

Morocco



Morocco recorded a 12.7% increase in transport CO₂ emissions between 2015 and 2021 despite the COVID-19 pandemic in 2020 and 2021 which often resulted in emission reductions. Transport is the second largest CO₂ emitting sector in Morocco. Apart from rail, there is lack of statistical data about passenger and freight travel activity in Morocco.

Since the last edition of Morocco's transport fact sheet, Morocco submitted a long-term strategy to the UNFCCC, an updated NDC document and the country has completed a national urban mobility plan and sustainable urban mobility plans for 3 cities. There are also plans to expand the coverage of the high-speed rail service.

Income group: Middle-income	
Human Development Index (2021): 0.683	
Population size (2022): 37 264 469	+8.1% (2015 - 2022)
Urban population share (2022): 65.7%	+15.7% (2015 - 2022)
GDP per capita (2021): 3 077.39	+4.83% (2015 - 2021)

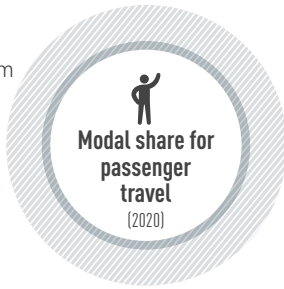
Transport Demand Trends

Passenger travel activity

4 464

million passenger-km for rail in 2020

18.9%
(2015 to 2020)

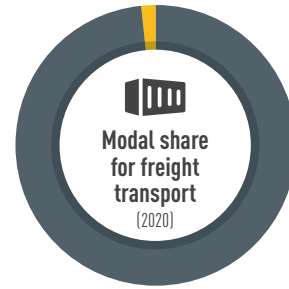


Freight transport activity

3 158

million ton-km for rail and aviation in 2020

34.1%
(2015 to 2020)



Energy consumption (2020)

5.43

million tonnes of oil equivalent

+1.5%
(2015 to 2020)

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

99.6%

Oil Products

0.4%

Electricity

Transport Emission Trends

Transport CO₂ emissions (2021)

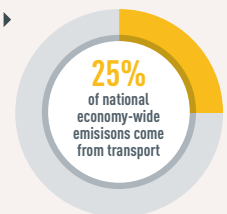
18.5 million tonnes

+12.7%
(2015 to 2020)

Per capita transport CO₂ emissions (2021)

0.5 tonnes

Transport is the **second-largest** CO₂ producing sector in the country



Per capita transport CO₂ emissions



Transport Decarbonisation Pathways

Transport strategy identifies climate change	✓
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	Not available
VNR highlights transport	✓ 2020 VNR with transport linkages to SDG 3, SDG 4, SDG 7, SDG 9, SDG 11 and SDG 13

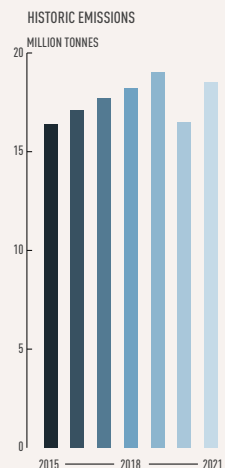
Transport actions in VNRs

- Urban infrastructure development
- Public transport promotion
- Rural roads development
- Infrastructure development programs
- Energy efficiency improvements
- Rail network planning

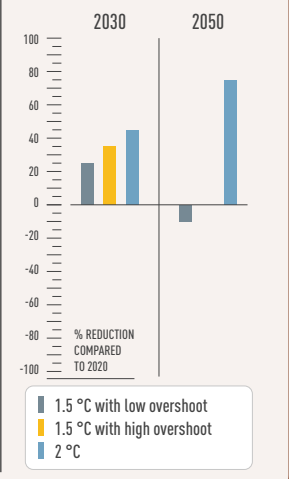
Transport actions in NDC

- Ecodriving
- Freight transport shifting to rail or inland waterways
- General economic instruments
- General freight efficiency improvements
- General vehicle improvements
- Public transit integration and expansion
- Use of renewable energy
- Vehicle air pollution emission standards
- Vehicle efficiency standards
- Vehicle scrappage scheme
- Vehicle taxes

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)	✓
Sustainable urban mobility plans (2022)	✓
Number of sustainable urban mobility plans (2022)	3 cities
Low emission zones (2022)	✗

Walking	
National walking strategies (2022)	Only in the national policy plan

Cycling	
National walking strategies (2022)	Only in the national policy plan
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)	74 km in 2 cities
Rapid Transit to Resident Ratio (2021)	6.0

Intercity Rail	
Rail network (2021)	2295.0 km
Rail travel activity (2021)	4464.0 million-passenger-km
Rail freight activity (2021)	3148.0 million ton-km
High-speed rail (2021)	186 km
High-speed rail travel activity (2021)	640 million passenger-km
National plans for passenger and freight rail expansion (2022)	✓

Target

- ▶ To create a 1500-km high-speed rail network, alongside a standard network of 2700 km by 2030
- ▶ To increase the number of cities served by conventional, high-speed rail links from 23 to 43

Road Transport	
Total road vehicles in use per 1,000 people (2020)	112.3
Average annual growth rate (from 2015 to 2020)	3.70%

Aviation	
Air passengers carried (2020)	3.0 million people
Air freight activity (2020):	46.2 million ton-km
Carbon-accredited airports (2022)	2 airports
of which carbon neutral:	✗

Shipping	
Liner shipping connectivity index (2021):	69.3
Container port traffic (2020):	6 980 958 TEU

Transport Energy Sources	
Biofuel blend mandate (2022)	Not available
Renewable energy (biofuels and electricity) share in transport (2020)	0.37%
Targeted % of renewable energy	Not available

Vehicle Technologies	
Emission standards for LDVs (2020)	Euro 4
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)	Good
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	-75.1% Week of 12 April 2020
... navigation request for walking	-86.6% Week of 29 March 2020
... navigation request for driving	-84.9% Week of 29 March 2020
... driven kilometres	-90.1% Week of 12 April 2020
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