

Lao People's Democratic Republic

Transport Climate Profile

Population (2024)
7.7 million

Urban population
39%

Below 18 y.o.
38%

Population density
33 persons per sqkm

Rural population
61%

Above 60 y.o.
8%

Subregion
(1) South East Asia

Gross domestic product
(GDP PPP, 2022)
(1) 70.68 billion USD

Domestic consumption per capita, tonnes (2024)
(1) 15.2 tonnes

(1,2) *Domestic consumption is the total amount of materials directly used in the economy (used domestic extraction plus imports), minus the materials that are exported.*

Income class
Low and lower middle income

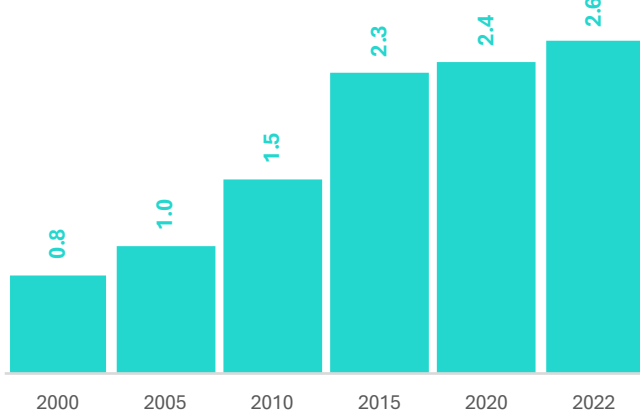
GDP per capita (PPP, 2022)
9,387 USD
(1,2)

(2)

(3)

Transport and Climate Change

Transport fossil CO2 emissions, million tonnes



(4)

In 2010, transport contributed 51.4% of total fossil CO2 emissions. By 2022, transport contributed 12.9%.

Share of transport CO2 emissions by mode (2022)

| Road **99.9%** | Rail **0.0%** (4)

| Navigation **0.0%** | Aviation **0.1%** (4)

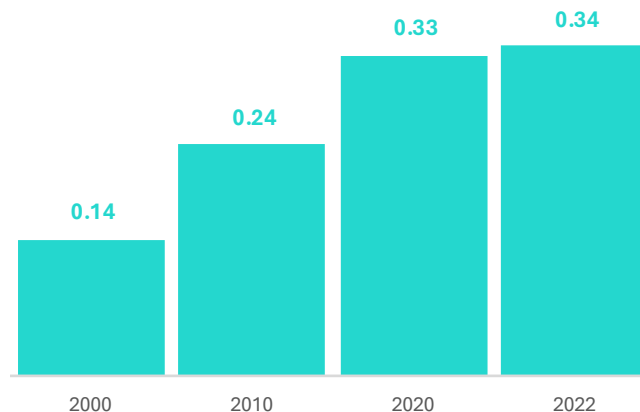
Navigation and aviation only includes domestic transportation

Between 2000-2015, road transport contributed 99.2% in transport fossil CO2 emissions. Between 2016-2022, road transport contributed 99.7%.

Transport CO2 emissions intensity with GDP, 2022
36.7 gCO2 per USD

Asia-Pacific average is 33.2 gCO2 per USD

Transport fossil CO2 emissions per capita, tonnes

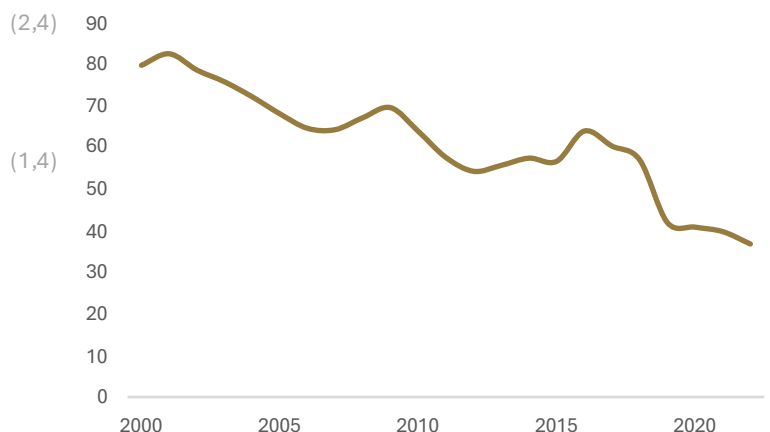


(2,4)

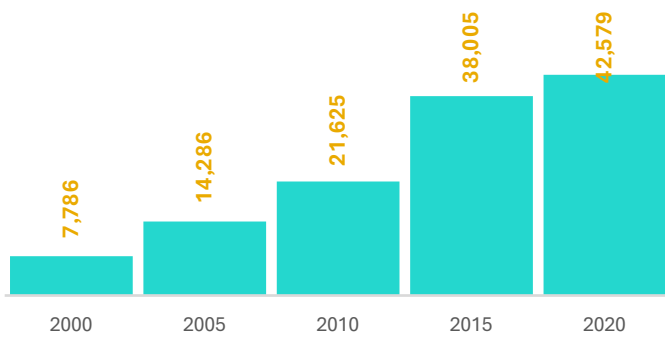
(1,4)

Transport CO2 emissions intensity with GDP trend, gCO2 per USD

(2,4)



