

# Kyrgyz Republic

## Transport Climate Profile

Population (2024)  
**6.8 million**

Urban population  
**38%**

Below 18 y.o.  
**41%**

Population density  
**35 persons per sqkm**

Rural population  
**62%**

Above 60 y.o.  
**8%**

Subregion  
(1) **Central and West Asia**

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

(1) Domestic consumption per capita, tonnes (2024)  
**7.4 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)  
**6,300 USD** (1,2)  
(2)

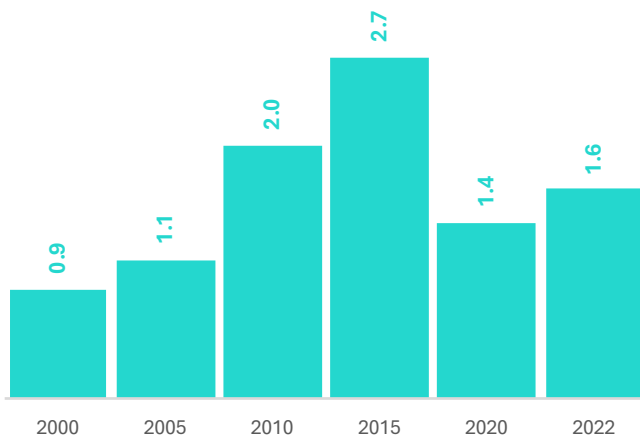
(3)

## Transport and Climate Change

Transport fossil CO2 emissions, million tonnes

(4)

*In 2010, transport contributed 30.6% of total fossil CO2 emissions. By 2022, transport contributed 15.9%.*



Share of transport CO2 emissions by mode (2022)

| Road **98.3%** | Rail **1.5%** (4)

| Navigation **0.0%** | Aviation **0.2%** (4)

*Navigation and aviation only includes domestic transportation*

*Between 2000-2015, road transport contributed 99.8% in transport fossil CO2 emissions. Between 2016-2022, road transport contributed 98.6%.*

Transport CO2 emissions intensity with GDP, 2022  
**39.2 gCO2 per USD**

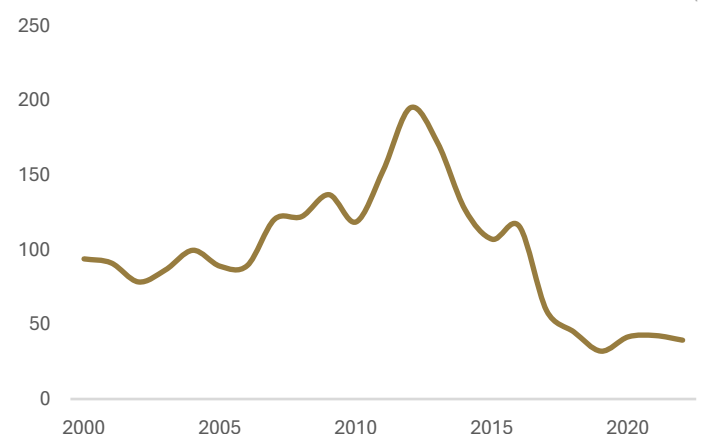
*Asia-Pacific average is 33.2 gCO2 per USD*

(2,4)

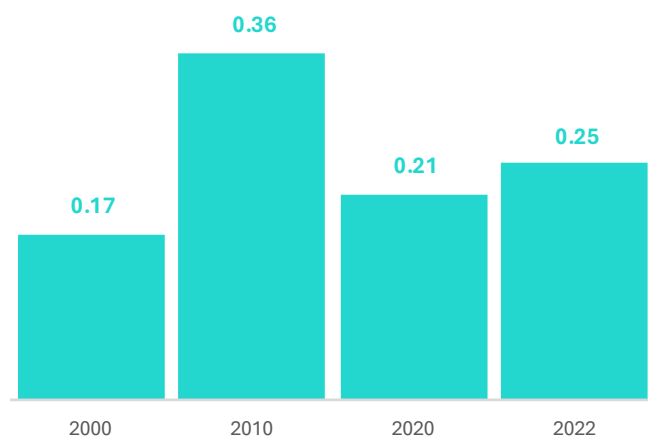
Transport CO2 emissions intensity with GDP trend, gCO2 per USD

(2,4)

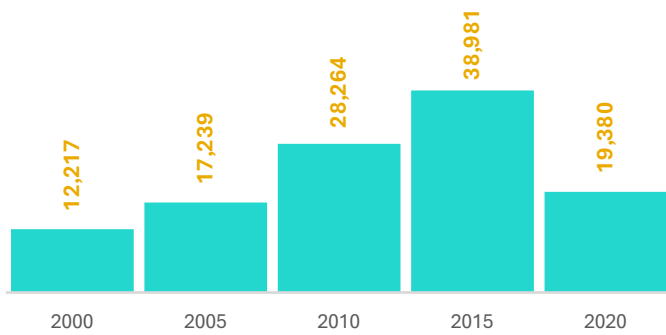
(1,4)



