

Sudan



Sudan is a low-income country with a few low score in the HDI. Transport is the largest CO₂ emitter in Sudan, contributing 50% of the total emissions in the country. The country however registered a 2.5% decrease in transport CO₂ emissions between 2015 and 2021 and the per capita transport CO₂ emissions are slightly lower than the regional average.

Sudan submitted the 1st and updated NDCs, and a VNR in 2022. The VNR has transport linkages to SDG 8 and SDG 9 but the main focus is on infrastructure. The Sudan Railway Masterplan (2007-2026) aims to enhance rail transport services. But besides rail, there is no information available on other activities related to sustainable transport.

Income group	Low-income
Human Development Index (2021)	0.508
Population size (2022)	46 261 499 +23.1% (2015 - 2022)
Urban population share (2022)	35.5% +25.3% (2015 - 2022)
GDP per capita (2021)	1 805.38 -20.16% (2015 - 2021)

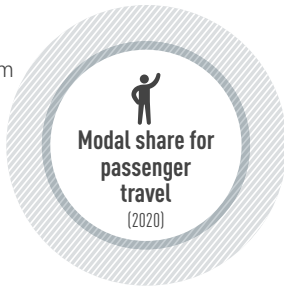
Transport Demand Trends

Passenger travel activity

82

million passenger-km for rail in 2015

+228%
(2010 to 2015)

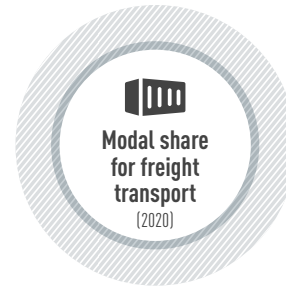


Freight transport activity

897

million ton-km for rail and aviation in 2020

-4.6%
(2010 to 2013)



Energy consumption (2020)

3.43

million tonnes of oil equivalent

+7.9%
(2015 to 2020)

100%

Oil Products

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

(n/a)

Transport Emission Trends

Transport CO₂ emissions (2021)

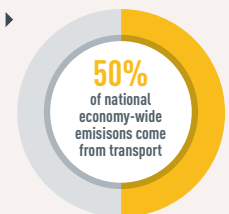
10.6 million tonnes

-2.5%
(2015 to 2021)

Per capita transport CO₂ emissions (2021)

0.24 tonnes

Transport is the largest CO₂ producing sector in the country



Per capita transport CO₂ emissions

Global average Income group average Regional average Sudan average



Transport Decarbonisation Pathways

Transport strategy identifies climate change	Not Available
Long-term strategy submitted to UNFCCC	✗
NDC submitted:	1st and Updated NDC
NDC highlights transport for GHG mitigation	✓
Transport mitigation targets in NDC	✗
Other non-emission related transport targets in NDC	✗
VNR highlights transport	✓ 2022 VNR with transport linkages to SDG 8 and SDG 9

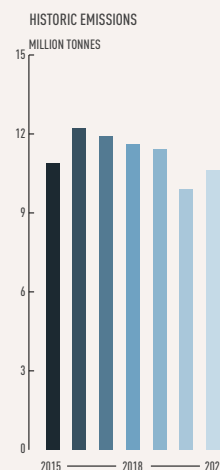
Transport actions in VNRs

- Provide road and transportation equipment
- Train human resources on infrastructure development, engineering and technology
- Rehabilitating and maintaining the existing road network
- Private sector engagement in road construction and maintenance

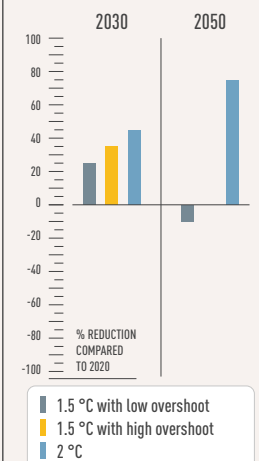
Transport actions in NDC

- Mitigation**
 - Biofuels
 - Freight transport shifting to rail or inland waterways
 - General public transport improvement
 - General shipping improvement
 - Vehicle efficiency standards
- Adaptation**
 - Not available

Required regional transport decarbonisation pathways



IPCC transport decarbonisation pathways for this region



Policy Areas: Indicators and Targets

Integrated Transport Planning

National urban mobility framework (2022)	Not available
Sustainable urban mobility plans (2022)	Not available
Number of sustainable urban mobility plans (2022)	✘
Low emission zones (2022)	✘

Walking

National walking strategies (2022)	Not available
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Cycling

National walking strategies (2022)	Not available
Cycling infrastructure in capital (2022)	Not available

Shared Mobility, Public Transport and Informal Transport

Bus rapid transit (2022)	✘
Bus rapid transit daily passenger volume (2022)	
Urban rail (LRT, metro, tram) (2022)	Not available
Rapid Transit to Resident Ratio (2021)	Not available

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 (2021)	Not available
High-speed rail travel activity (2021)	Not available
National plans for passenger and freight rail expansion (2022)	📌

Target

- ▶ To enhance the competitive position of the railway by expanding and improving services
- ▶ To construct railway links between Sudan and the neighbouring countries

Road Transport

Total road vehicles in use per 1,000 people (2020)	Not available
Average annual growth rate (from 2015 to 2020)	Not available

Aviation

Air passengers carried (2020)	0.4 million people
Air freight activity (2020):	✘
Carbon-accredited airports (2022)	✘
of which carbon neutral:	✘

Shipping

Liner shipping connectivity index (2021):	8.4
Container port traffic (2020):	493002.3 TEU

Transport Energy Sources

Biofuel blend mandate (2022)	5% ethanol
Renewable energy (biofuels and electricity) share in transport (2020)	Not available
Targeted % of renewable energy	Not available

Vehicle Technologies

Emission standards for LDVs (2020)	Not available
CO ₂ emissions performance for passenger cars (2020)	Not available
Targeted CO ₂ emissions performance	Not available
Regulatory environment ranking on used vehicles by UNEP (2021)	Banned
Electric vehicles (2022)	Not available
Share of electric vehicles in car sales (2022)	Not available
ICE phase-out targets:	✘

COVID-19

Strongest impact of COVID-19 on...	(compared to pre-COVID-19 baseline)
... trips to public transport	Not available
... navigation request for walking	Not available
... navigation request for driving	Not available
... driven kilometres	Not available
Traditional transport infrastructure investment:	Not available
Clean transport infrastructure investment:	Not available

Data in this fact sheet is based on the Energy and Transport Starter Data Kits by the Climate Compatible Growth (CCG) programme. SLOCAT is contributing transport data to the Energy and Transport Starter Data Kits; synthesising available data on passenger and freight activity, energy intensity, load factors and vehicle fleets for Africa, Asia and Latin America. For more information, please visit climatecompatiblegrowth.com/starter-kits/.

This fact sheet is part of the SLOCAT Transport, Climate and Sustainability Global Status Report 3rd Edition. Information shown in this country fact sheet is based on desk research and might not be complete or not show the most recent status. The data has been collected to the best knowledge and availability. If no information was able to be retrieved, then 'Not available' is being indicated. The content does not represent the opinion of the SLOCAT Partnership on Sustainable, Low Carbon Transport. For more information, please visit tcc-gsr.com

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
UNEP	United Nations Environment Programme
UNFCCC	United Nations Framework Convention on Climate Change
VNR	Voluntary national review of the Sustainable Development Goals
WLTP	Worldwide harmonised light vehicles test procedure