Transport energy consumption, terajoules

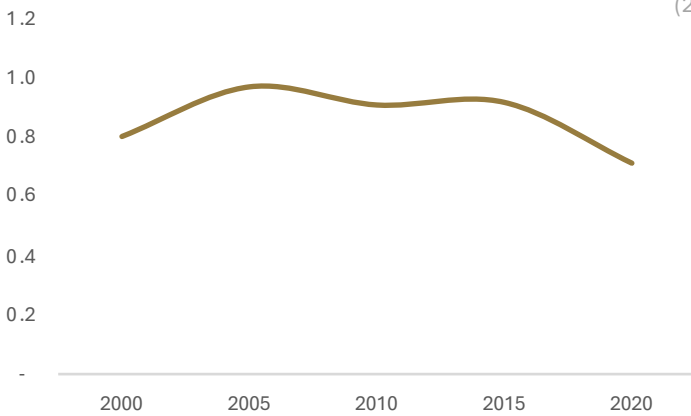


Transport energy intensity with GDP, 2020

0.7 MJ per USD

Asia-Pacific average is 0.5 MJ per USD

Transport energy intensity with GDP trend, MJ per USD

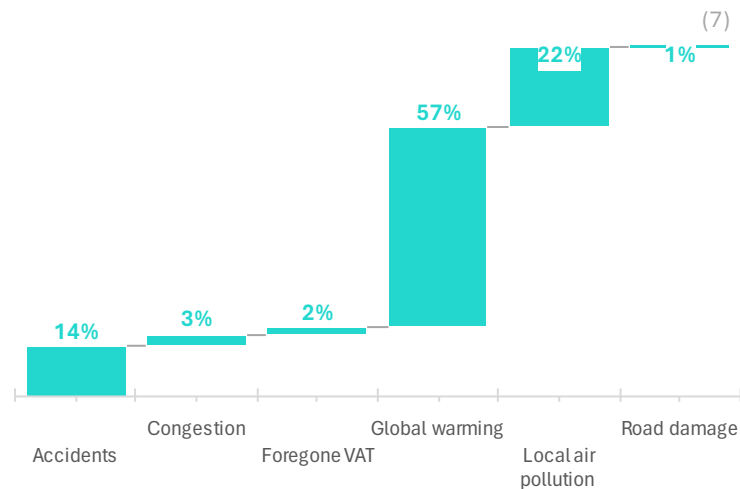


Transport fossil fuel subsidies, cumulative from 2010 to 2022

None

0.0% of Asia-Pacific total

Implicit fossil fuel subsidies due to externalities



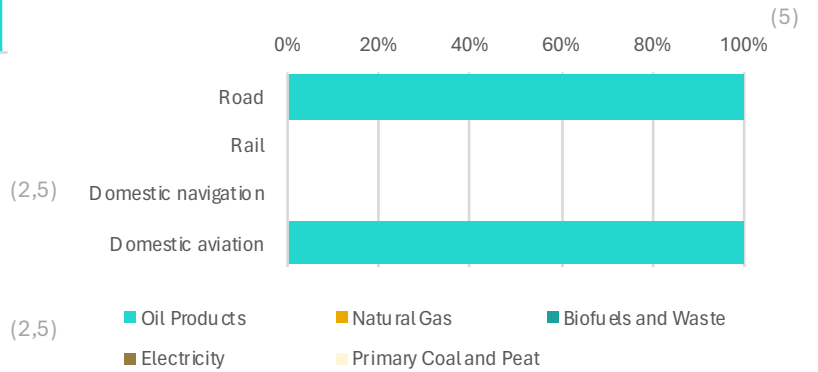
Data includes all sectors and all fuel types

Share of transport energy consumption by mode (2020)



Navigation and aviation only includes domestic transportation

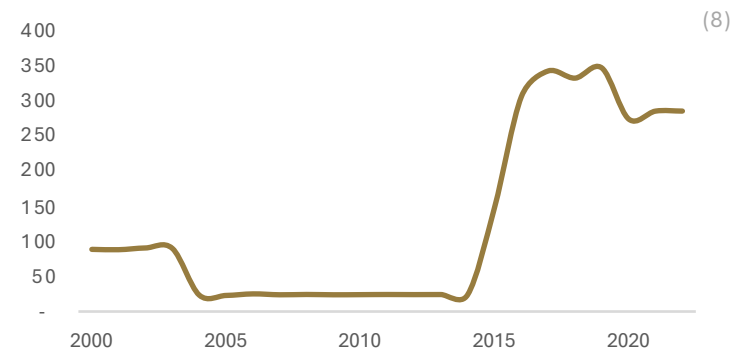
Share of transport energy consumption by source (2020)



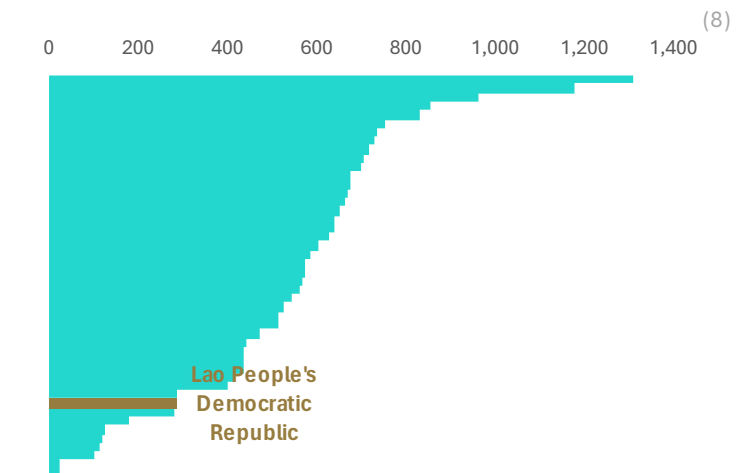
Grid emission factor (2022)

284.2 gCO2 per kWh

Grid emission factor trend, gCO2 per kWh



Grid emission factors in Asia-Pacific, gCO2 per kWh



Vehicle Fleet

Road vehicles (2022)
3.19 million vehicles

Road vehicle motorization rate (2022)
424 vehicles per thousand population

Road vehicles include 2- and 3-wheelers, LDVs, buses and other informal public transport, trucks, and other unclassified types

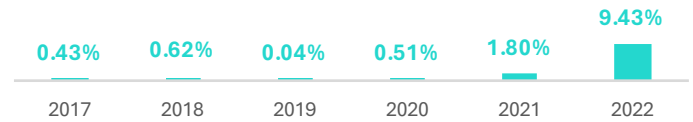
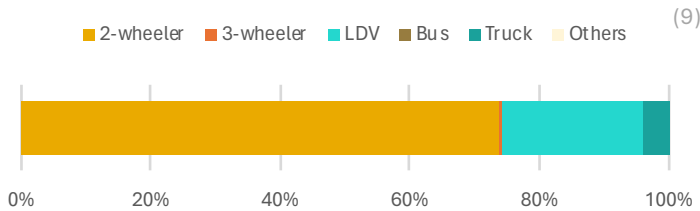
Electric road vehicle import value (2017-2022)

| Total **75.8 million USD** | Hybrid-electric **25.9 million USD**

Electric road vehicle share in total road vehicle import value trend

In 2000, Lao People's Democratic Republic had 60 vehicles per thousand population. By 2022, this has increased to 424 compared with Asia-Pacific average of 577 in 2022.

