to public transport (2020) SDG 11.2	36.28 %
II Intercity Rail	
Rail network	_
Rail travel activity (2021)	466 million passenger-km
Rail freight activity (2021)	92 437 million ton-km
High-speed rail (2021)	
High-speed rail travel activity (2021)	
National plans for passenger and freight rail expansion (2024)	•
Pail to grow from 26 40% to 400% of land froight activity	

Road Transport	
Total road vehicles in use per 1,000 people (2020)	356.8
Road vehicle fleet growth (from 2015 to 2020)	20.70%
Rural Access Index (2019) SDG 9.1	74.7 RAI PST
Diesel prices (2022)	0.92 USD per litre
Gasoline prices (2022)	0.99 USD per litre
<b>→</b> Aviation	
Air passengers carried (2021)	54.2 million people
Air freight activity (2021)	962.6 million ton-km
Carbon-accredited airports (2023)	44 airports
of which carbon neutral:	none
Shipping	
Logistics Performance Index (2023)	2.9
Liner shipping connectivity index (Q4 2024)	47.3
Container port traffic (2020)	6 385 629.0 TEU
Transport Energy Sources	
Biofuel blend overall mandate (2023)	_
Biofuel blend biodiesel mandate (2023)	
Biofuel blend ethanol mandate (2023)	5.8%
Carbon intensity of electricity (2023)	492.34 gCO <sub>2</sub> /kWh
Renewable energy (biofuels and electricity) share in transport (2022) SDG 721	0.3% of total transport energy consumption
Biofuels (2022)	
Electricity (2022)	0.3% of total transport energy consumption
Targeted renewable power share	35%
🐞 Vehicle Technologies	
Emission standards for LDVs (2024)	Euro 4 and above
CO <sub>2</sub> emissions performance for passenger cars (2024)	145 g CO <sub>2</sub> /km in 2015
Targeted CO <sub>2</sub> emissions performance (2024)	87 g CO <sub>2</sub> /km by 2027
Regulatory environment ranking on used vehicles (2024)	Good
Electric vehicles stock for passenger cars (2023)	45 000 vehicles
Share of electric vehicles in car sales (2023)	2.2 %
ICE phase-out targets	×
Electric vehicles stock for vans (2023)	
LIECTITO VEHICLES STOCK FOI VALIS (2025)	

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. 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 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: Drive Electric CAMPAIGN

▶ Rail to grow from 26.4% to 40% of land freight activity

▶ Achieve a decarbonised rail system

List of acronyms
GDP Gross-domestic product
Havy-duty vehicle
IDE Internal combustion engine
KWh Klowatt-hour
LUV Light-duty shicle
LRT Light-rall transit
NDC Nationally determined contribution
PST Primary, secondary or tertiary roads









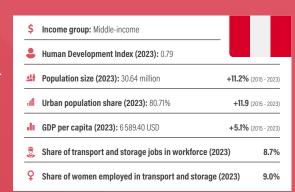


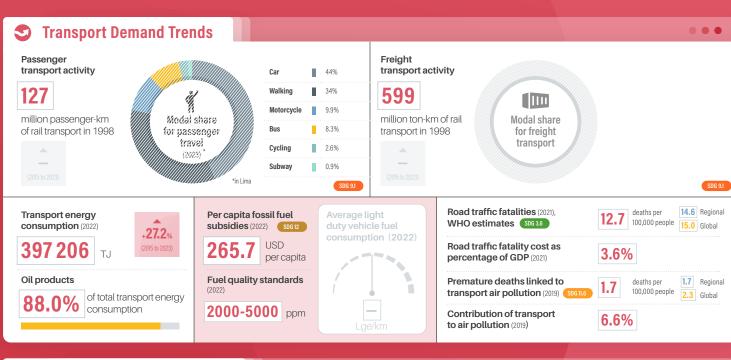
## Peru

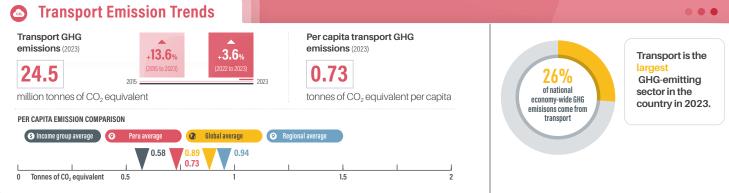
Peru's transport sector is the largest contributor to national GHG emissions, accounting for 26.04% of economy-wide emissions in 2023. Transport GHG emissions grew by 13.6% from 2015 to 2023. Urban mobility in Lima is dominated by cars (44%) and walking (34%), with limited public transport uptake. Transport energy consumption remains heavily reliant on oil products (88%), with biofuels comprising 4.1%, and electricity only 0.1%. Beyond climate impacts, transport accounted for 6.6% of national air pollutant emissions in 2019. Transport-induced air pollution was attributed to 1.68 premature deaths per 100,000 people in Peru in 2019. The

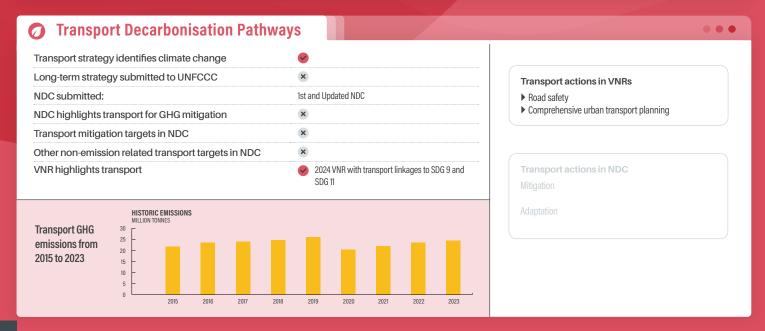
rate of road traffic fatalities was 12.7 deaths per 100,000 people and accounted for 3.60% of the country's GDP in 2021

While Peru has a national urban mobility framework and sustainable mobility plans for five cities, its NDC lacks explicit transport mitigation targets. Rail expansion plans aim to improve efficiency and environmental sustainability in passenger and freight transport. Peru has a very low share (27%) of urban population with convenient access to public transport as Lima was the only city with a metro system and BRT system in the country.









