

Vanuatu

Transport Climate Profile

Population (2024)
342.3 thousand

Urban population
26%

Below 18 y.o.
47%

Population density
27 persons per sqkm

Rural population
74%

Above 60 y.o.
6%

Subregion
(1) **Pacific**

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

(1) Domestic consumption per capita, tonnes (2024)
5.9 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.*

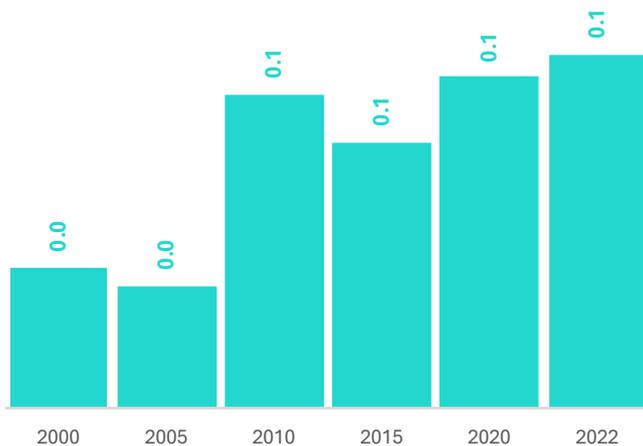
Income class
Low and lower middle income

GDP per capita (PPP, 2022)
3,291 USD (1,2)
(2)

(3)

Transport and Climate Change

Transport fossil CO2 emissions, million tonnes



(4)

In 2010, transport contributed 52.3% of total fossil CO2 emissions. By 2022, transport contributed 42.7%.

Share of transport CO2 emissions by mode (2022)

| Road **86.1%** (4)

| Navigation **7.9%** (4)

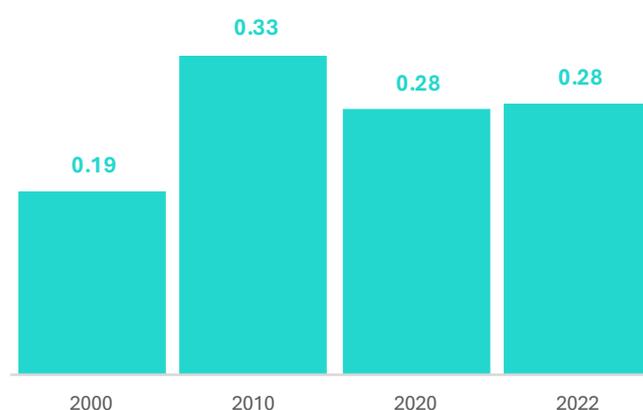
Navigation and aviation only includes domestic transportation

Between 2000-2015, road transport contributed 75.3% in transport fossil CO2 emissions. Between 2016-2022, road transport contributed 84.6%.

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

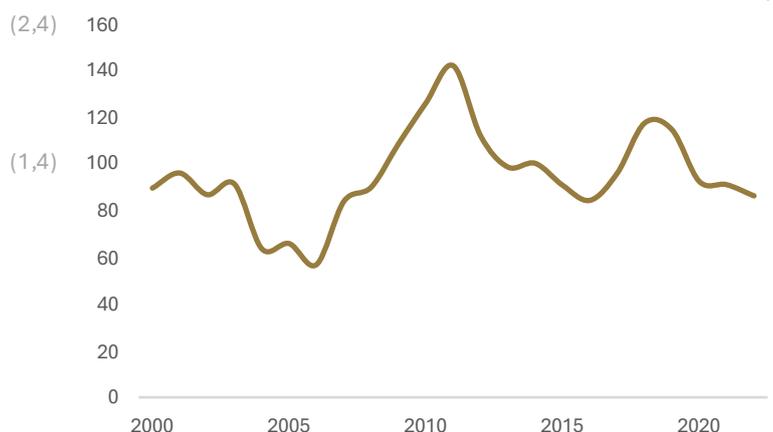
Asia-Pacific average is 33.2 gCO2 per USD

Transport fossil CO2 emissions per capita, tonnes

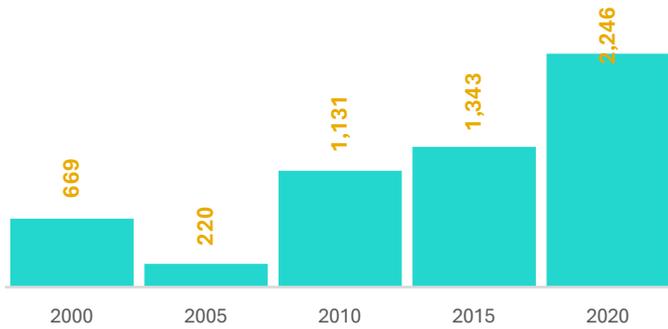


Transport CO2 emissions intensity with GDP trend, gCO2 per USD

(2,4) (2,4)