Share of vehicles by type

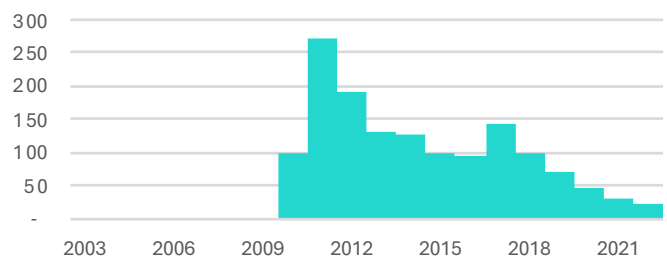


Bus vehicle production, units

Bus import value (2017-2022)

71.6 million USD

Bus import value trend, assuming 2015=100



Adaptation

Average annual losses to transport infrastructure due to hazards (2023)
5.34 million USD

Share of average annual losses due to hazards, by mode (2022)

Road 85%	Rail 14%
Ports 0%	Airports 1%

National road vulnerability index ranking (2023)

n.d.

Share of population in low elevated coastal zones (2018)

n.d.

Average annual losses to transport infrastructure due to hazards, as a share of GDP, in Asia-Pacific (2023)

0.00% 0.10% 0.20% 0.30% 0.40% 0.50%



Developed with the support of:



Urban Transport

Urban rapid transit length (2021)

| BRT **None** | LRT **None**

| Metro **None** (16)

Urban rapid transit ratio in Asia- Pacific, kilometers per million urban population (2021)

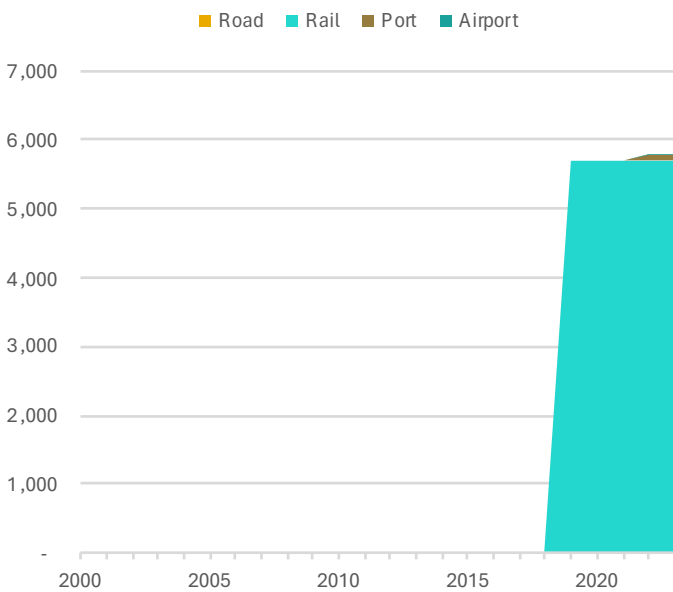
Urban rapid transit ratio (2021) **NA** (1,16)

Urban rapid transit ratio, kilometers per million urban population (2000-2021)

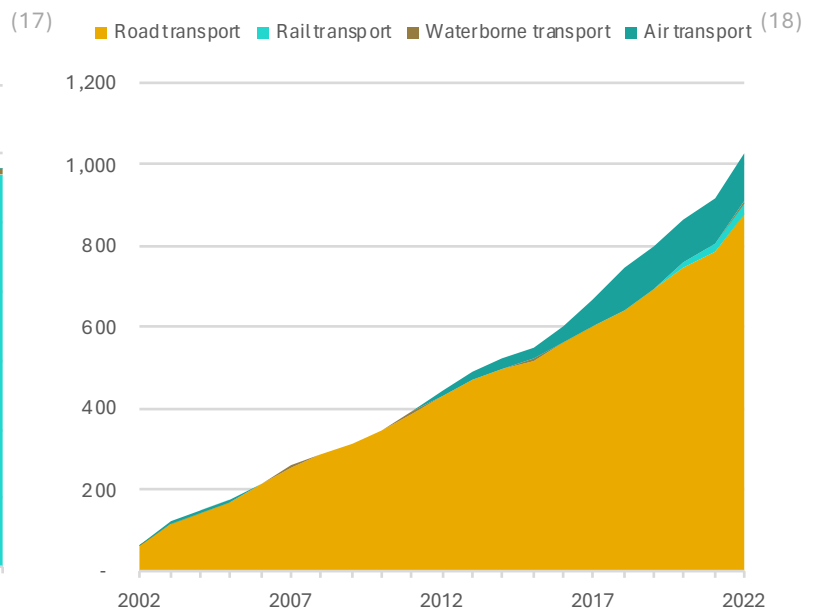
Based on 2015 estimates, only 14% of the population could reach the nearest city in 30 minutes, another 8% could reach in 1 hour, and another 32% could reach only after 3 hours.

