

Saudi Arabia



Saudi Arabia has high car ownership rates and as a result, high transport CO₂ emission levels. Transport is currently the third-largest CO₂-emitting sector in the country, but emissions are growing rapidly.

Saudi Arabia has implemented relatively few measures to mitigate transport's impact on climate change. In 2018 the first high-speed rail service was inaugurated. Urban transport improvements are planned, including through rail systems which are under construction.

Income group: High-income

Human Development Index: 0.85

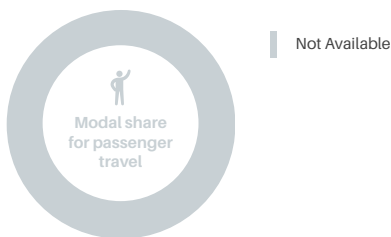
	Population size (2020)	Urban population share (2020)	GDP per capita (2019)
Total	34.8 million	84%	20542.1
Growth <small>(2010 to 2020)</small>	27%	30%	33.3%

Mobility Demand Trends

Passenger travel activity

464

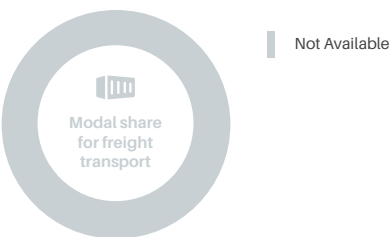
million passenger-km for rail in 2018
+23% (2014 to 2018)



Freight transport activity

1 772

million ton-km for rail in 2018
-18% (2014 to 2018)



Fuel consumption (2018)

45 500

thousand tonnes of oil equivalent
+29% (2010 to 2018)

Average light duty fuel economy consumption (2017)
Not available



Car ownership growth (2005 to 2015)

209.1 vehicles per 1,000 people



+18%

Vehicle sales (2019)

Passenger (Growth 2010 to 2019)
456 311 **34.1%**
Commercial
72 572 **14%**

Diesel
US cents per litre (2018)

13

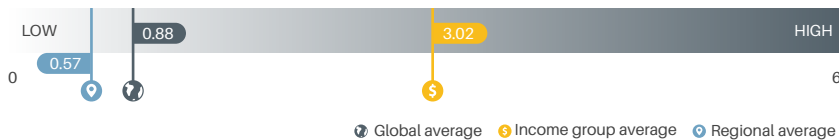
Super gasoline
US cents per litre (2018)

54

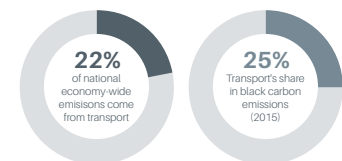
Transport Emission Trends

Transport CO₂ emissions (2019)
134 million tonnes

Per capita transport CO₂ emissions (2019)
3.9 tonnes

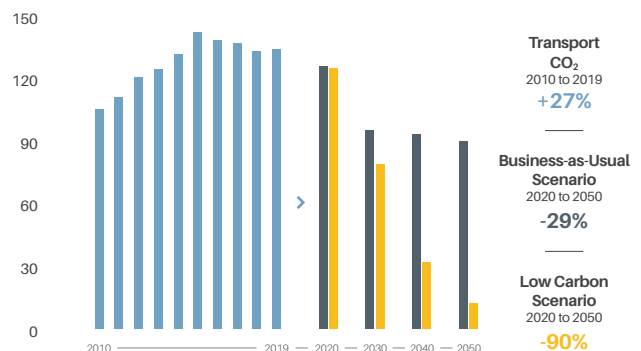


Third-largest CO₂ producing sector in the country



Low Carbon Transport Pathways

Transport strategy identifies climate change	✓
Long-term strategy submitted to UNFCCC	Not submitted
NDC submitted	1st NDC
NDC highlights transport for GHG mitigation	✓
Transport mitigation targets in NDC	✗
Other non-emission related transport targets in NDC	Not available
Voluntary National Review highlights transport	✗



Transport measures in NDC

Mitigation

- Public transport integration and expansion
- Fuel quality standards

Adaptation

- Resilient transport technologies

Sustainable Mobility Planning & Transport Demand Management

National Urban Mobility Framework (2020)	Envisioned
Sustainable Urban Mobility Plans (2020)	Envisioned
Low Emission Zones (2020)	Not available

Walking and Cycling

National walking strategies (2020)	Not available
National cycling strategies (2020)	Not available
Cycling infrastructure in capital (2020)	Not available

Urban Passenger and Freight Transport

Bus rapid transit (2020)	Not available
Urban rail (LRT, metro, tram) (2020)	Not available
Bus rapid transit daily passenger volume (2020)	Not available
Rapid Transit to Resident Ratio (2019)	Not available

Passenger and Freight Railways

Rail network (2018)	2939 km
High-speed rail (2018)	453 km
High-speed rail travel activity (2018)	Not available
National plans for passenger and freight rail expansion (2020)	✓
Targets	• To construct 9,000 km of railways by 2040
Rail travel activity (2018)	135 million passenger-km
Rail freight activity (2010)	1 852 million ton-km

Shared Mobility Services

Bike-sharing systems (2020)	2 systems
Electric scooter services (2020)	1 operator in 1 city
Carsharing services (2021)	7 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

Fuel Economy

Emission standards for LDVs (2018)	Euro 2
CO2 emissions performance for LDVs (2017)	Not available
Emission standards for HDVs (2018)	Not available
Targeted CO ₂ emissions performance	Not available

Electric Mobility

Electric vehicles (2019)	Not available
Market share of electric vehicles (2019)	Not available
No. of cities with electric buses (2019)	Not available
ICE phase-out targets	✗

Renewable Energy

Biofuel blend mandate (2019)	Not available
Renewable energy (biofuels and electricity) share in transport (2018)	Not available
Targeted % of renewable energy	Not available

Aviation

Air passengers carried (2019)	39.4 million people
Air freight activity (2019)	1 024.1 million ton-km
Carbon-accredited airports (2020)	✗
<i>of which carbon neutral</i>	✗

Shipping

Liner shipping connectivity index (2019)	63
Container port traffic (2019)	8 905 391 TEU

COVID-19

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

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