Transport fossil CO2 emissions per capita, tonnes



Transport energy consumption, terajoules

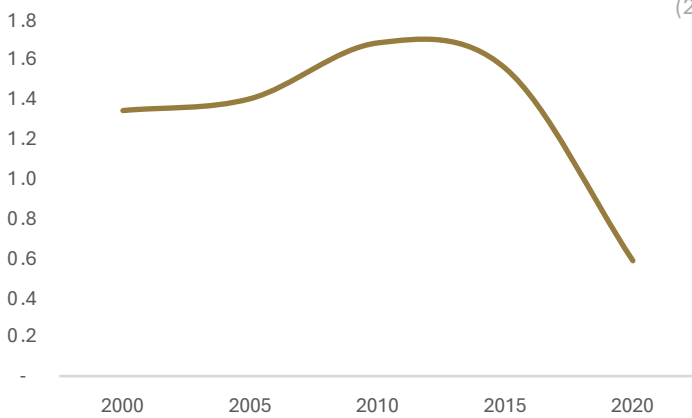


Transport energy intensity with GDP, 2020

**0.6 MJ per USD**

Asia-Pacific average is 0.5 MJ per USD

Transport energy intensity with GDP trend, MJ per USD

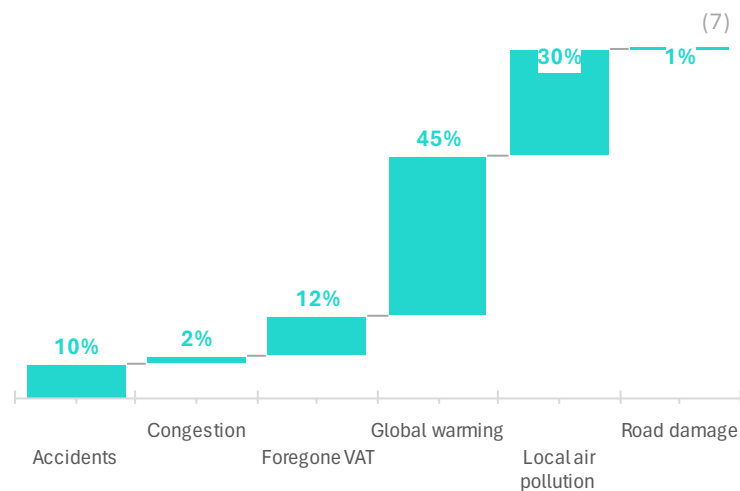


Transport fossil fuel subsidies, cumulative from 2010 to 2022

**None**

0.0% of Asia-Pacific total

Implicit fossil fuel subsidies due to externalities



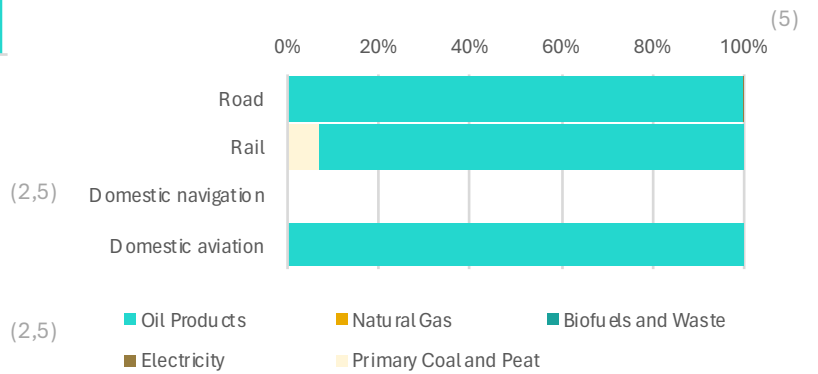
Data includes all sectors and all fuel types

Share of transport energy consumption by mode (2020)

(5)	Road	Rail	(5)
	<b>97.9%</b>	<b>1.4%</b>	
	Navigation	Aviation	(5)
	<b>0.0%</b>	<b>0.7%</b>	

Navigation and aviation only includes domestic transportation

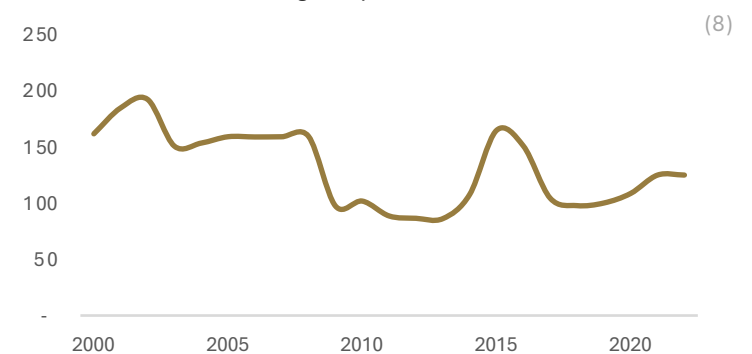
Share of transport energy consumption by source (2020)