Transport Investment

Public-private partnership investments in the transport sector, million USD

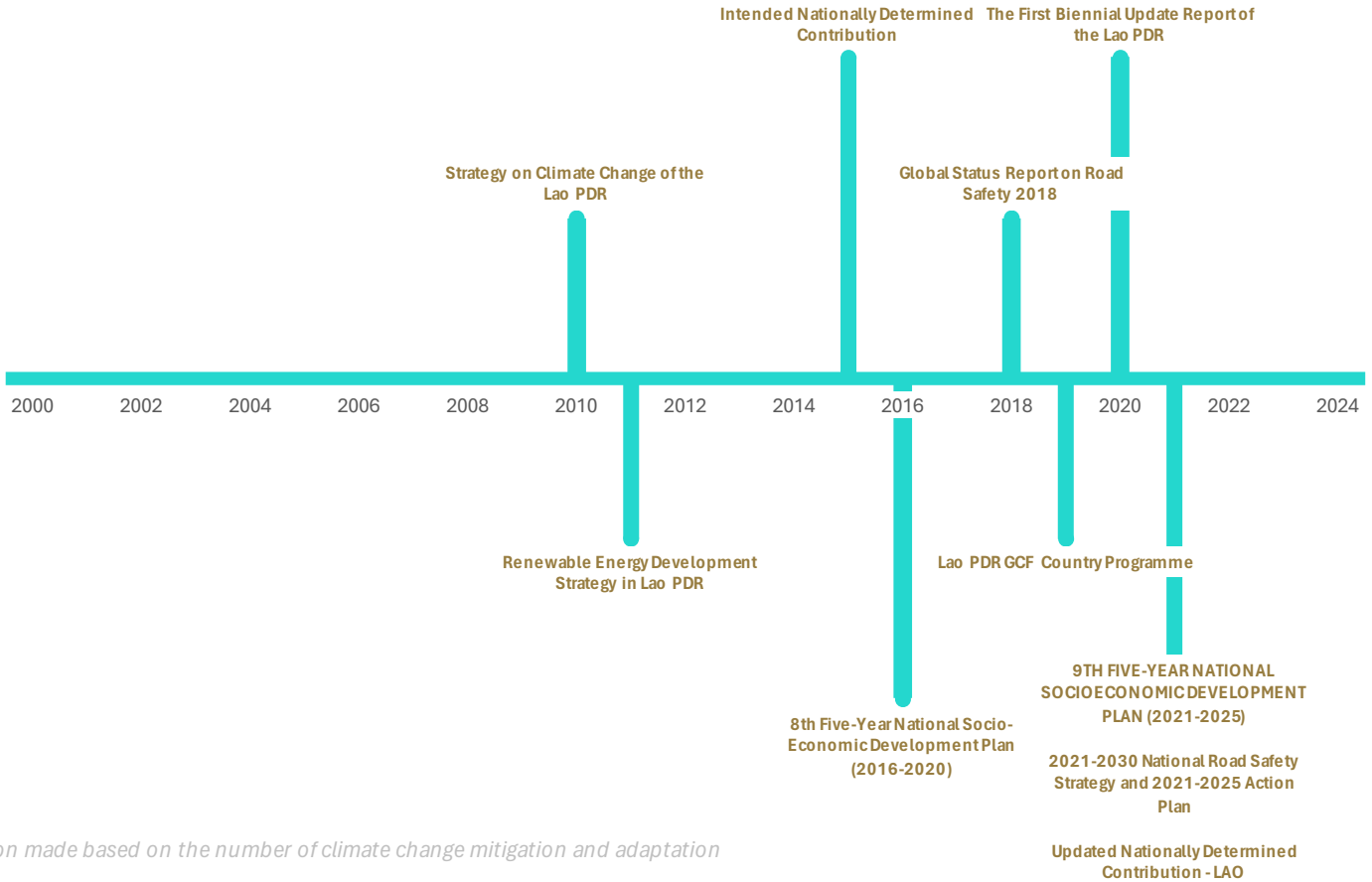


Official development assistance in the transport sector, million USD



Transport Climate Policy Documents

Transport-related policy documents in Lao People's Democratic Republic



Selection made based on the number of climate change mitigation and adaptation

Nationally Determined Contributions

Updated Nationally Determined Contribution - LAO (adopted in 2021)	Mitigation measures	Road transport	Rail transport	Domestic navigation	Domestic aviation	Urban transport
	Mitigation targets	Yes				Yes
	Adaptation measures	Yes	Yes	Yes	Yes	Yes
	Adaptation targets	Yes	Yes	Yes	Yes	Yes

Long-term Strategies

None	Mitigation measures	Road transport	Rail transport	Domestic navigation	Domestic aviation	Urban transport
	Mitigation targets					
	Adaptation measures					
	Adaptation targets					

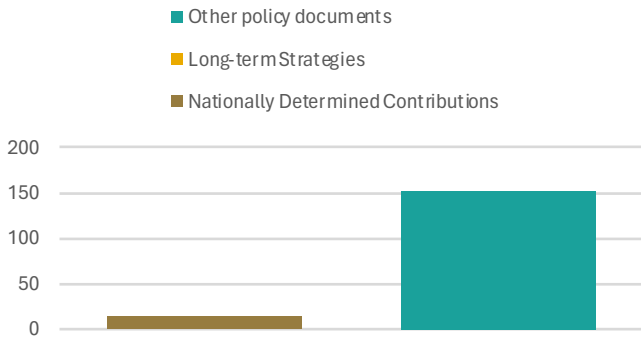


Developed with the support of:

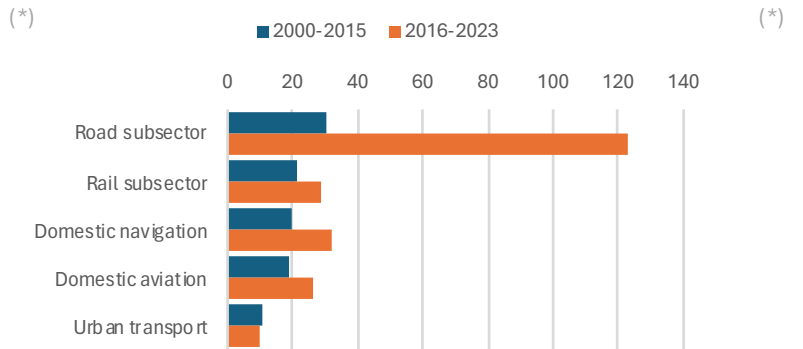


Transport Climate Policy Overview

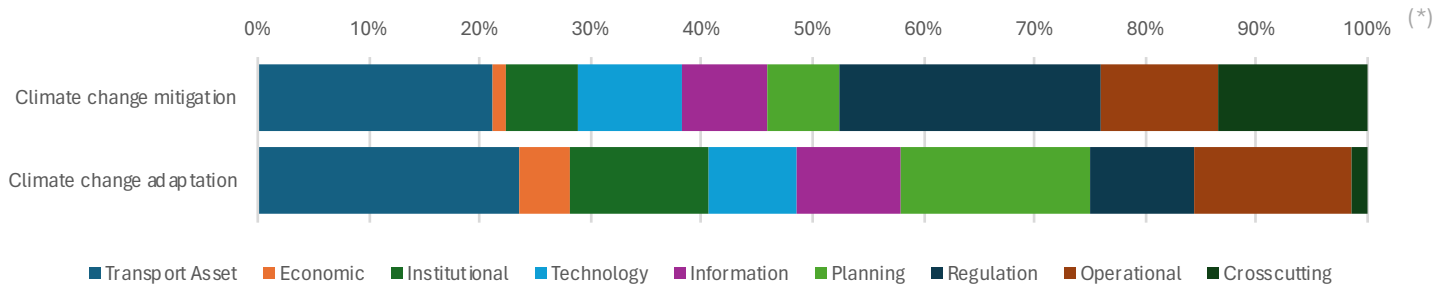
Number of measures by source



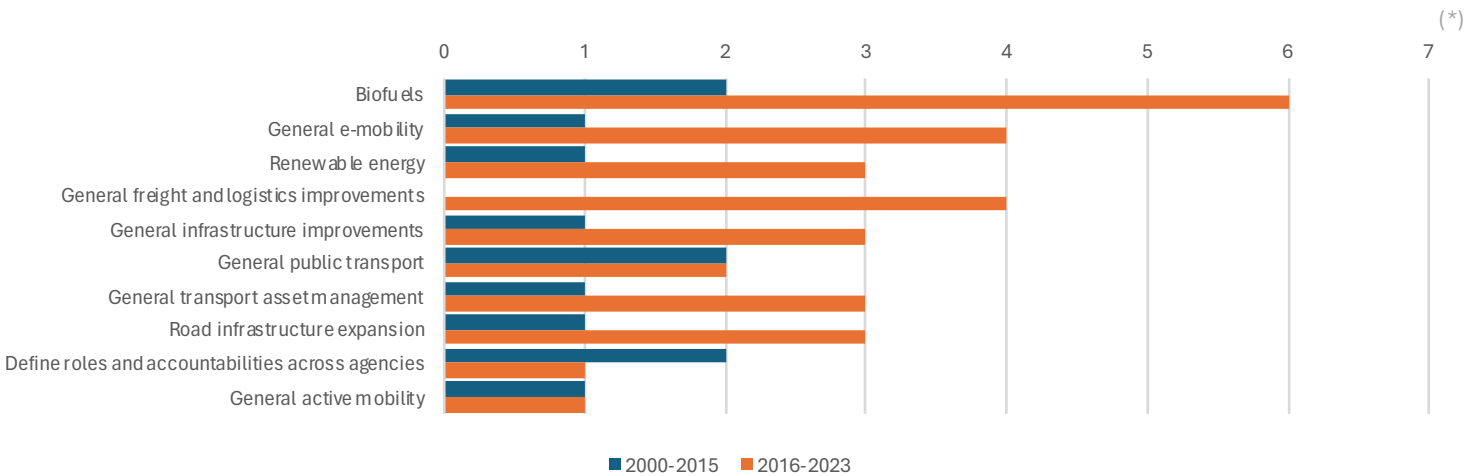
Number of climate change measures by subsectors



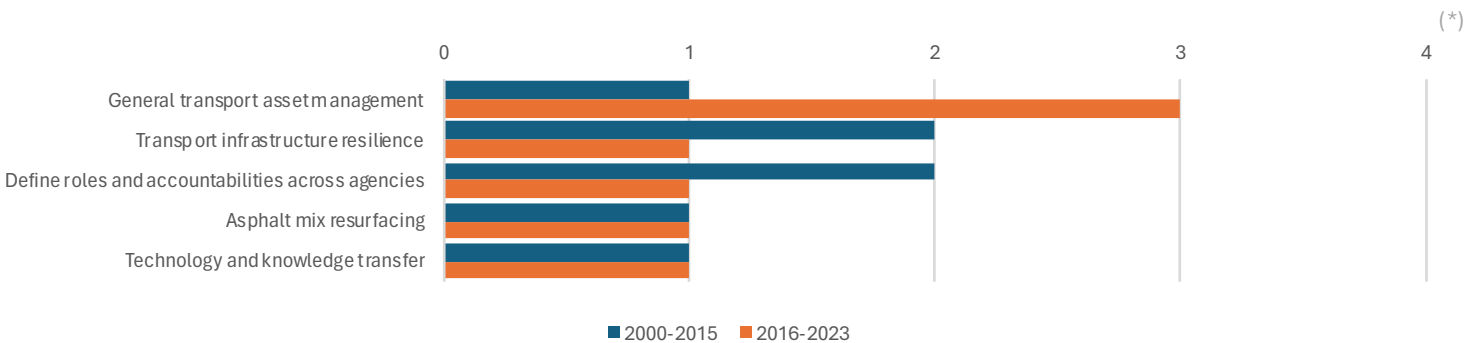
Transport-related climate change by framework