COUNTRY FACT SHEET | PERU



## Policy Areas: Indicators and Targets



Integrated Transport Planning	
National urban mobility framework (2024)	
Sustainable urban mobility plans (2024)	✓
Number of sustainable urban mobility plans (2024)	5 cities
Low emission zones (2024)	
♣ Adaptation and Resilience   ■ Comparison of the property of the prope	
ND-GAIN Index (2022)	49.11
Vulnerability score for infrastructure (2022)	0.10
∱ Walking	
Walkability Score (2024)	0.86
National walking strategies (2024)	✓
ỗ Cycling	
	0041
Cycling infrastructure in capital (2022)	294 km
Percent near protected bikeways (2024)	13%
Bike sharing systems (2024)	1
National cycling strategies (2024)	×
<b>□□ Public Transport</b>	
Bus rapid transit (2024)	26 km of total length in 1 city
Bus rapid transit daily passenger volume (2024)	704 803 passengers per day
Urban rail (LRT, metro, tram) (2024)	34 km in 1 city
Proportion of population that has convenient access to public transport (2020) SDG II.2	26.99%
Intercity Rail	
Rail network (1998)	1639 km
Rail travel activity (1998)	127 million passenger-km
Rail freight activity (1998)	599 million ton-km
High-speed rail (2021)	
High-speed rail travel activity (2021)	
National plans for passenger and freight rail expansion (2024)	•
<b>∅</b> Target	

<b>₩</b> Road Transport	
Total road vehicles in use per 1,000 people (2020)	90.2
Road vehicle fleet growth (from 2015 to 2020)	20.49%
Rural Access Index (2019) SDG 9.1	47 RAI PST
Diesel prices (2022)	0.90 USD per litre
Gasoline prices (2022)	1.17 USD per litre
→ Aviation	
Air passengers carried (2021)	9.1 million people
Air freight activity (2021)	258.3 million ton-km
Carbon-accredited airports (2023)	2 airports
of which carbon neutral:	none
Shipping	
Logistics Performance Index (2023)	3
Liner shipping connectivity index (Q4 2024)	40.4
Container port traffic (2020)	2 6 0 1 4 1 1 . 0 TEU
Transport Energy Sources	
Biofuel blend overall mandate (2023)	
Biofuel blend biodiesel mandate (2023)	5.0%
Biofuel blend ethanol mandate (2023)	7.8%
Carbon intensity of electricity (2023)	300.53 gCO <sub>2</sub> /kWh
Renewable energy (biofuels and electricity) share in transport (2022) SDG 7221	4.2% of total transport energy consumption
Biofuels (2022)	4.1% of total transport energy consumption
Electricity (2022)	0.1% of total transport energy consumption
Targeted renewable power share	15%
Vehicle Technologies	
Emission standards for LDVs (2024)	Below Euro 3
CO2 emissions performance for passenger cars (2024)	
Targeted CO <sub>2</sub> emissions performance (2024)	No target set
Regulatory environment ranking on used vehicles (2024)	Good
Electric vehicles stock for passenger cars (2024)	
Share of electric vehicles in car sales (2024)	
ICE phase-out targets	×
ior bilase-out targets	
Electric vehicles stock for vans (2024)	

This fact sheet is part of the SLOCAT Transport, Climate and Sustainability This fact sheet is part of the SLOCAT Transport, Climate and Sustainability Global Status Report – 4<sup>th</sup> 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 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.

▶ To develop an efficient national railway system that has shorter travel times and lower logistics costs for passenger and freight transport, while addressing environmental

List of acronyms
GDP Gross-domestic product
Havy-duty vehicle
IDE Internal combustion engine
KWh Klowatt-hour
LUV Light-duty shicle
LRT Light-rall transit
NDC Nationally determined contribution
PST Primary, secondary or tertiary roads







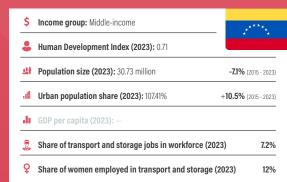


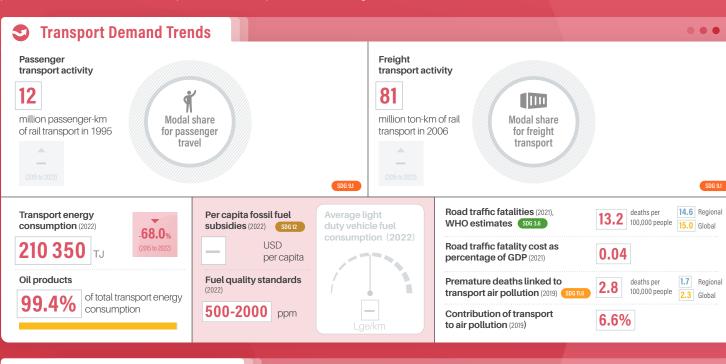


## Venezuela

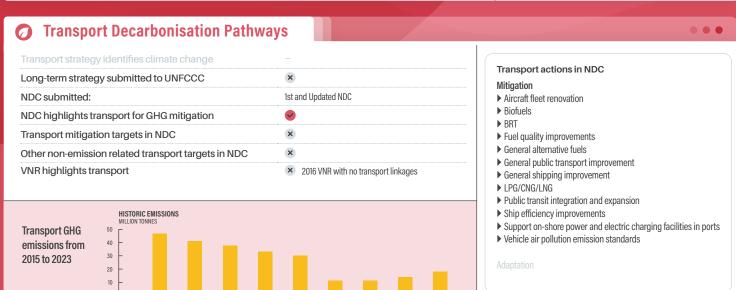
Venezuela's transport sector experienced a sharp decline in energy consumption and emissions, with transport GHG emissions dropping by 61.8% between 2015 and 2023. However, because this reduction was not directly resulting from decarbonisation efforts, transport emissions are starting to rise again (30.4% increase from 2022 to 2023). Transport is the third-largest emitting sector, accounting for 11.8% of national emissions. Oil products dominate energy consumption (99.4%). Focusing on sustainability in transport, Venezuela's transport accounted for 6.6% of national air pollutant emissions and can be attributed to 2.82 premature