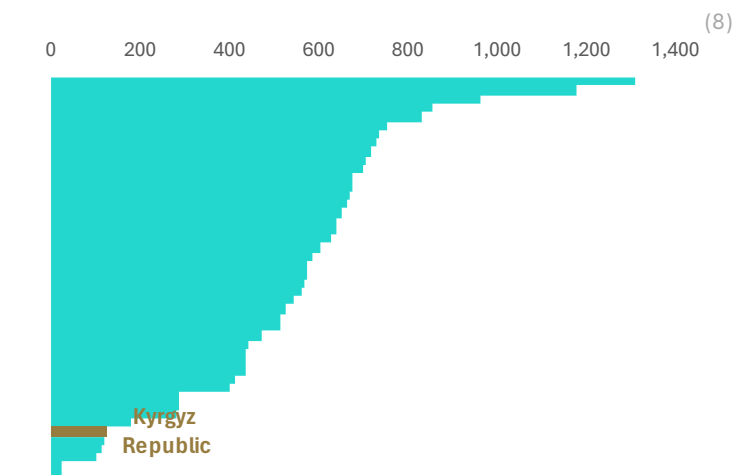
Grid emission factor (2022)

**124.5 gCO<sub>2</sub> per kWh**

Grid emission factor trend, gCO<sub>2</sub> per kWh



Grid emission factors in Asia-Pacific, gCO<sub>2</sub> per kWh



Vehicle Fleet

Road vehicles (2023)  
n.d.

Road vehicle motorization rate (2023)  
n.d.

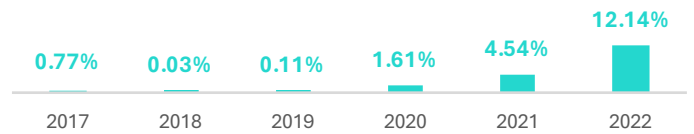
Road vehicles include 2- and 3-wheelers, LDVs, buses and other informal public transport, trucks, and other unclassified types

Electric road vehicle import value (2017-2022)

(9) | Total **107.3 million USD** | Hybrid-electric **54.7 million USD** (11)

(1,9) Electric road vehicle share in total road vehicle import value trend (11)

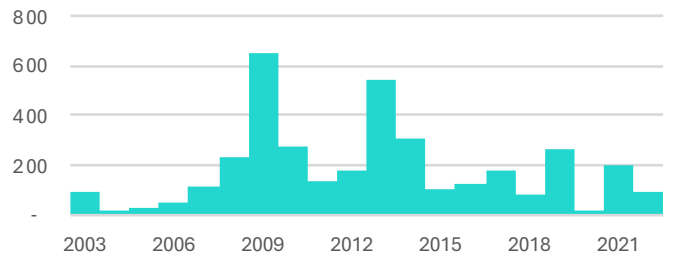
Share of vehicles by type



Bus vehicle production, units

Bus import value (2017-2022)  
**25.1 million USD** (11)

(10) Bus import value trend, assuming 2015=100 (11)



Adaptation

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

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

Road	Rail
<b>85%</b>	<b>13%</b>
Ports	Airports
<b>0%</b>	<b>2%</b>

National road vulnerability index ranking (2023)  
**164th out of 208 countries**

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)

(12) 0.00% 0.10% 0.20% 0.30% 0.40% 0.50% (12)



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)

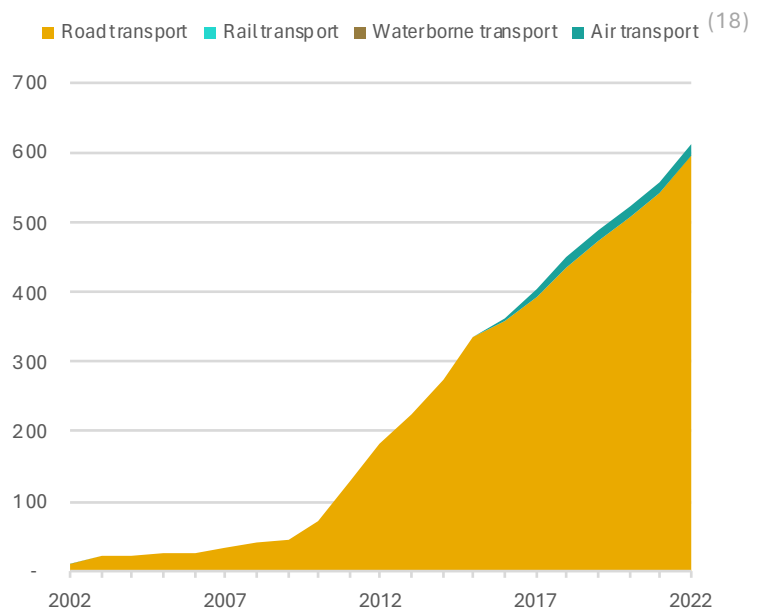
Urban rapid transit ratio, kilometers per million urban population (2000-2021)

*Based on 2015 estimates, only 52% of the population could reach the nearest city in 30 minutes, another 10% could reach in 1 hour, and another 23% could reach only after 3 hours.*

