

# Mexico



TRANSPORT, CLIMATE  
AND SUSTAINABILITY  
GLOBAL STATUS REPORT



Mexico had the second highest transport CO<sub>2</sub> emissions among countries in Latin America and the Caribbean in 2021. Transport CO<sub>2</sub> emissions declined 20% from 2019 to 2021. The levels of road vehicles in use in Mexico are higher than the regional levels and the CO<sub>2</sub> emissions performance for passenger cars is also worse than compared to other countries. However, there is a general scarcity of statistical data about passenger and freight travel activity.

The country is in the process of expanding sustainable transport policies. The first sustainable urban mobility plans are being prepared. There are rail development plans to increase rail's share in land freight activity from 26.4% in 2021 to 40% within the next 50 years.

Income group:	Middle-income
Human Development Index (2021):	0.758
Population size (2022):	127 024 134 +6.3% (2015 - 2022)
Urban population share (2022):	87.6% +11.5% (2015 - 2022)
GDP per capita (2021):	9 539.06 -2.75% (2015 - 2021)

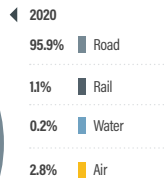
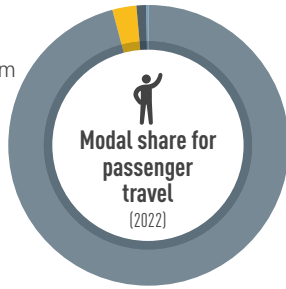
## Transport Demand Trends

### Passenger travel activity

466

million passenger-km for rail in 2020

-67%  
(2015 to 2021)

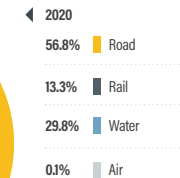
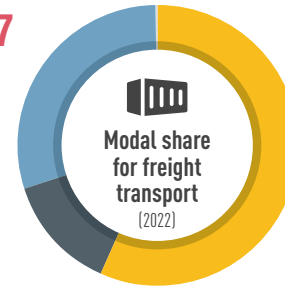


### Freight transport activity

342 787

million ton-km for roads and rail in 2020

+4.6%  
(2015 to 2021)



### Energy consumption (2020)

2 889

million tonnes of oil equivalent

+16%  
(2015 to 2021)

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

7.6  
(2019)

91.4%  
Oil Products

4.1%  
Natural Gas

3.3%  
Biofuels

1.3%  
Electricity



## Transport Emission Trends

### Transport CO<sub>2</sub> emissions (2021)

116.5 million tonnes

-22.6%  
(2015 to 2021)

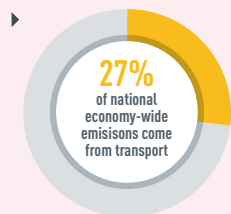
### Per capita transport CO<sub>2</sub> emissions (2021)

0.92 tonnes

### Per capita transport CO<sub>2</sub> emissions



Transport is the largest CO<sub>2</sub> producing sector in the country



## 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	✗
VNR highlights transport	✓ 2021 VNR with transport linkages to SDG 1, SDG 8, SDG 9, SDG 10 and SDG 11

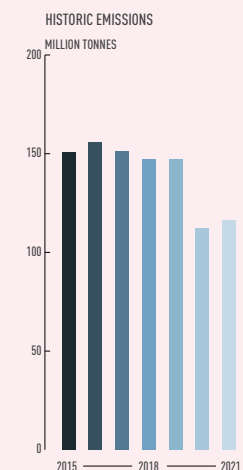
### Transport actions in VNRs

► Railway modernisation and expansion

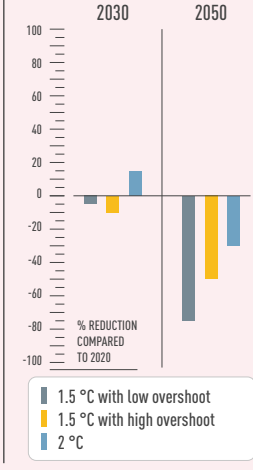
### Transport actions in NDC

- General e-mobility
- Public transport improvements
- Infrastructure improvements
- Alternative fuels
- Teleworking
- Sustainable Urban Mobility Plans
- Vehicle efficiency improvements
- Transport Planning
- System resilience

### 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)	In preparation for 2 cities (Guadalajara and Puebla)
Low emission zones (2022)	Not available

### Walking

National walking strategies (2022)	Only combined with cycling on subnational level as active mobility strategies
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### Cycling

National walking strategies (2022)	Only combined with walking on subnational level as active mobility strategies
Cycling infrastructure in capital (2022)	380.7 km

### Shared Mobility, Public Transport and Informal Transport

Bus rapid transit (2022)	416 km in 12 cities
Bus rapid transit daily passenger volume (2022)	2 659 137
Urban rail (LRT, metro, tram) (2022)	289 km in 3 cities
Rapid Transit to Resident Ratio (2021)	11.3

### Intercity Rail

Rail network (1994)	20477 km
Rail travel activity (2021)	466 million-passenger-km
Rail freight activity (2021)	92437 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

- ▶ Rail to grow from 26.4% to 40% of land freight activity
- ▶ Achieve a decarbonised rail system

### Road Transport

Total road vehicles in use per 1,000 people (2020)	350
Average annual growth rate (from 2015 to 2020)	3.8%

### Aviation

Air passengers carried (2020)	34.0 million people
Air freight activity (2020):	732.8 million ton-km
Carbon-accredited airports (2022)	20 airports
of which carbon neutral:	✗

### Shipping

Liner shipping connectivity index (2021):	473
Container port traffic (2020):	6 385 629 TEU

### Transport Energy Sources

Biofuel blend mandate (2022)	10% Ethanol
Renewable energy (biofuels and electricity) share in transport (2020)	4.50%
Targeted % of renewable energy	Not available

### Vehicle Technologies

Emission standards for LDVs (2020)	Euro 4
CO <sub>2</sub> emissions performance for passenger cars (2020)	211.8 gCO <sub>2</sub> /km
Targeted CO <sub>2</sub> emissions performance	146.7 gCO <sub>2</sub> /km
Regulatory environment ranking on used vehicles by UNEP (2021)	✗
Electric vehicles (2022)	8 800
Share of electric vehicles in car sales (2022)	0.90%
ICE phase-out targets:	✗

### COVID-19

Strongest impact of COVID-19 on...	(compared to pre-COVID-19 baseline)
... trips to public transport	-60.0% Week of 3 May 2020
... navigation request for walking	-68.79% Week of 12 April 2020
... navigation request for driving	-61.98% Week of 12 April 2020
... driven kilometres	-67.3% Week of 12 April 2020
Traditional transport infrastructure investment:	USD 13.3 billion
Clean transport infrastructure investment:	Not available

#### Examples

- ▶ Cycling network improvements

This fact sheet is part of the SLOCAT Transport, Climate and Sustainability Global Status Report 3<sup>rd</sup> 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](http://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