deaths per 100,000 people in 2019. Road traffic resulted 13.2 deaths per 100,000 people and accounted for 4.3% of the country's GDP in 2021. In 2020, just 40.3% of the urban population had convenient access to public transport. There is limited data on passenger and freight transport activity as well as supporting policies, but public transport options include a 78 km urban rail network and 42 km of BRT serving nearly 241,000 passengers daily. Fuel prices remain extremely low, while vehicle emission standards lag at below Euro 3. Venezuela's NDC highlights transport for mitigation but lacks specific decarbonisation targets.









COUNTRY FACT SHEET | VENEZUELA



## Policy Areas: Indicators and Targets



National urban mobility framework (2024)  Sustainable urban mobility plans (2024)  Number of sustainable urban mobility plans (2022)	
Number of sustainable urban mobility plans (2022)	
Low emission zones (2022)	
M. Adamatica and Decilions	
Adaptation and Resilience	4104
ND-GAIN Index (2022)	41.04
Vulnerability score for infrastructure (2022)	0.15
<b>†</b> Walking	
Walkability Score (2024)	0.43
National walking strategies (2024)	×
ão Cycling	
Cycling infrastructure in capital (2022)	_
Percent near protected bikeways (2024)	0%
Bike sharing systems (2024)	2
National cycling strategies (2024)	<b>⊗</b>
<b>∅</b> Target	
ଇନ୍ଲି Public Transport	
Bus rapid transit (2024)	42 km of total length in 3 cities
Bus rapid transit daily passenger volume (2024)	240778 passengers per day
Urban rail (LRT, metro, tram) (2024)	78 km in 3 cities
Proportion of population that has convenient access to public transport (2020)  SDG 112	40.25%
Intercity Rail	
Pail network (2006)	336 km
Rail network (2006)	12 million passenger-km
Rail travel activity (1995)	81.07 million ton-km
Rail travel activity (1995)	
Rail travel activity (1995) Rail freight activity (2006)	

otal road vehicles in use per 1,000 people (2020)	148.1
Road vehicle fleet growth (from 2015 to 2020)	-6.11%
Rural Access Index (2019) SDG 9.1	42.6 RAI PST
Diesel prices (2022)	0.02 USD per litre
Gasoline prices (2022)	0.02 USD per litre
<b>→</b> Aviation	
Air passengers carried (2021)	0.3 million people
Air freight activity (2021)	0.1 million ton-km
Carbon-accredited airports (2023)	
of which carbon neutral:	
Shipping	
Logistics Performance Index (2023)	_
Liner shipping connectivity index (Q4 2024)	7.4
Container port traffic (2020)	168757.0 TEU
Transport Energy Sources	
Biofuel blend overall mandate (2023)	_
Biofuel blend biodiesel mandate (2023)	
Biofuel blend ethanol mandate (2023)	
Carbon intensity of electricity (2023)	180.25 gCO₂/kWh
Renewable energy (biofuels and electricity) share in transport (2022) SDG 721	0.28% of total transport energy consumption
Biofuels (2022)	
Electricity (2022)	0.28% of total transport energy consumption
Targeted renewable power share	
<b>ŏ</b> Vehicle Technologies	
Emission standards for LDVs (2024)	Below Euro 3
CO2 emissions performance for passenger cars (2024)	
Targeted CO <sub>2</sub> emissions performance (2024)	No target set
Regulatory environment ranking on used vehicles (2024)	Banned
Electric vehicles stock for passenger cars (2024)	
Share of electric vehicles in car sales (2024)	
ICE phase-out targets	×
Electric vehicles stock for vans (2024)	
Electric vehicles stock for trucks (2024)	

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. 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 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.

List of acronyms
GDP Gross-domestic product
Havy-duty vehicle
IDE Internal combustion engine
KWh Kllowatt-hour
LUV Light-duty shelic
LRT Light-rail transit
NDC Nationally determined contribution
PST Primary, secondary or tertiary roads

TEU Twenty-foot Equivalent Unit UNEP United Nations Environment Programme UNIFCCC United Nations Framework Convention on Climate Change VMR Voluntary national review of the Sustainable Developiment Goals WIIP Worldwide harmonised light vehicles test procedure