## Transport Investment

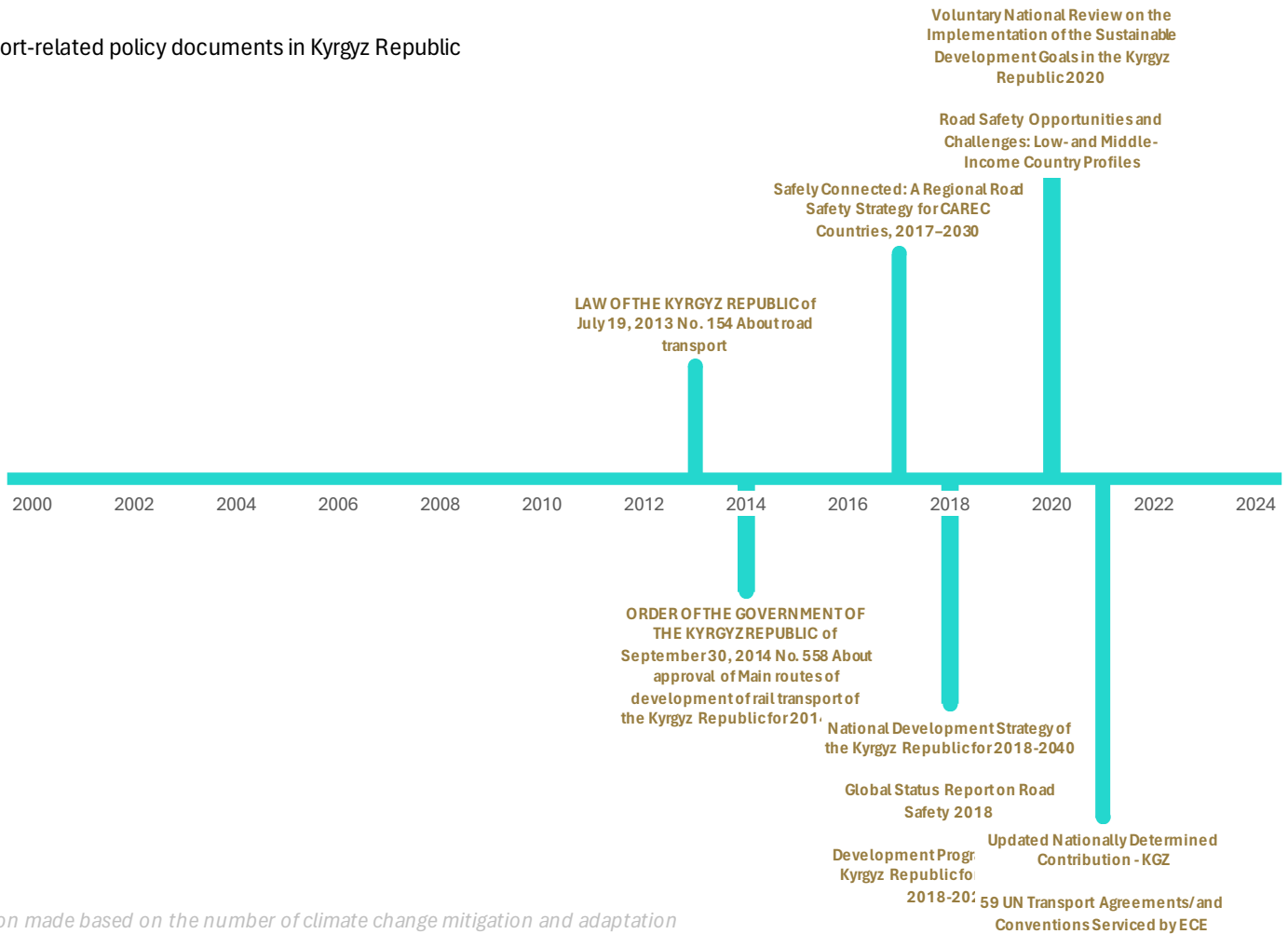
Public-private partnership investments in the transport sector, million USD

Official development assistance in the transport sector, million USD



## Transport Climate Policy Documents

Transport-related policy documents in Kyrgyz Republic



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

## Nationally Determined Contributions

		Road transport	Rail transport	Domestic navigation	Domestic aviation	Urban transport
<b>Updated Nationally Determined Contribution - KGZ (adopted in 2021)</b>	Mitigation measures	Yes				Yes
	Mitigation targets					
	Adaptation measures					
	Adaptation targets					

## Long-term Strategies

		Road transport	Rail transport	Domestic navigation	Domestic aviation	Urban transport
<b>None</b>	Mitigation measures					
	Mitigation targets					
	Adaptation measures					
	Adaptation targets					