Climate change mitigation top 10 typology, number of measures



Climate change adaptation top 5 typology, number of measures



Climate Change Mitigation Policy Measures - Road Transport

Policy document	Year	Measures
Strategy on Climate Change of the Lao PDR	2010	Alternatively-powered rolling stock, General transport asset management, General education and behavior change
8th Five-Year National Socio-Economic Development Plan (2016-2020)	2016	General freight and logistics improvements, General infrastructure improvements, Asphalt mix resurfacing, General transport asset management, Technology and knowledge transfer, Road infrastructure expansion, Reporting, transparency, feedback mechanism, Development of other transport-related plan/ policy, Transport law
Urban Development Sector Assessment, Strategy, and Road Map	2012	Asphalt mix resurfacing, General transport finance, Development of transport plan/ policy
9TH FIVE-YEAR NATIONAL SOCIOECONOMIC DEVELOPMENT PLAN (2021-2025)	2021	EV charging infrastructure, Renewable energy, General e-mobility, General freight and logistics improvements, General infrastructure improvements, Technical standards for road infrastructure, Biofuels, Target - Transport activity, General transport asset management, Logistics hub, Road infrastructure expansion, Road-side checks on overloading
Intended Nationally Determined Contribution	2015	Renewable energy, Biofuels, General public transport, General capacity building, Road infrastructure expansion, Define roles and accountabilities across agencies
Lao PDR GCF Country Programme	2019	General active mobility, Renewable energy, General e-mobility, General freight and logistics improvements, Biofuels, BRT, General public transport, Development of climate change/ low carbon plan/ policy, Development of other transport-related plan/ policy
Renewable Energy Development Strategy in Lao PDR	2011	Hydrogen, General e-mobility, Biofuels, General alternative fuels, Technology and knowledge transfer, Define roles and accountabilities across agencies, Development of transport plan/ policy
The First Biennial Update Report of the Lao PDR	2020	Renewable energy, General e-mobility, Biofuels, General public transport, Target - Transport GHG emission, General commuter trip reduction
Updated Nationally Determined Contribution - LAO	2021	General e-mobility, Biofuels, BRT
Voluntary National Review 2021 - LAO	2021	Biofuels
59 UN Transport Agreements/ and Conventions Serviced by ECE	2021	Convention on Road Traffic 1949
2021-2030 National Road Safety Strategy and 2021-2025 Action Plan	2021	Vehicle inspection and maintenance, Technical standards for road infrastructure, Technical standards for general transport infrastructure, Vehicle labelling, Transport asset management information system, Transport asset condition assessment, General transport asset management, Reference to finance mechanisms within country, Training of enforcement authorities, General capacity building, Define roles and accountabilities across agencies, Reporting, transparency, feedback mechanism, General education and behavior change, General vehicle improvements
Global Status Report on Road Safety 2018	2018	Design standards for sidewalks and bicycle paths, National speed law, Speed limits on urban roads <= 30 kph, Speed limit on rural roads <= 70 kph
Technology Needs Assessment Report Climate Change Mitigation	2013	General active mobility, General infrastructure improvements, General alternative fuels, General public transport
Vision to 2030 and 10-Year Socio-economic Development Strategy	2016	General infrastructure improvements
Road Safety Opportunities and Challenges: Low- and Middle-Income Country Profiles	2020	Vehicle inspection and maintenance, Vehicle import inspections

Climate Change Mitigation Targets - Road Transport

Policy document	Target year	Targets
9TH FIVE-YEAR NATIONAL SOCIOECONOMIC DEVELOPMENT PLAN (2021-2025)	2025	Build more than 100 charging stations/bio-fuel stations nationwide (20 stations in the northern region, 50 stations in the central region and 30 stations in the southern region);
Intended Nationally Determined Contribution	2025	For transport fuels the objective is to increase the share of biofuels to meet 10% of the demand for transport fuels by 2025.
Lao PDR GCF Country Programme	2025	Increase the share of biofuels to meet 10% of the demand for transport fuels by 2025.
The First Biennial Update Report of the Lao PDR	2025	10% of the fuel use in transport sector replaced by biofuel by 2025
Updated Nationally Determined Contribution - LAO	2030	Conditional: Biofuels to meet 10% of transport fuels
Voluntary National Review 2021 - LAO	2025	To expand biofuel development, Lao PDR is creating a national program with a goal of introducing 10% biofuel in the transport sector by 2025
Updated Nationally Determined Contribution - LAO	2030	Conditional: 30% Electric Vehicles penetration for 2-wheelers and passengers' cars in national vehicles mix
9TH FIVE-YEAR NATIONAL SOCIOECONOMIC DEVELOPMENT PLAN (2021-2025)	2025	Build, upgrade, rehabilitate and maintain 2,800 km of land transport infrastructure, including roads, bridges and express ways as part of the network along the economic corridors connecting the countries in the region in accordance with ASEAN technical standards.
9TH FIVE-YEAR NATIONAL SOCIOECONOMIC DEVELOPMENT PLAN (2021-2025)	2025	Implement strategies to promote the use of clean energy in the transportation sector to reach 14% of the use of vehicles nationwide
Intended Nationally Determined Contribution	2025	To increase the share of renewable energy to 30% of energy consumption by 2025 - Economy wide
Lao PDR GCF Country Programme	2025	Economy wide: Implement the Renewable Energy Development Strategy, i.e. to increase the share of renewable energy to 30% of energy consumption by 2025. (Note that large scale technologies with installed capacity equal to or greater than 15MW are not included in this target).
The First Biennial Update Report of the Lao PDR	2025	Renewable energy shares 30% of energy consumption by 2025 - Economy wide
9TH FIVE-YEAR NATIONAL SOCIOECONOMIC DEVELOPMENT PLAN (2021-2025)	2025	Increase the volume of passenger transport in the transport connectivity network with countries in the region, via all modes of transport: road by 7% per year, waterways by 5%, airways by 12%, railway by 3-5%;
The First Biennial Update Report of the Lao PDR	2030	15% of the emissions in transport sector reduced by 2030
2021-2030 National Road Safety Strategy and 2021-2025 Action Plan	2025	New vehicles must meet UN safety standards at least 7 out of 8 priorities = 87,5%

Climate Change Mitigation Policy Measures - Rail Transport

Policy document	Year	Measures
9TH FIVE-YEAR NATIONAL SOCIOECONOMIC DEVELOPMENT PLAN (2021-2025)	2021	Renewable energy, General freight and logistics improvements, General infrastructure improvements, General rail improvement, Biofuels, Target - Transport activity, Logistics hub, Rail infrastructure expansion
Intended Nationally Determined Contribution	2015	Renewable energy, Biofuels, General public transport, General capacity building, Define roles and accountabilities across agencies
Lao PDR GCF Country Programme	2019	Renewable energy, General freight and logistics improvements, Biofuels, Development of climate change/ low carbon plan/ policy, Development of other transport-related plan/ policy
Renewable Energy Development Strategy in Lao PDR	2011	Biofuels, General alternative fuels, Technology and knowledge transfer, Define roles and accountabilities across agencies, Development of transport plan/ policy
The First Biennial Update Report of the Lao PDR	2020	Renewable energy, Biofuels, General public transport
Updated Nationally Determined Contribution - LAO	2021	Biofuels
Voluntary National Review 2021 - LAO	2021	Biofuels
Urban Development Sector Assessment, Strategy, and Road Map	2012	General transport finance, Development of transport plan/ policy
Technology Needs Assessment Report Climate Change Mitigation	2013	General infrastructure improvements, General alternative fuels
Strategy on Climate Change of the Lao PDR	2010	General education and behavior change
8th Five-Year National Socio-Economic Development Plan (2016-2020)	2016	General freight and logistics improvements, General infrastructure improvements, Technology and knowledge transfer, Rail infrastructure expansion, Reporting, transparency, feedback mechanism, Transport law
Vision to 2030 and 10-Year Socio-economic Development Strategy	2016	General infrastructure improvements