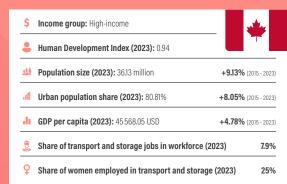


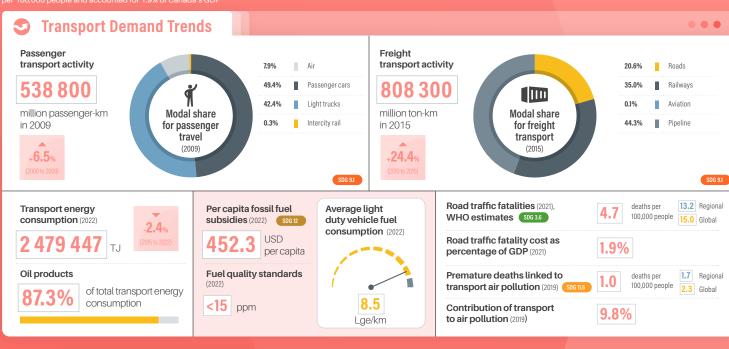
# <u>Canada</u>

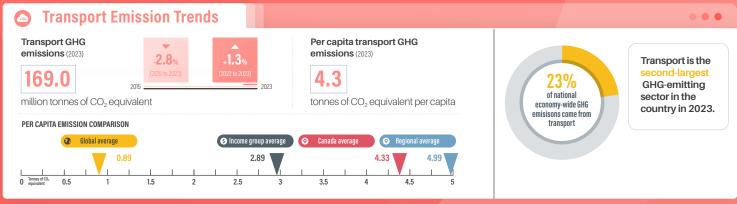
Canada's transport sector is the second-largest contributor to national GHG emissions, accounting for 22.6% of total emissions in 2023. Despite a decline of 2.8% in transport emissions since 2015, per capita emissions remain high at 4.33 tonnes, above the global and regional averages. The country has a strong policy framework for transport decarbonisation, including subnational emission targets and a 100% zero-emission light-duty vehicle sales target by 2035. Transport contributed with 9.8% a high share of national air pollutant emissions in 2019. Transport-induced air pollution, in turn, caused 1.01 premature deaths per 100,000 people in Canada in the same year. Road traffic injuries claimed 4.7 lives per 100,000 people and accounted for 1.9% of Canada's GDP

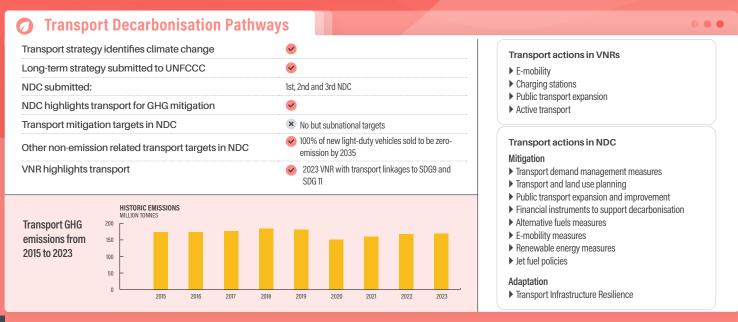
in 2021. In 2020, 77% of Canada's population had convenient access to public transport.

Canada is advancing sustainable mobility through integrated urban transport planning, active transport strategies, and public transport expansion. While national cycling and walking strategies promote accessibility and safety, urban rail and bus rapid transit infrastructure remain limited. The country is investing in passenger and freight rail expansion, including a planned high-speed corridor between Toronto and Quebec City. Electric vehicle adoption is growing, with 13% of car sales in 2023 being electric, supported by an internal combustion engine phase-out target for 2035.









COUNTRY FACT SHEET | CANADA

**Road Transport** 

Rural Access Index (2019) SDG 9.1

Diesel prices (2022)

Gasoline prices (2022)

Aviation

Air passengers carried (2021)

Total road vehicles in use per 1,000 people (2020)

Road vehicle fleet growth (from 2015 to 2020)



## **Policy Areas: Indicators and Targets**



704.6

15,4%

1.33 USD per litre

1.35 USD per litre

25.0 million people

## Integrated Transport Planning National urban mobility framework (2024) Sustainable urban mobility plans (2024) Number of sustainable urban mobility plans (2024) 1 city (Québec) × 1 LEZ planned for Montreal Low emission zones (2022) (2030)

## 😽 Adaptation and Resilience

ND-GAIN Index (2022)	68.46
Vulnerability score for infrastructure (2022)	0.12

## **↑** Walking

Walkability Score (2024)	0.67
National walking strategies (2024)	Combined with cycling



- ▶ Improve community connections and promote social equity amongst vulnerable Canadians
- Make travel by active transport easier, more convenient and enjoyable, and enhance user safety and security
   Encourage people to choose active transport over personal vehicles (including supporting walking and cycling to access
- Contribute to long-term, sustainable, inclusive economic growth, while setting the foundation for achieving a more inclusive Canada and net-zero climate emissions by 2050
- Support the Canadian economy through a reduction in congestion, the creation of jobs and enhanced access via active transport modes to businesses

### **6** Cycling

Cycling infrastructure in capital (2024)	More than 1000km in Montreal
Percent near protected bikeways (2024)	34%
Bike sharing systems (2024)	31
National cycling strategies (2024)	Combined with walking
Target (see above)	

## **₽₽** Public Transport

Bus rapid transit (2024)	306 km of total length in 7 cities
Bus rapid transit daily passenger volume (2024)	503 407 passengers per day
Urban rail (LRT, metro, tram) (2024)	242.2 km in 5 cities
Proportion of population that has convenient access to public transport (2020) SDG11.2	77.1%

## Intercity Rail

Rail network (2021)	48149.91 km
Rail travel activity (2021)	536 million passenger-km
Rail freight activity (2021)	430170 million ton-km
National plans for passenger and freight rail expansion (2024)	<ul><li>✓</li></ul>



- ▶ The Alto high-speed rail network to connect Toronto and Quebec City, spanning approximately 1,000 kilometres
- ▶ Jaleslie Siding Extension project to enhance the reliability and fluidity of freight trains and passenger rail services to and from the Port of Vancouver