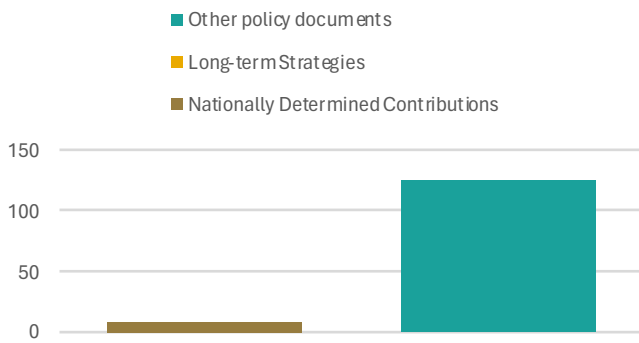


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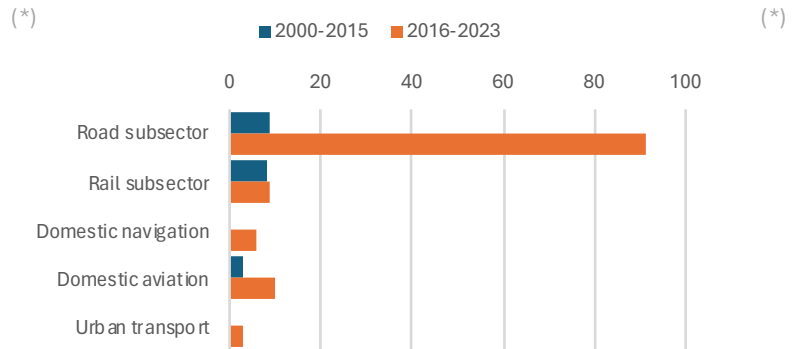


## Transport Climate Policy Overview

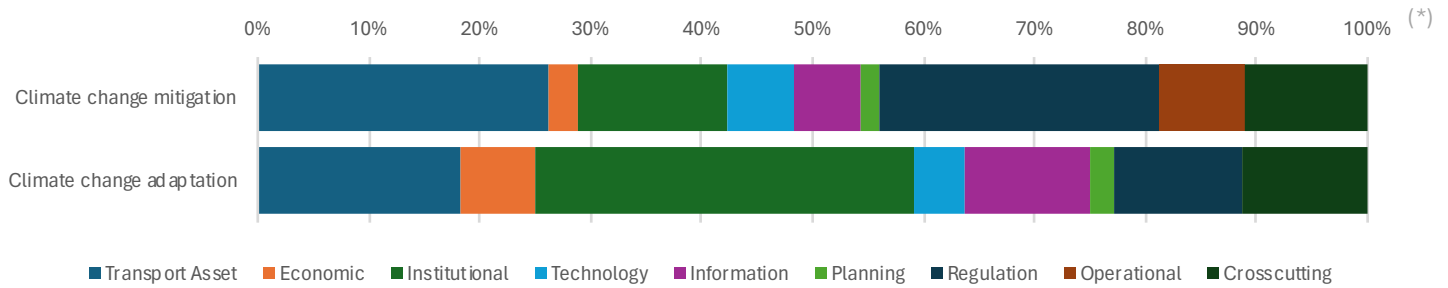
Number of measures by source



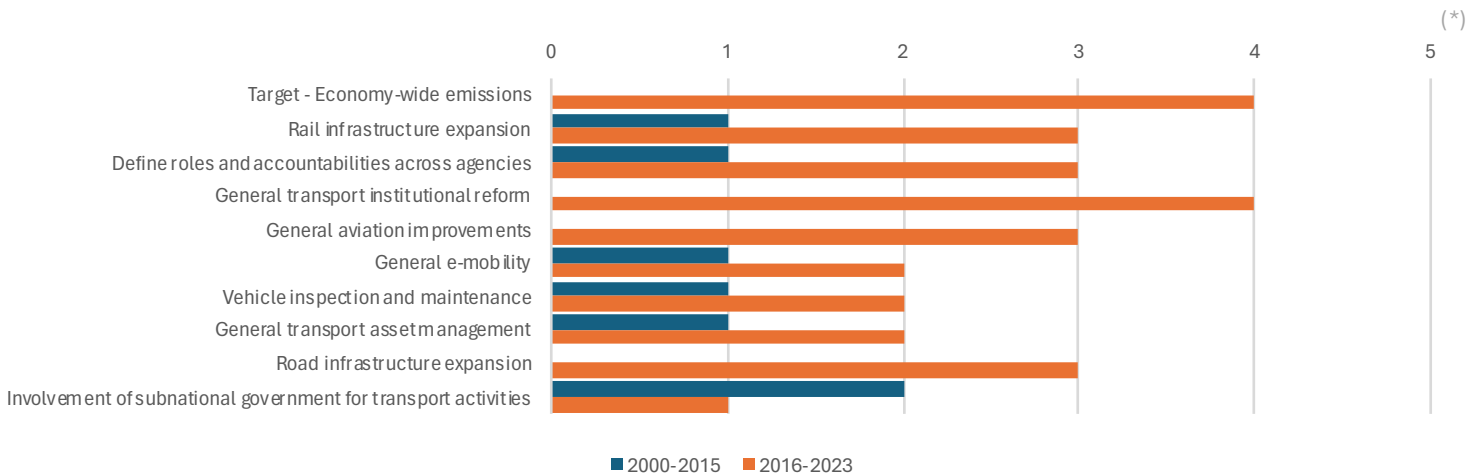
Number of climate change measures by subsectors