Climate Change Mitigation Targets - Rail Transport

Policy document	Target year	Targets
9TH FIVE-YEAR NATIONAL SOCIOECONOMIC DEVELOPMENT PLAN (2021-2025)	2025	Build more than 100 charging stations/bio-fuel stations nationwide (20 stations in the northern region, 50 stations in the central region and 30 stations in the southern region);
Intended Nationally Determined Contribution	2025	For transport fuels the objective is to increase the share of biofuels to meet 10% of the demand for transport fuels by 2025.
Lao PDR GCF Country Programme	2025	Increase the share of biofuels to meet 10% of the demand for transport fuels by 2025.
The First Biennial Update Report of the Lao PDR	2025	10% of the fuel use in transport sector replaced by biofuel by 2025
Updated Nationally Determined Contribution - LAO	2030	Conditional: Biofuels to meet 10% of transport fuels
Voluntary National Review 2021 - LAO	2025	To expand biofuel development, Lao PDR is creating a national program with a goal of introducing 10% biofuel in the transport sector by 2025
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9TH FIVE-YEAR NATIONAL SOCIOECONOMIC DEVELOPMENT PLAN (2021-2025)	2025	Increase the volume of passenger transport in the transport connectivity network with countries in the region, via all modes of transport: road by 7% per year, waterways by 5%, airways by 12%, railway by 3-5%;
9TH FIVE-YEAR NATIONAL SOCIOECONOMIC DEVELOPMENT PLAN (2021-2025)	2025	Increase freight volume in the transport connectivity network with countries in the region, via all modes of transport: road by 7% per year, waterways by 5%, airways by 12%, railway by 3-5%

Climate Change Mitigation Policy Measures - Domestic Navigation

Policy document	Year	Measures
9TH FIVE-YEAR NATIONAL SOCIOECONOMIC DEVELOPMENT PLAN (2021-2025)	2021	Renewable energy, General freight and logistics improvements, General infrastructure improvements, General inland waterways (IWT) improvement, Biofuels, General shipping improvement, Target - Transport activity, Logistics hub, Port infrastructure improvements
Intended Nationally Determined Contribution	2015	Renewable energy, Biofuels, General public transport, General capacity building, Define roles and accountabilities across agencies
Lao PDR GCF Country Programme	2019	Renewable energy, General freight and logistics improvements, Biofuels, Development of climate change/ low carbon plan/ policy
Renewable Energy Development Strategy in Lao PDR	2011	Biofuels, General alternative fuels, Technology and knowledge transfer, Define roles and accountabilities across agencies, Development of transport plan/ policy
The First Biennial Update Report of the Lao PDR	2020	Renewable energy, Biofuels, General public transport
Updated Nationally Determined Contribution - LAO	2021	Biofuels
Voluntary National Review 2021 - LAO	2021	Biofuels
8th Five-Year National Socio-Economic Development Plan (2016-2020)	2016	General freight and logistics improvements, General infrastructure improvements, General inland waterways (IWT) improvement, Technical standards for general transport infrastructure, Technology and knowledge transfer, Port infrastructure improvements, Reporting, transparency, feedback mechanism, Development of other transport-related plan/ policy, Transport law
Technology Needs Assessment Report Climate Change Mitigation	2013	General infrastructure improvements, General alternative fuels
Strategy on Climate Change of the Lao PDR	2010	General education and behavior change
Vision to 2030 and 10-Year Socio-economic Development Strategy	2016	General infrastructure improvements
Urban Development Sector Assessment, Strategy, and Road Map	2012	General transport finance

Climate Change Mitigation Targets - Domestic Navigation

Policy document	Target year	Targets
9TH FIVE-YEAR NATIONAL SOCIOECONOMIC DEVELOPMENT PLAN (2021-2025)	2025	Build more than 100 charging stations/bio-fuel stations nationwide (20 stations in the northern region, 50 stations in the central region and 30 stations in the southern region);
Intended Nationally Determined Contribution	2025	For transport fuels the objective is to increase the share of biofuels to meet 10% of the demand for transport fuels by 2025.
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The First Biennial Update Report of the Lao PDR	2025	10% of the fuel use in transport sector replaced by biofuel by 2025
Updated Nationally Determined Contribution - LAO	2030	Conditional: Biofuels to meet 10% of transport fuels
Voluntary National Review 2021 - LAO	2025	To expand biofuel development, Lao PDR is creating a national program with a goal of introducing 10% biofuel in the transport sector by 2025
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Lao PDR GCF Country Programme	2025	Economy wide: Implement the Renewable Energy Development Strategy, i.e. to increase the share of renewable energy to 30% of energy consumption by 2025. (Note that large scale technologies with installed capacity equal to or greater than 15MW are not included in this target).
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9TH FIVE-YEAR NATIONAL SOCIOECONOMIC DEVELOPMENT PLAN (2021-2025)	2025	Increase freight volume in the transport connectivity network with countries in the region, via all modes of transport: road by 7% per year, waterways by 5%, airways by 12%, railway by 3-5%