Air freight activity (2021)	3240.0 million ton-km
Carbon-accredited airports (2023)	27 airports
of which carbon neutral:	3 airports
<b>&amp;</b> Shipping	
Logistics Performance Index (2023)	4
Liner shipping connectivity index (Q4 2024)	48.8
Container port traffic (2020)	6196 600.0 TEU
Transport Energy Sources	
Biofuel blend overall mandate (2023)	Subnational mandates ranging from 2 to 10%
Biofuel blend biodiesel mandate (2023)	2.0%
Biofuel blend ethanol mandate (2023)	5.0%
Carbon intensity of electricity (2023)	165.15 gCO <sub>2</sub> /kWh
Renewable energy (biofuels and electricity) share in transport (2022) specifical specific	5.4% of total transport energy consumption
Biofuels (2022)	4.2% of total transport energy consumption
Electricity (2022)	1.2% of total transport energy consumption
Targeted renewable power share	90%
Vehicle Technologies	
Emission standards for LDVs (2024)	Euro 4 and above
CO <sub>2</sub> emissions performance for passenger cars (2024)	112 g CO <sub>2</sub> /km in 2017
Targeted CO <sub>2</sub> emissions performance (2024)	8 g CO <sub>2</sub> /km by 2035
Regulatory environment ranking on used vehicles (2024)	
Electric vehicles stock for passenger cars (2024)	620 000 vehicles
Share of electric vehicles in car sales (2024)	17 %
	(2005)

This fact sheet is part of the SLOCAT Transport, Climate and Sustainability Global Status Report –  $4^{\text{th}}$  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 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: Drive Electric

GDP	Gross-domestic product
HDV	Heavy-duty vehicle
ICE	Internal combustion engine
kWh	Kilowatt-hour

Light-duty vehicle
Light-rail transit
Nationally determined contribution Primary, secondary or tertiary roads TEU Twenty-foot Equivalent Unit UNEP United Nations Environment Programme United Nations Environment Programme United Nations Framework Convention on Climate Change Voluntary national review of the Sustainable Developiment Goals WLTP Worldwide harmonised light vehicles test procedure

procedure

Electric vehicles stock for vans (2024)

Electric vehicles stock for trucks (2024)

ICE phase-out targets



(2035)

31000 vehicles

5300 vehicles







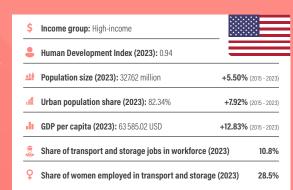


## **United States of America**

The transport sector in the **United States** showed a very strong dependence on light-duty vehicles while lacking efficiency, road safety and affordable alternatives. The United States has the highest transport emissions globally, with the sector accounting for 29% of national GHG emissions in 2023. While freight activity increased slightly, passenger travel declined due to a fall in public transport and active mobility use. Light-duty vehicles consumed 8.4 Lge/km in 2022. Transport accounted for 15.4% of national air pollutant emissions in 2019 as well as 2.3 premature deaths per 100,000 people in 2019. Road traffic injury is another leading cause of death, claiming 14.2 lives per 100,000 people and accounting for 5% of the country's GDP in 2021. In 2020, only

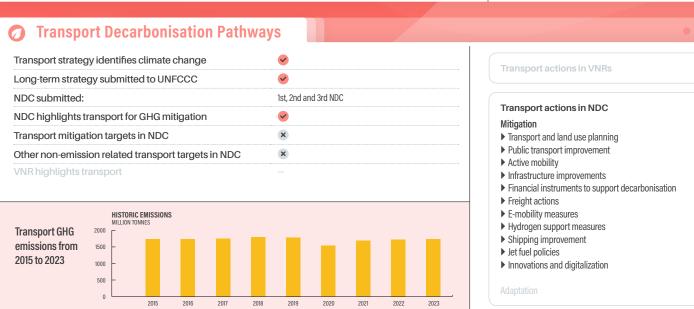
56.7% of the population had convenient access to public transport

Efforts to improve the sustainability of mobility and decarbonise transport can be mainly found in individual states, as they establish subnational mandates for biofuels and electric vehicle policies. The United States has an increasing electric vehicle adoption (9.5% of new car sales in 2023) but the carbon intensity of its electricity remains high, at 392.9 gCO<sub>2</sub>/kWh in 2023. Adaptation actions in transport are limited. Public transport systems exist in major cities to a limited degree as supporting national investment and policy frameworks only provide minimal support towards service improvements or network expansions.











## **Policy Areas: Indicators and Targets**



## Integrated Transport Planning National urban mobility framework (2024)

Number of sustainable urban mobility plans (2022)

Low emission zones (2022)

First nation-wide pilot in Santa Monica conducted in December 2022; Zero emissions delivery zones being developed in 8 cities

## 😽 Adaptation and Resilience

ND-GAIN Index (2022) 67.66 Vulnerability score for infrastructure (2022) 0.15

## Walking

Walkability Score (2024)

National walking strategies (2024) Target (target combined with public transport and cycling)

▶ Increase the percentage of person trips by public transport and active transport modes from roughly 4% in 2020 to 6% by 2026

## **Cycling**

Cycling infrastructure in capital (2022)	167 km of separated bikelanes
Percent near protected bikeways (2024)	
Bike sharing systems (2024)	174
National cycling strategies (2024)	×
Target (target combined with public transpor	t and walking)

Target (target combined with public transport and walking)

▶ Increase the percentage of person trips by public transport and active transport modes from roughly 4% in 2020 to 6% by 2026

## **□** Public Transport

Bus rapid transit (2024)	509 km of total length in 16 cities
Bus rapid transit daily passenger volume (2024)	502389 passengers per day
Urban rail (LRT, metro, tram) (2024)	2377 km in 41 cities
Proportion of population that has convenient access to public transport (2020) SOG 11.2	56.72%

## Intercity Rail

Rail network (2021)	148 553.3 km
Rail travel activity (2020)	12 460 million passenger-km
Rail freight activity (2021)	2239 401 million ton-km
High-speed rail	
High-speed rail travel activity	
National plans for passenger and freight rail expansion	•

**S** Target

(2024)

▶ Support the current freight rail market share and growth. Develop strategies to attract 50% of all shipments 500 miles or greater to intermodal rail by 2035.