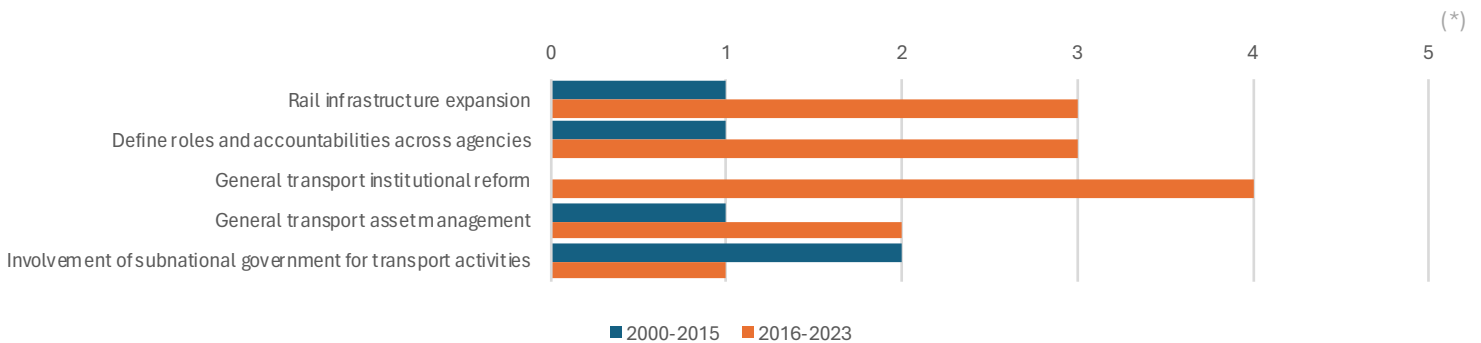
Transport-related climate change by framework



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
Global Status Report on Road Safety 2018	2018	Automated enforcement of speed limits, Design standards for sidewalks and bicycle paths, National speed law, Speed limits on urban roads <= 30 kph, Speed limit on rural roads <= 70 kph, Speed limit on motorways <= 90 kph
Updated Nationally Determined Contribution - KGZ	2021	General active mobility, General e-mobility, Bus fleet renewal, Traffic management
Voluntary National Review on the Implementation of the Sustainable Development Goals in the Kyrgyz Republic 2020	2020	General e-mobility, Bus fleet renewal, General public transport, Employment in transport, communication, and storage, Technology and knowledge transfer, Logistics hub, Road infrastructure expansion
59 UN Transport Agreements/ and Conventions Serviced by ECE	2021	Convention on Road Traffic 1949, Convention on Road Traffic 1968
RESOLUTION OF THE CABINET OF MINISTERS OF THE KYRGYZ REPUBLIC of July 1, 2021 No. 55 About the Ministry of Transport and Communications of the Kyrgyz Republic	2021	Define roles and accountabilities across agencies, Involvement of subnational government for transport activities
International Energy Charter	2015	Fuel quality
Safely Connected: A Regional Road Safety Strategy for CAREC Countries, 2017-2030	2017	General infrastructure improvements, Vehicle inspection and maintenance, Technical standards for road infrastructure, Technical standards for general transport infrastructure, General international conventions, Request for financial support to develop transport, Technology and knowledge transfer, Training of enforcement authorities, General capacity building, General transport institutional reform, Reporting, transparency, feedback mechanism, Transport law, Passenger and freight load limits
National Energy Program for 2008-2010 and Fuel and Energy Complex Development Strategy until 2025	2008	General e-mobility
National Development Strategy of the Kyrgyz Republic for 2018-2040	2018	General freight and logistics improvements, Routine transport asset maintenance, General transport asset management, Road infrastructure expansion
Development Programme of the Kyrgyz Republic for the period 2018-2022	2018	General public transport, General transport asset management, Road infrastructure expansion
ORDER OF THE GOVERNMENT OF THE KYRGYZ REPUBLIC of December 2, 2016 No. 643 About optimization of activities of the Ministry of Transport and Roads of the Kyrgyz Republic	2016	General transport institutional reform
LAW OF THE KYRGYZ REPUBLIC of July 19, 2013 No. 154 About road transport	2013	Road-side vehicle technical checks, Vehicle inspection and maintenance, Involvement of subnational government for transport activities, Transport law
DRAFT National Sustainable Energy Action Plan of the Kyrgyz Republic	2019	Vehicle labelling, LPG/ CNG/ LNG
ORDER OF THE GOVERNMENT OF THE KYRGYZ REPUBLIC of May 21, 2015 No. 311 About approval of Rules of the organization of goods transportation by the vehicle in the Kyrgyz Republic	2015	Road-side checks on overloading
LAW OF THE KYRGYZ REPUBLIC of July 8, 1998 No. 89 About transport	1998	Technical standards for general transport infrastructure
Road Safety Opportunities and Challenges: Low- and Middle-Income Country Profiles	2020	Vehicle inspection and maintenance, Vehicle import inspections, Vehicle restrictions (import, age, access, sale, taxation)