Climate Change Mitigation Policy Measures - Domestic Aviation

Policy document	Year	Measures
9TH FIVE-YEAR NATIONAL SOCIOECONOMIC DEVELOPMENT PLAN (2021-2025)	2021	Renewable energy, General freight and logistics improvements, General infrastructure improvements, Biofuels, Target - Transport activity, Logistics hub
Intended Nationally Determined Contribution	2015	Renewable energy, Biofuels, General capacity building, Define roles and accountabilities across agencies
Lao PDR GCF Country Programme	2019	Renewable energy, General freight and logistics improvements, Biofuels, Development of climate change/ low carbon plan/ policy
Renewable Energy Development Strategy in Lao PDR	2011	Biofuels, General alternative fuels, Technology and knowledge transfer, Define roles and accountabilities across agencies, Development of transport plan/ policy
The First Biennial Update Report of the Lao PDR	2020	Renewable energy, Biofuels
Updated Nationally Determined Contribution - LAO	2021	Biofuels
Voluntary National Review 2021 - LAO	2021	Biofuels
8th Five-Year National Socio-Economic Development Plan (2016-2020)	2016	General infrastructure improvements, Technical standards for general transport infrastructure, Technology and knowledge transfer, Reporting, transparency, feedback mechanism, Development of other transport-related plan/ policy, Transport law
Technology Needs Assessment Report Climate Change Mitigation	2013	General infrastructure improvements, General alternative fuels
Strategy on Climate Change of the Lao PDR	2010	General education and behavior change
Vision to 2030 and 10-Year Socio-economic Development Strategy	2016	General infrastructure improvements
Urban Development Sector Assessment, Strategy, and Road Map	2012	General transport finance

Climate Change Mitigation Targets - Domestic Aviation

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9TH FIVE-YEAR NATIONAL SOCIOECONOMIC DEVELOPMENT PLAN (2021-2025)	2025	Build more than 100 charging stations/bio-fuel stations nationwide (20 stations in the northern region, 50 stations in the central region and 30 stations in the southern region);
Intended Nationally Determined Contribution	2025	For transport fuels the objective is to increase the share of biofuels to meet 10% of the demand for transport fuels by 2025.
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Climate Change Mitigation Policy Measures - Urban Transport

Policy document	Year	Measures
Urban Development Sector Assessment, Strategy, and Road Map	2012	Asphalt mix resurfacing, Development of transport plan/ policy
Lao PDR GCF Country Programme	2019	General freight and logistics improvements, BRT, General public transport, Development of other transport-related plan/ policy
Updated Nationally Determined Contribution - LAO	2021	BRT
Renewable Energy Development Strategy in Lao PDR	2011	Hydrogen, General e-mobility, General alternative fuels, Technology and knowledge transfer, Define roles and accountabilities across agencies
Intended Nationally Determined Contribution	2015	General capacity building
The First Biennial Update Report of the Lao PDR	2020	General e-mobility
8th Five-Year National Socio-Economic Development Plan (2016-2020)	2016	General infrastructure improvements
9TH FIVE-YEAR NATIONAL SOCIOECONOMIC DEVELOPMENT PLAN (2021-2025)	2021	General infrastructure improvements
Global Status Report on Road Safety 2018	2018	Speed limits on urban roads \leq 30 kph

Climate Change Adaptation Policy Measures

Policy document	Year	Measures
8th Five-Year National Socio-Economic Development Plan (2016-2020)	2016	Asphalt mix resurfacing, General transport asset management, Technology and knowledge transfer, Rail infrastructure expansion, Reporting, transparency, feedback mechanism, Transport law (Sub-sectors: Road transport, Rail transport, Domestic Navigation, Domestic Aviation)
Urban Development Sector Assessment, Strategy, and Road Map	2012	Asphalt mix resurfacing, General transport finance, Development of transport plan/ policy (Sub-sectors: Road transport, Rail transport, Domestic Navigation, Domestic Aviation, Urban transport)
Intended Nationally Determined Contribution	2015	Climate-resilient design standards, Transport infrastructure resilience, General capacity building, Define roles and accountabilities across agencies (Sub-sectors: Road transport, Rail transport, Domestic Navigation, Domestic Aviation, Urban transport)
2021-2030 National Road Safety Strategy and 2021-2025 Action Plan	2021	Transport asset management information system, Transport asset condition assessment, General transport asset management, Reference to finance mechanisms within country, General capacity building, Define roles and accountabilities across agencies, General vehicle improvements (Sub-sectors: Road transport)
Renewable Energy Development Strategy in Lao PDR	2011	Technology and knowledge transfer, Define roles and accountabilities across agencies, Development of transport plan/ policy (Sub-sectors: Road transport, Rail transport, Domestic Navigation, Domestic Aviation, Urban transport)
Lao PDR GCF Country Programme	2019	Development of other transport-related plan/ policy (Sub-sectors: Road transport, Rail transport, Urban transport)
Strategy on Climate Change of the Lao PDR	2010	Resilient transport technologies , Relocation from climate-risk areas, Transport infrastructure resilience, General transport asset management, Development of transport adaptation/ emergency/ disaster plan/ policy, Disaster monitoring and risk assessment for transport infrastructure (Sub-sectors: Road transport, Rail transport, Domestic Navigation, Domestic Aviation, Urban transport)
Updated Nationally Determined Contribution - LAO	2021	Transport infrastructure resilience, Development of transport adaptation/ emergency/ disaster plan/ policy (Sub-sectors: Road transport, Rail transport, Domestic Navigation, Domestic Aviation, Urban transport)
9TH FIVE-YEAR NATIONAL SOCIOECONOMIC DEVELOPMENT PLAN (2021-2025)	2021	General transport asset management, Rail infrastructure expansion (Sub-sectors: Road transport, Rail transport)

Climate Change Adaptation Targets

Policy document	Target year	Targets
9TH FIVE-YEAR NATIONAL SOCIOECONOMIC DEVELOPMENT PLAN (2021-2025)	2025	Build, upgrade, rehabilitate and maintain 2,800 km of land transport infrastructure, including roads, bridges and express ways as part of the network along the economic corridors connecting the countries in the region in accordance with ASEAN technical standards.

Notes



(*) Policy measures and targets were extracted from policy documents as listed in the ATO National Transport Policies Database

<https://bit.ly/ATOpolicyrepository>

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