## **Road Transport**

lotal road venicles in use per 1,000 people (2020)	852.3
Road vehicle fleet growth (from 2015 to 2020)	9.40%
Rural Access Index (2019) SDG 9.1	
Diesel prices (2022)	1.14 USD per litre
Gasoline prices (2022)	1.03 USD per litre
Gasoline prices (2022)	1.03 USD per litre

#### **Aviation**

Air passengers carried (2021)	666.2 million people
Air freight activity (2021)	46 004.6 million ton-km
Carbon-accredited airports (2023)	60 airports
of which carbon neutral:	5 airports

## **Shipping**

Logistics Performance Index (2023)	
Liner shipping connectivity index (Q4 2024)	102.6
Container port traffic (2020)	54963689.0 TEU

## Transport Energy Sources

Biofuel blend overall mandate (2023)	Subnational mandates ranging from 2 to 20%
Biofuel blend biodiesel mandate (2023)	
Biofuel blend ethanol mandate (2023)	
Carbon intensity of electricity (2023)	392.85 gCO <sub>2</sub> /kWh
Renewable energy (biofuels and electricity) share in transport (2022) SDG 7.21	6.2% of total transport energy consumption
Biofuels (2022)	6.0% of total transport energy consumption
Electricity (2022)	0.2% of total transport energy consumption
Targeted renewable power share	

## **Vehicle Technologies** Emission standards for LDVs (2024)

Emission standards for EDVS (2024)	Euro 4 una above
CO <sub>2</sub> emissions performance for passenger cars (2024)	90 g CO <sub>2</sub> /km in 2023
Targeted CO <sub>2</sub> emissions performance (2024)	38 g CO <sub>2</sub> /km by 2032
Regulatory environment ranking on used vehicles (2024)	
Electric vehicles stock for passenger cars (2024)	4700 000 vehicles
Share of electric vehicles in car sales (2024)	10 %
ICE phase-out targets	Sub-national (11 states by 2035)
Electric vehicles stock for vans (2024)	56 000 vehicles
Electric vehicles stock for trucks (2024)	

This fact sheet is part of the SLOCAT Transport, Climate and Sustainability Global Status Report –  $4^{\text{th}}$  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 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**.

Gross-domestic product

Gross-domestic product
Heavy-duty vehicle
Internal combustion engine
Kilowatt-hour
Light-duty vehicle
Light-rail transit
Nationally determined contribution

Primary, secondary or tertiary roads

Twenty-foot Equivalent Unit TEU Inverty-hot Equivalent Unit
UNEP United Nations Environment Programme
UNFCC United Nations Framework Convention on
Climate Change
Voluntary national review of the
Sustainable Developiment Goals
WLTP
Worldwide harmonised light vehicles test

procedure



Furo 4 and above















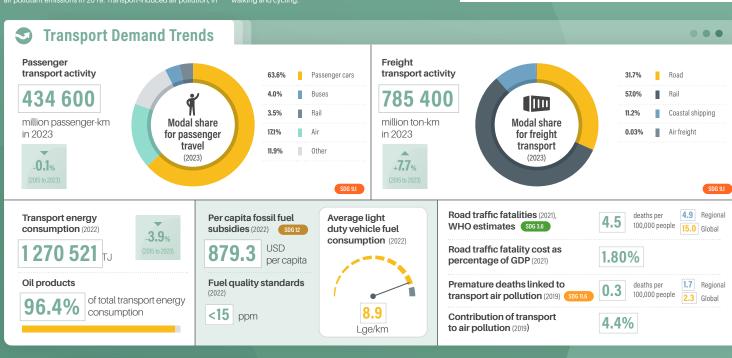
Supported by: Drive Electric

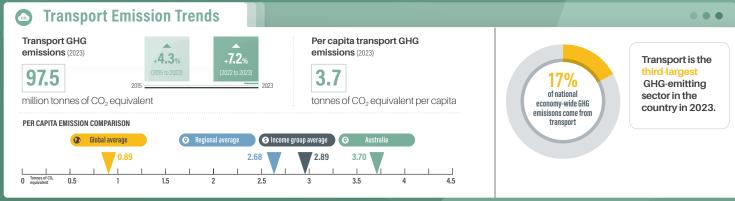
# Australia

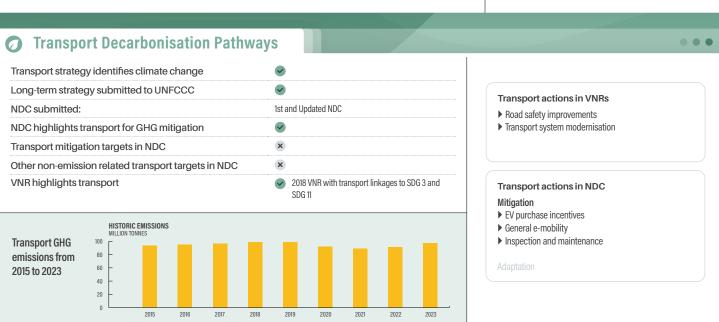
Australia's transport sector is characterised by high per capita emissions, with transport accounting for 17% of national GHG emissions in 2023. Despite a decline in transport energy consumption since 2015, emissions have risen due to continued reliance on oil products. Renewable energy, including biofuels and electricity, accounted for only 2.2% of Australia's transport energy consumption, whereas the carbon intensity of its electricity remainshigh, at 556.3 gCO₂/kWh in 2023. Passenger travel demand has remained stable, with private cars dominating the modal share, while freight transport has grown, primarily driven by road and rail. Beyond climate impacts, transport accounted for 4.4% of national air pollutant emissions in 2019. Transport-induced air pollution, in

turn, caused 0.34 premature deaths per 100,000 people in Australia in 2019. Road traffic injuries, on the other hand, claimed 4.5 lives per 100,000 people and accounted for 1.80% of the country's GDP in 2021. In 2020, a significant share (84.44%) of Australia's population had convenient access to public transport. The country has introduced measures to promote electric vehicles, including purchase incentives, but lacks national emissions reduction targets for transport in its NDC. Subnational policies, such as fuel mandates and ICE phase-out targets, indicate progress towards decarbonisation, while support for improved sustainability of transport is mainly supported by a few subnational activities on walking and cycling.

