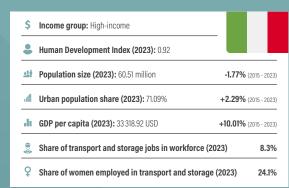
# <u>Italy</u>

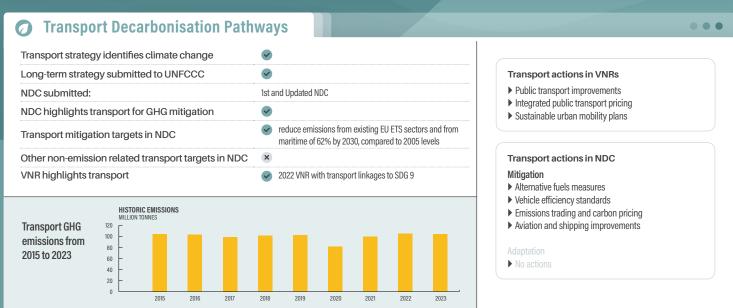
The key areas of sustainable, low-carbon transport in **Italy** are urban mobility improvements, high-speed rail improvements and alternative fuels. Italy's transport sector remained the country's largest source of greenhouse gas emissions, contributing 27.8% of national emissions in 2023. Renewable energy, including biofuels and electricity, accounted for 5.9% of Italy's transport energy consumption, whereas the carbon intensity of its electricity was moderate, at 323.5 gCO<sub>2</sub>/kWh in 2023. While transport emissions declined slightly (-0.33% from 2015 to 2023), passenger travel demand fell (-11.2%) while freight activity surged (+25.7%). Road transport dominates both passenger (81% cars) and freight (83.7% coad) modes. Concerning sustainability issues, transport accounter

for 14.4% of national air pollutant emissions in 2019. Transport-induced air pollution, in turn, caused 6.06 premature deaths per 100,000 people in Italy in 2019. Road traffic injuries, on the other hand, claimed 5 lives per 100,000 people and accounted for 2.20% of Italy's GDP in 2021. In 2020, 93.47% of Italy's population had convenient access to public transport. Private motorisation rates are also extremely high with 749.5 vehicles per 1,000 people in 2020. The country has strong policies for transport decarbonisation, including emissions trading, vehicle efficiency standards, and high-speed rail expansion. Italy follows the EU target of an internal combustion engine sales phase-out by 2035 and aims to expand electric vehicle adoption.









COUNTRY FACT SHEET | ITALY



# Policy Areas: Indicators and Targets



# Integrated Transport Planning Required for every city National urban mobility framework (2024) above 100,000 population Sustainable urban mobility plans (2024) Number of sustainable urban mobility plans (2024) 45 cities Low emission zones (2024) 180 cities Adaptation and Resilience ND-GAIN Index (2022) 59.58 Vulnerability score for infrastructure (2022) 0.39 **↑** Walking Walkability Score (2024) 0.74 National walking strategies (2024) **Cycling** Cycling infrastructure in capital (2022) 254 km Percent near protected bikeways (2024) 29% Bike sharing systems (2024) 115

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- ▶ To construct 565 km of cycling paths in urban areas
- ▶ To strengthen connections between railway stations and universities by June 2026

### **₽** Public Transport

National cycling strategies (2024)

Bus rapid transit (2024)	
Bus rapid transit daily passenger volume (2024)	
Urban rail (LRT, metro, tram) (2024)	289 km in 16 cities
Proportion of population that has convenient access to public transport (2020)  SDG 112	93.47%

## Intercity Rail

Rail network (2021)	17 305.2 km
Rail travel activity (2021)	27 693 million passenger-km
Rail freight activity (2021)	24262 million ton-km
High-speed rail (2023)	1097 km
High-speed rail travel activity (2017)	5290 million passenger-km
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National plans for passenger and freight rail expansion (2024)



- **Target**
- ► The accelerated implementation of a 5-year agreement between the ministry of transport and the national rail company
- ▶ The acceleration of procedures for approving rail
- projects, with the following planned investments

  High-speed train connections towards south Italy for
- freight and passengers

  High-speed train connections in the North of Italy
- Diagonal connections
- ▶ Development of European system for management of rail transport
- Improvement of metropolitan rail connections and national key hubs
- ▶ Improvement of regional railways
- ▶ Improvement, electrification, and resilience of railways in South Italy
- Improvement of rail stations in the South of Italy

Road Transport	
Total road vehicles in use per 1,000 people (2020)	749.5
Road vehicle fleet growth (from 2015 to 2020)	6.53%
Rural Access Index (2019) SDG 91	
Diesel prices (2022)	1.47 USD per litre
Gasoline prices (2022)	1.77 USD per litre
→ Aviation	
Air passengers carried (2021)	2.4 million people
Air freight activity (2021)	1150.7 million ton-km
Carbon-accredited airports (2023)	19 airports
of which carbon neutral:	7 airports
<b>&amp;</b> Shipping	
Logistics Performance Index (2023)	3.7
Liner shipping connectivity index (Q4 2024)	76.3
Container port traffic (2020)	9 800 000.0 TEU
Transport Energy Sources	
Biofuel blend overall mandate (2023)	10.0%
Biofuel blend biodiesel mandate (2023)	
Biofuel blend ethanol mandate (2023)	
Carbon intensity of electricity (2023)	323.45 gCO <sub>2</sub> /kWh
Renewable energy (biofuels and electricity) share in transport (2022) SDG 7.21	5.9% of total transport energy consumption
Biofuels (2022)	3.8% of total transport energy consumption
Electricity (2022)	2.1% of total transport energy consumption
Targeted renewable power share	7210%
Vehicle Technologies	
Emission standards for LDVs (2024)	Euro 4 and above
CO <sub>2</sub> emissions performance for passenger cars (2024)	89 g CO <sub>2</sub> /km in 2023
Targeted CO <sub>2</sub> emissions performance (2024)	0 g CO <sub>2</sub> /km by 2035
Regulatory environment ranking on used vehicles (2024)	
Electric vehicles stock for passenger cars (2024)	300 000 vehicles
Share of electric vehicles in car sales (2024)	7.9%
ICE phase-out targets	<b>(2035)</b>
Electric vehicles stock for vans (2024)	25 000 vehicles
Electric vehicles stock for trucks (2024)	

This fact sheet is part of the SLOCAT Transport, Climate and Sustainability Global Status Report –  $4^{\text{th}}$  Edition. The country fact sheets have been made possible thanks to financial support from the ClimateWorks Foundation. 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 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**.

### List of acronyms

List of acronyms
GDP Gross-domestic product
HDV Heavy-duty vehicle
ICE Internal combustion engine
KMh Killowatt-hour
LDV Light-duty vehicle
LRT Light-rail transit

Nationally determined contribution Primary, secondary or tertiary roads

Twenty-foot Equivalent Unit TeU Inverty-hot Equivalent Unit
UNEP United Nations Environment Programme
UNFCC United Nations Framework Convention on
Climate Change
Voluntary national review of the
Sustainable Developiment Goals
WLTP
Worldwide harmonised light vehicles test.

procedure













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