## Climate Change Mitigation Policy Measures - Rail Transport

Policy document	Year	Measures
RESOLUTION OF THE CABINET OF MINISTERS OF THE KYRGYZ REPUBLIC of July 1, 2021 No. 55 About the Ministry of Transport and Communications of the Kyrgyz Republic	2021	Define roles and accountabilities across agencies, Involvement of subnational government for transport activities
ORDER OF THE GOVERNMENT OF THE KYRGYZ REPUBLIC of September 30, 2014 No. 558 About approval of Main routes of development of rail transport of the Kyrgyz Republic for 2014-2020	2014	General data repositories and data collection, Railway electrification, General rail improvement, General transport asset management, General transport finance, Rail infrastructure expansion, Development of rail plan/ policy, Transport law
Voluntary National Review on the Implementation of the Sustainable Development Goals in the Kyrgyz Republic 2020	2020	Railway electrification, Employment in transport, communication, and storage, Logistics hub, Rail infrastructure expansion
Development Programme of the Kyrgyz Republic for the period 2018-2022	2018	General rail improvement, Rail infrastructure expansion
National Development Strategy of the Kyrgyz Republic for 2018-2040	2018	Rail infrastructure expansion



## Climate Change Mitigation Policy Measures - Domestic Navigation

Policy document	Year	Measures
ORDER OF THE GOVERNMENT OF THE KYRGYZ REPUBLIC of June 23, 2017 No. 402 About approval of the Charter of the state company "Issyk Kul Shipping Company" under the Ministry of Transport and Roads of the Kyrgyz Republic"	2017	Define roles and accountabilities across agencies, General transport institutional reform
RESOLUTION OF THE CABINET OF MINISTERS OF THE KYRGYZ REPUBLIC of July 1, 2021 No. 55 About the Ministry of Transport and Communications of the Kyrgyz Republic	2021	Define roles and accountabilities across agencies, Involvement of subnational government for transport activities
Voluntary National Review on the Implementation of the Sustainable Development Goals in the Kyrgyz Republic 2020	2020	Employment in transport, communication, and storage, Logistics hub

## Climate Change Mitigation Policy Measures - Domestic Aviation

Policy document	Year	Measures
ORDER OF THE GOVERNMENT OF THE KYRGYZ REPUBLIC of December 1, 2020 No. 585 About approval of the Charter of the state company "Kyrgyzaeronavigation" under the Ministry of Transport and Roads of the Kyrgyz Republic	2020	Define roles and accountabilities across agencies, General transport institutional reform
ORDER OF THE GOVERNMENT OF THE KYRGYZ REPUBLIC of January 15, 2010 No. 10 About the Agency of civil aviation under the Ministry of Transport and Roads of the Kyrgyz Republic	2010	Define roles and accountabilities across agencies, Involvement of subnational government for transport activities
RESOLUTION OF THE CABINET OF MINISTERS OF THE KYRGYZ REPUBLIC of July 1, 2021 No. 55 About the Ministry of Transport and Communications of the Kyrgyz Republic	2021	Define roles and accountabilities across agencies, Involvement of subnational government for transport activities
National Development Strategy of the Kyrgyz Republic for 2018-2040	2018	Development of aviation plan/policy, General aviation improvements
Voluntary National Review on the Implementation of the Sustainable Development Goals in the Kyrgyz Republic 2020	2020	General aviation improvements, Employment in transport, communication, and storage, Logistics hub
Development Programme of the Kyrgyz Republic for the period 2018-2022	2018	General aviation improvements
ORDER OF THE GOVERNMENT OF THE KYRGYZ REPUBLIC of October 19, 2007 No. 479 About some measures for development of domestic air transportation in the Kyrgyz Republic	2007	Reference to finance mechanisms within country

