

# South Africa



South Africa, as the strongest economy in the region, has transport levels far above the regional average. Car ownership is also relatively high. Transport CO<sub>2</sub> emissions are increasing in line with population and economic growth.

The country has implemented few transport decarbonisation measures, most of which focus on vehicle efficiency improvements and electrification. South Africa's Green Transport Strategy outlines a target to reduce transport GHG emissions 5% by 2050.

Income group: Middle-income

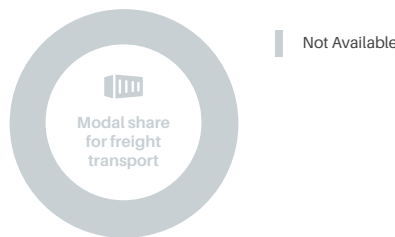
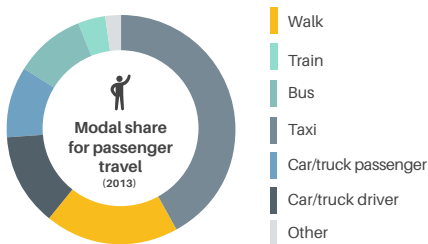
Human Development Index: 0.71

	Population size (2020)	Urban population share (2020)	GDP per capita (2019)
<b>Total</b>	59.3 million	66.7%	7 346
<b>Growth</b> (2010 to 2020)	15.8%	23.2%	14.6%

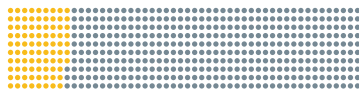
## Mobility Demand Trends

Passenger travel activity  
Not available

Freight transport activity  
Not available



**Car ownership growth (2005 to 2015)**  
173.6 vehicles per 1,000 people



+5.7%

**Vehicle sales (2019)**

**Passenger** (Growth 2010 to 2019)  
355 378 **-2.7%**

**Commercial**  
181 233 **-3.1%**

**Fuel consumption (2018)**

19 214

thousand tonnes of oil equivalent  
+21% (2010 to 2018)

Average light duty fuel economy consumption (2017)  
7.4 Lge/100 km (WLTP)



**Diesel**  
US cents per litre (2018)

119

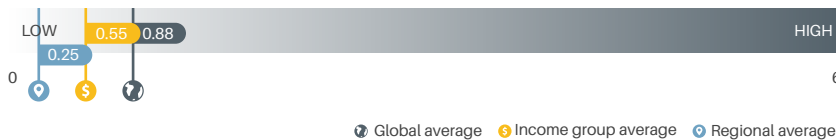
**Super gasoline**  
US cents per litre (2018)

118

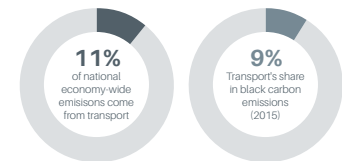
## Transport Emission Trends

**Transport CO<sub>2</sub> emissions (2019)**  
55.8 million tonnes

**Per capita transport CO<sub>2</sub> emissions (2019)**  
1 tonnes

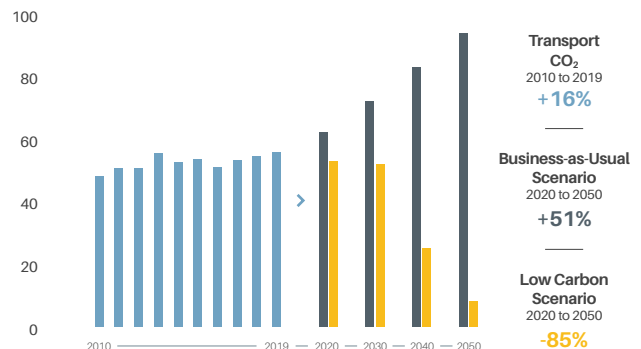


**Second-largest CO<sub>2</sub> producing sector in the country**



## Low Carbon Transport Pathways

Transport strategy identifies climate change	✓
Long-term strategy submitted to UNFCCC	✓
NDC submitted	1st NDC
NDC highlights transport for GHG mitigation	✓
Transport mitigation targets in NDC	✗
Other non-emission related transport targets in NDC	✓
Achieve 20% share of hybrid and full-electric vehicles by 2030	
Voluntary National Review highlights transport	✓
2019 VNR with transport linkages to SDG 7, SDG 8, SDG 9, SDG 11 and SDG 13	



