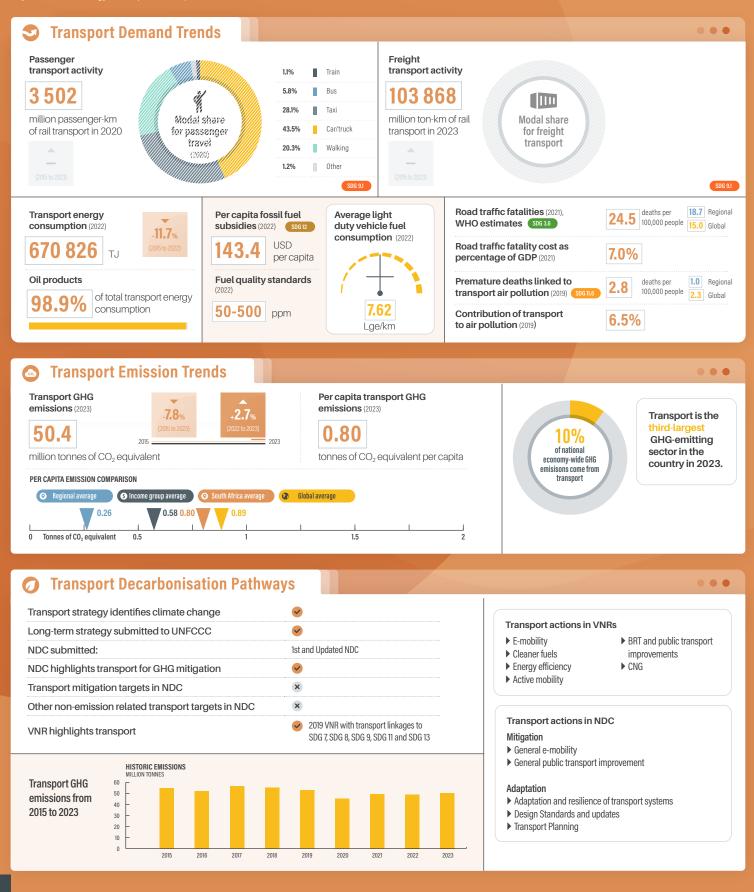
# **South Africa**

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.

#### Ś Income group: Middle-income . Human Development Index (2023): 0.74 ŧĿ Population size (2023): 57.38 million +12.00% (2015 - 2023) .4 Urban population share (2023): 66.42% +16.37% (2015 - 2023) GDP per capita (2023): 5778.58 USD -6.55% (2015 - 2023) Share of transport and storage jobs in workforce (2023) 8.8% Q Share of women employed in transport and storage (2023) 20.7%



## Policy Areas: Indicators and Targets

| Legrated 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>9</b> |

| oto 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>              |
|  |                       |

### **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) SDG11.2 | 32.56%                            |

### Intercity Rail

| Rail network (2021)                                     | 20 953 km                    |
|---|------------------------------|
| Rail travel activity (2020)                             | 3501.96 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 | ✓                            |

#### 👏 Target

(2024)

- ▶ 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

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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 or relied: 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.

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|--|--------------|
|  |              |
| Road Transport                                     |              |
| Total road vehicles in use per 1,000 people (2020) | 172.1        |
| Road vehicle fleet growth (from 2015 to 2020)      | 769%         |
| Rural Access Index (2019) SDG 91                   | 72.2 RAI PST |

| ······································   |  |
|--|--|
| 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   |
| â Shipping   |  |
| Logistics Performance Index (2023)   | 3.7  |
| Liner shipping connectivity index (Q4 2024)  | 39.1   |
| Container port traffic (2020)  | 4 029 000.0 TEU  |
| ⑦ 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 gC0₂/kWh  |
| Renewable energy (biofuels and electricity)<br>share in transport (2022) (506 721) | 1.1% of total transport energy consumption   |
| Biofuels (2022)  |  |
| Electricity (2022)   | 1.1% of total transport energy consumption   |
| Targeted renewable power share   | 13%<br>Minimum rollout of renewable energy<br>of 3 GW per annum, ramping up to 5<br>GW per annum by 2030 |
| 👼 Vehicle Technologies   |  |
|  |  |

## Emission standards for LDVs (2024)

| Targeted $CO_2$ 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 (2022)              |               |

- TEU
   Twenty-foot Equivalent Unit

   UNEP
   United Nations Environment Programme

   UNFCCC
   United Nations Framework Convention on Climate Change

   VNR
   Volurtary national review of the Sustainable Development Goals

   WUTP
   Worldwide harmonised light vehicles test reprodure
  - procedure



Below Euro 3

List of acronyms

GDP HDV ICE kWh

LDV LRT

NDC PST acronyms Grass-domestic product Heavy-duty vehicle Internal combustion engine Kilowath-hour Light-duty vehicle Light-rail transit Nationally determined contribution Primary, secondary or tertiary roads