## Climate Change Mitigation Policy Measures - Urban Transport

Policy document	Year	Measures
Updated Nationally Determined Contribution - KGZ	2021	Bus fleet renewal
Development Programme of the Kyrgyz Republic for the period 2018-2022	2018	General transport asset management
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
ORDER OF THE GOVERNMENT OF THE KYRGYZ REPUBLIC of December 1, 2020 No. 585 About approval of the Charter of the state company "Kyrgyzaeronavigation" under the Ministry of Transport and Roads of the Kyrgyz Republic	2020	Define roles and accountabilities across agencies, General transport institutional reform (Sub-sectors: Domestic Aviation)
ORDER OF THE GOVERNMENT OF THE KYRGYZ REPUBLIC of January 15, 2010 No. 10 About the Agency of civil aviation under the Ministry of Transport and Roads of the Kyrgyz Republic	2010	Define roles and accountabilities across agencies, Involvement of subnational government for transport activities (Sub-sectors: Domestic Aviation)
ORDER OF THE GOVERNMENT OF THE KYRGYZ REPUBLIC of June 23, 2017 No. 402 About approval of the Charter of the state company "Issyk Kul Shipping Company" under the Ministry of Transport and Roads of the Kyrgyz Republic"	2017	Define roles and accountabilities across agencies, General transport institutional reform (Sub-sectors: Domestic Navigation)
RESOLUTION OF THE CABINET OF MINISTERS OF THE KYRGYZ REPUBLIC of July 1, 2021 No. 55 About the Ministry of Transport and Communications of the Kyrgyz Republic	2021	Define roles and accountabilities across agencies, Involvement of subnational government for transport activities (Sub-sectors: Road transport, Rail transport, Domestic Navigation, Domestic Aviation)
ORDER OF THE GOVERNMENT OF THE KYRGYZ REPUBLIC of September 30, 2014 No. 558 About approval of Main routes of development of rail transport of the Kyrgyz Republic for 2014-2020	2014	General data repositories and data collection, General transport asset management, General transport finance, Rail infrastructure expansion, Development of rail plan/ policy, Transport law (Sub-sectors: Rail transport)
Voluntary National Review on the Implementation of the Sustainable Development Goals in the Kyrgyz Republic 2020	2020	Employment in transport, communication, and storage, Technology and knowledge transfer, Rail infrastructure expansion (Sub-sectors: Road transport, Rail transport, Domestic Navigation, Domestic Aviation)
Safely Connected: A Regional Road Safety Strategy for CAREC Countries, 2017–2030	2017	General international conventions, Request for financial support to develop transport, Technology and knowledge transfer, General capacity building, General transport institutional reform, Reporting, transparency, feedback mechanism, Transport law (Sub-sectors: Road transport)
Development Programme of the Kyrgyz Republic for the period 2018-2022	2018	General transport asset management, Rail infrastructure expansion (Sub-sectors: Road transport, Rail transport, Urban transport)
National Development Strategy of the Kyrgyz Republic for 2018-2040	2018	Routine transport asset maintenance, General transport asset management, Rail infrastructure expansion (Sub-sectors: Road transport, Rail transport)
ORDER OF THE GOVERNMENT OF THE KYRGYZ REPUBLIC of December 2, 2016 No. 643 About optimization of activities of the Ministry of Transport and Roads of the Kyrgyz Republic	2016	General transport institutional reform (Sub-sectors: Road transport)
LAW OF THE KYRGYZ REPUBLIC of July 19, 2013 No. 154 About road transport	2013	Involvement of subnational government for transport activities, Transport law (Sub-sectors: Road transport)
ORDER OF THE GOVERNMENT OF THE KYRGYZ REPUBLIC of October 19, 2007 No. 479 About some measures for development of domestic air transportation in the Kyrgyz Republic	2007	Reference to finance mechanisms within country (Sub-sectors: Domestic Aviation)

## Notes



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

<https://bit.ly/ATOpolicyrepository>

## References

- (1) UN Population Database (2022), <https://population.un.org/wpp/>
- (2) World Bank (2022), <https://data.worldbank.org/>
- (3) Global Materials Flow Database (UNEP, 2023), <https://www.resourcepanel.org/global-material-flows-database>
- (4) Emissions Database for Global Atmospheric Research (EC, 2023), <https://edgar.jrc.ec.europa.eu/>
- (5) UN Energy Statistics (2021), <https://unstats.un.org/unsd/energystats/dataPortal/>
- (6) Fossil Fuels Consumption Subsidies 2022 (IEA, 2022), <https://www.iea.org/reports/fossil-fuels-consumption-subsidies-2022>
- (7) Climate Change Dashboard (IMF, 2024), <https://climatedata.imf.org/pages/access-data>
- (8) Ember (2023), <https://ember-climate.org/data-catalogue/yearly-electricity-data/>
- (9) Country Official Statistics
- (10) International Organization of Motor Vehicle Manufacturers (OICA, 2023), <https://www.oica.net/production-statistics/>
- (11) Trademap (ITC, 2024), <https://www.trademap.org/>
- (12) Koks, et al. (2019), <https://www.nature.com/articles/s41467-019-10442-3>
- (13) Coalition for Disaster Resilient Infrastructure (CDRI, 2023), <https://giri.unepgrid.ch/facts-figures/building-infrastructures>
- (14) Koks, et al. (2023), <https://iopscience.iop.org/article/10.1088/2634-4505/acd1aa>
- (15) Environmental Vulnerability Indicators (UN, 2018), <https://www.un.org/development/desa/dpad/least-developed-country-category/evi-indicators-ldc.html>
- (16) Rapid Transit Database (ITDP, 2022), <https://www.itdp.org/rapid-transit-database/>
- (17) PPI Database (World Bank, 2023), <https://ppi.worldbank.org/en/ppi>
- (18) Organisation for Economic Co-operation and Development (OECD) (2022), <https://stats.oecd.org/Index.aspx?DataSetCode=CRS1#>

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The ATO is an initiative developed under TA-6763 REG: Accelerating Innovation in Transport - Asian Transport Outlook: Phase 3 (55119-001) of the Asian Development Bank (ADB) and is also being supported by the Asian Infrastructure Investment Bank (AIIB) through Purchase Order No. CW39446 AIIB Support: Asian Transport Outlook Phase 3.

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