## Transport measures in NDC

<b>Mitigation</b>	• General e-mobility	<b>Adaptation</b>	• Not available
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<b>Sustainable Mobility Planning &amp; Transport Demand Management</b>	
National Urban Mobility Framework (2020)	✓
Sustainable Urban Mobility Plans (2020)	Not available
Low Emission Zones (2020)	Not available

<b>Walking and Cycling</b>	
National walking and cycling strategies (2020)	Walking and cycling combined in Guidance Document for NMT-Planning
Cycling infrastructure in capital (2020)	450 km of bikelanes

<b>Urban Passenger and Freight Transport</b>	
Bus rapid transit (2020)	88 km in 3 cities
Urban rail (LRT, metro, tram) (2020)	Not available
Bus rapid transit daily passenger volume (2020)	111578
Rapid Transit to Resident Ratio (2019)	3.4

<b>Passenger and Freight Railways</b>	
Rail network (2017)	20953 km
High-speed rail (2018)	Not available
High-speed rail travel activity (2018)	Not available
National plans for passenger and freight rail expansion (2020)	✓
Rail travel activity (2007)	13865 million passenger-km
Rail freight activity (2008)	113342 million ton-km

<b>Shared Mobility Services</b>	
Bike-sharing systems (2020)	1 system
Electric scooter services (2020)	Not available
Carsharing services (2021)	4 services
National legal frameworks for shared mobility (2020)	Not available
Autonomous vehicles in operation or in preparation (2020)	Not available
Autonomous vehicles strategies (2020)	Not available

<b>Fuel Economy</b>	
Emission standards for LDVs (2018)	Euro 2
CO <sub>2</sub> emissions performance for LDVs (2017)	176 gCO <sub>2</sub> /km
Emission standards for HDVs (2018)	Euro II
Targeted CO <sub>2</sub> emissions performance	Not available

<b>Electric Mobility</b>	
Electric vehicles (2019)	1 200
Market share of electric vehicles (2019)	0.1%
No. of cities with electric buses (2019)	1
ICE phase-out targets	✗

<b>Renewable Energy</b>	
Biofuel blend mandate (2019)	5% Biodiesel, 2% Ethanol
Renewable energy (biofuels and electricity) share in transport (2018)	1.4%
Targeted % of renewable energy	Not available

<b>Aviation</b>	
Air passengers carried (2019)	25.7
Air freight activity (2019)	539.4
Carbon-accredited airports (2020)	6 airports
<i>of which carbon neutral</i>	✗

<b>Shipping</b>	
Liner shipping connectivity index (2019)	34.6
Container port traffic (2019)	4769700 TEU

<b>COVID-19</b>	
Traditional transport infrastructure investment	Not available
Clean transport infrastructure investment	Not available

This fact sheet is part of the SLOCAT Transport and Climate Change Global Status Report - 2nd edition.

The information shown is based on desk research. Data has been collected to the best knowledge and availability. However, it might not be complete or reflect the most recent status. 'Not available' is indicated, when no information has been retrieved. The content does not represent the opinion of the SLOCAT Partnership. Find data sources and indicator glossary here.

#### List of acronyms

<b>GDP</b>	Gross-domestic product
<b>HDV</b>	Heavy-duty vehicle
<b>ICE</b>	Internal combustion engine
<b>LDV</b>	Light-duty vehicle
<b>LRT</b>	Light-rail transit
<b>NDC</b>	Nationally determined contribution
<b>TEU</b>	Twenty-foot Equivalent Unit
<b>UNFCCC</b>	United Nations Framework Convention on Climate Change
<b>VNR</b>	Voluntary national review of the Sustainable Development Goals
<b>WLTP</b>	Worldwide harmonised light vehicles test procedure