\$	Income group: High-income	*
•	Human Development Index (2023): 0.96	* *
229	Population size (2023): 24.13 million	<b>+10.7%</b> (2015 - 2023)
.4	<b>Urban population share (2023):</b> 86.50%	+11.6% (2015 - 2023)
di	<b>GDP per capita (2023):</b> 62 081.21 USD	<b>+9.2%</b> (2015 - 2023)
•	Share of transport and storage jobs in workforce (20	23) 8.3%
Q	Share of women employed in transport and storage (	(2023) 24.7%







COUNTRY FACT SHEET | AUSTRALIA

**Road Transport** 

Total road vehicles in use per 1,000 people (2020)



## Policy Areas: Indicators and Targets



737.6

ि Integrated Transport Planning		
National urban mobility framework (2024)	•	
Sustainable urban mobility plans (2024)	•	
Number of sustainable urban mobility plans (2022)	1 city	
Low emission zones (2022)	None, LEZs proposed for the City of Sydney	
3 Adaptation and Resilience		
ND-GAIN Index (2022)	69.55	
Vulnerability score for infrastructure (2022)	0.18	
* Walking		

•					
4	W	al	Ιci	n	a
1	w w	ш	IX.I	• •	

Walkability Score (2024)	0.55
National walking strategies (2024)	Only on subnational level



- ▶ Planning for walkable communities and places
- ▶ Building connected, comfortable and safe walking environments for all
- ▶ Encouraging more people to walk as part of their 'everyday'
- ▶ Working together to deliver for walking

## **Cycling**

Cycling infrastructure in capital (2022)	
Percent near protected bikeways (2024)	34.3%
Bike sharing systems (2024)	14
National cycling strategies (2024)	Only on subnational level
@ Torgot	



▶ Objectives on inclusive cycling, accessibility, integration with land use planning and cycle

## **Public Transport**

Bus rapid transit (2024)	90 km of total length in 3 cities
Bus rapid transit daily passenger volume (2024)	413 300 passengers per day
Urban rail (LRT, metro, tram) (2024)	1325 km in 8 cities
Proportion of population that has convenient access to public transport (2020) SDG112	84.44%

## Intercity Rail

· ·	
Rail network	
Rail travel activity (2021)	9 327.631 million passenger-km
Rail freight activity (2021)	453 091 million ton-km
High-speed rail	
High-speed rail travel activity (2002)	
National plans for passenger and freight rail expansion (2024)	•



▶ Inland Rail Project to upgrade 1,100 km and build 600 km new tracks

This fact sheet is part of the SLOCAT Transport, Climate and Sustainability Global Status Report -  $4^{\text{th}}$  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 reflect 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.

GDP	Gross-domestic product
HDV	Heavy-duty vehicle
ICE	Internal combustion engine
kWh	Kilowatt-hour
LDV	Light-duty vehicle

Light-rail transit
Nationally determined contribution
Primary, secondary or tertiary roads

Twenty-foot Equivalent Unit TeU Inverty-hot Equivalent Unit
UNEP United Nations Environment Programme
UNFCC United Nations Framework Convention on
Climate Change
Voluntary national review of the
Sustainable Developiment Goals
WLTP
Worldwide harmonised light vehicles test.

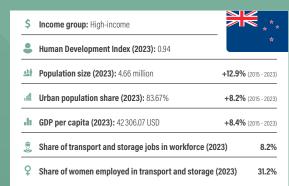
Electric vehicles stock for trucks (2024)

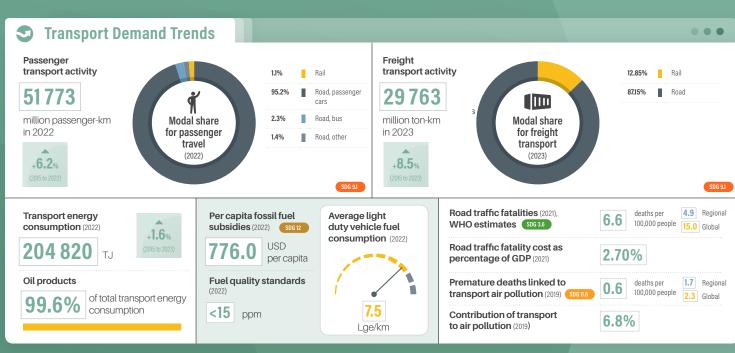
Road vehicle fleet growth (from 2015 to 2020)	10.0%
Rural Access Index (2019) SDG 9.1	
Diesel prices (2022)	1.15 USD per litre
Gasoline prices (2022)	1.17 USD per litre
<b>→</b> Aviation	
Air passengers carried (2021)	24.6 million people
Air freight activity (2021)	1244.8 million ton-km
Carbon-accredited airports (2023)	16 airports
of which carbon neutral:	3 airports
Shipping	
Logistics Performance Index (2023)	3.7
Liner shipping connectivity index (Q4 2024)	35.7
Container port traffic (2020)	8 656 995.0 TEU
Transport Energy Sources	
Biofuel blend overall mandate (2023)	Subnational mandates ranging from 0.5 to 10%
Biofuel blend biodiesel mandate (2023)	
Biofuel blend ethanol mandate (2023)	10.0%
Carbon intensity of electricity (2023)	556.30 gCO <sub>2</sub> /kWh
Renewable energy (biofuels and electricity) share in transport (2022) SDG 72.1	2.2% of total transport energy consumption
Biofuels (2022)	0.3% of total transport energy consumption
Electricity (2022)	1.9% of total transport energy consumption
Targeted renewable power share	
Vehicle Technologies	
Emission standards for LDVs (2024)	Euro 4 and above
CO <sub>2</sub> emissions performance for passenger cars (2024)	154 g CO <sub>2</sub> /km in 2021
Targeted CO <sub>2</sub> emissions performance (2024)	58 g CO <sub>2</sub> /km by 2029
Regulatory environment ranking on used vehicles (2024)	
Electric vehicles stock for passenger cars (2024)	250 000 vehicles
Share of electric vehicles in car sales (2024)	13 %
ICE phase-out targets	<ul> <li>Sub-national (South Australia and Australian Capital Territory: 2035; Queensland: 2036)</li> </ul>
Electric vehicles stock for vans (2024)	
Flectric vehicles stock for trucks (2024)	



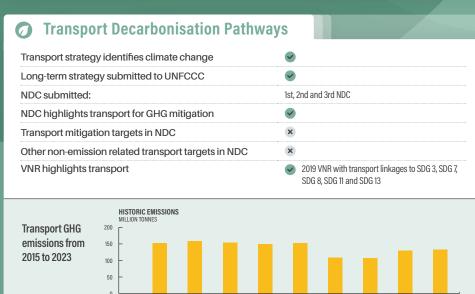
## <u>Cealand</u>

New Zealand's transport sector remains heavily reliant on road transport, with passenger cars accounting for over 95% of travel activity and road freight 87% of freight transport. Transport emissions have risen by 11% since 2015, making it the second-largest GHG emitting sector, contributing 19% of national emissions. Renewable energy, including biofuels and electricity, accounted for a mere 0.4% of New Zealand's transport energy consumption, whereas the carbon intensity of its electricity is rather low, at 104.4 gCO<sub>2</sub>/kWh in 2023.









### Transport actions in VNRs

- ▶ Active transport promotion
- ▶ Road safety improvements
- ▶ Electric vehicles
- ▶ Renewable energy and hydrogen uptake in transport

0 0 0

- ▶ Road freight employment
- ▶ Public transport promotion

#### Transport actions in NDC

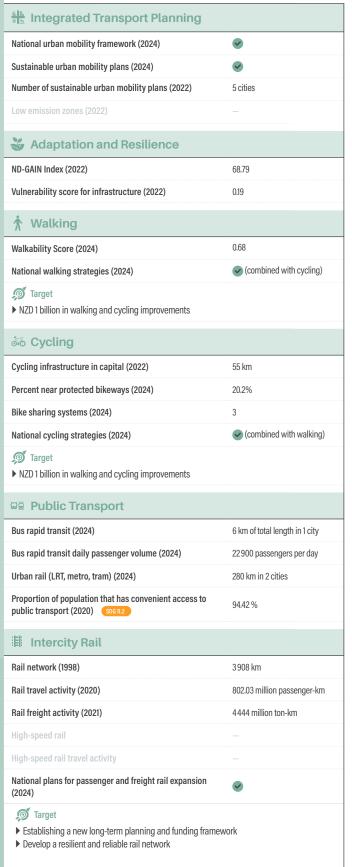
### Mitigation

- ▶ EV purchase incentives
- ▶ Vehicle restrictions (import, age, access, sale, taxation)
- Vehicle taxes



## Policy Areas: Indicators and Targets





Road Transport	
Total road vehicles in use per 1,000 people (2020)	873.4
Road vehicle fleet growth (from 2015 to 2020)	18.64%
Rural Access Index (2019) SDG 91	
Diesel prices (2022)	1.15 USD per litre
Gasoline prices (2022)	1.58 USD per litre
→ Aviation	
Air passengers carried (2021)	8.7 million people
Air freight activity (2021)	317.6 million ton-km
Carbon-accredited airports (2023)	12 airports
of which carbon neutral:	7 airports
<b>a</b> Shipping	
Logistics Performance Index (2023)	3.6
Liner shipping connectivity index (Q4 2024)	30.5
Container port traffic (2020)	3174304.0 TEU
Transport Energy Sources	
Biofuel blend overall mandate (2023)	3.0%
Biofuel blend biodiesel mandate (2023)	7.0%
Biofuel blend ethanol mandate (2023)	
Carbon intensity of electricity (2023)	104.42 gCO₂/kWh
Renewable energy (biofuels and electricity) share in transport (2022) S06 721	0.4% of total transport energy consumption
Biofuels (2022)	0.1% of total transport energy consumption
Electricity (2022)	0.3% of total transport energy consumption
Targeted renewable power share	100%
v <b>ĕ</b> ∈ Vehicle Technologies	
Emission standards for LDVs (2024)	Euro 4 and above
CO <sub>2</sub> emissions performance for passenger cars (2024)	109 g CO <sub>2</sub> /km in 2023
Targeted CO <sub>2</sub> emissions performance (2024)	59 g CO <sub>2</sub> /km by 2029
Regulatory environment ranking on used vehicles (2024)	Good
Electric vehicles stock for passenger cars (2024)	78 000 vehicles
Share of electric vehicles in car sales (2024)	11%
ICE phase-out targets	*
Electric vehicles stock for vans (2024)	2000 vehicles
Electric vehicles stock for trucks (2024)	

This fact sheet is part of the SLOCAT Transport, Climate and Sustainability Global Status Report –  $4^{\text{th}}$  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 reflect 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.

acronyms
Gross-domestic product
Heavy-duty vehicle
Internal combustion engine
Klowatt-hour
Light-duty vehicle
Light-rail transit
Nationally determined contribution
Primary, secondary or tertiary roads

Twenty-foot Equivalent Unit TeU Inverty-lock Equivalent Unit
UNEP United Mations Environment Programme
UNFCC United Nations Framework Convention on
Climate Change
Voluntary national review of the
Sustainable Developiment Goals
WLTP
Worldwide harmonised light vehicles test

procedure



Supported by: Drive Electric