Transport energy consumption, terajoules

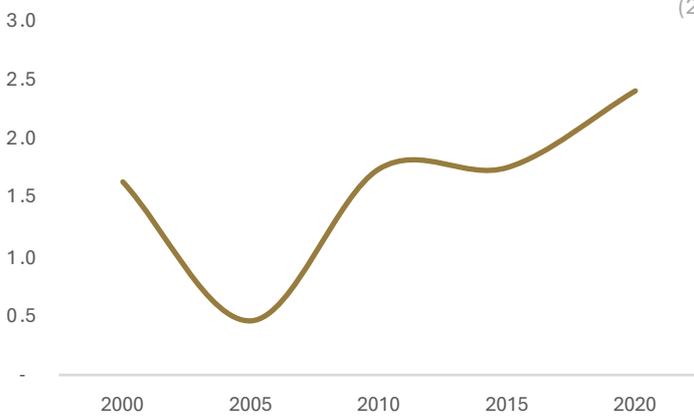


Transport energy intensity with GDP, 2020

2.4 MJ per USD

Asia-Pacific average is 0.5 MJ per USD

Transport energy intensity with GDP trend, MJ per USD



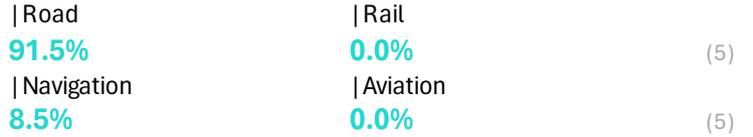
Transport fossil fuel subsidies, cumulative from 2010 to 2022

None

0.0% of Asia-Pacific total

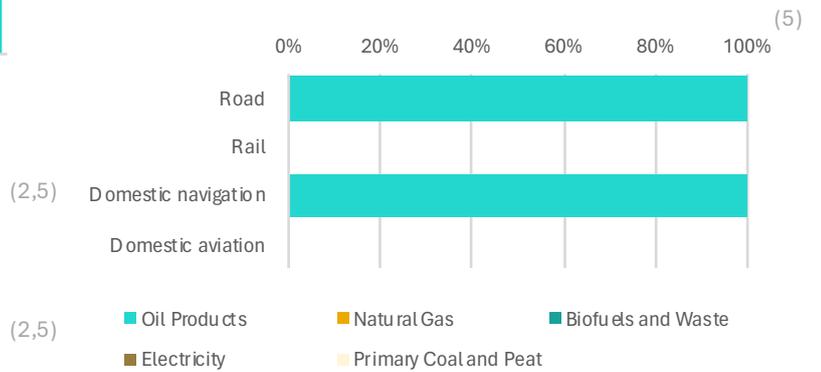
Implicit fossil fuel subsidies due to externalities

Share of transport energy consumption by mode (2020)



Navigation and aviation only includes domestic transportation

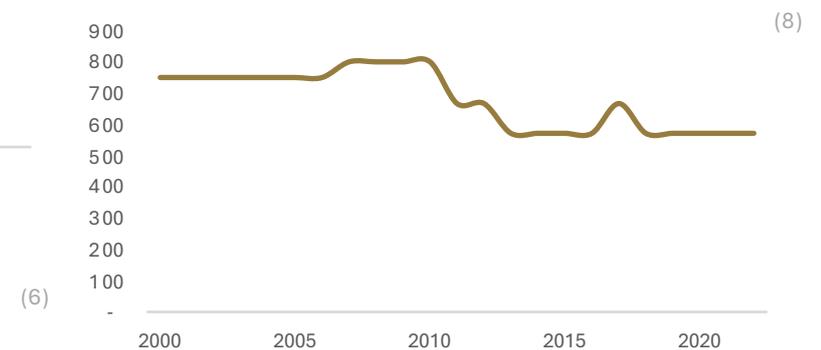
Share of transport energy consumption by source (2020)



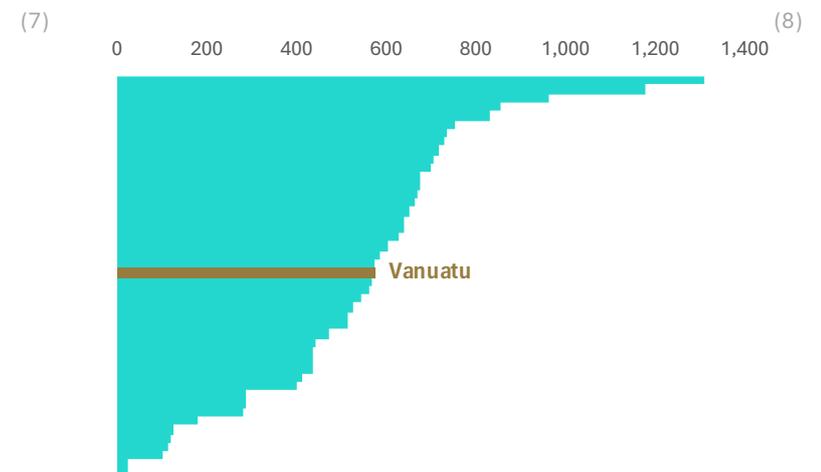
Grid emission factor (2022)

571.4 gCO₂ per kWh

Grid emission factor trend, gCO₂ per kWh



Grid emission factors in Asia-Pacific, gCO₂ 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 **485 thousand USD** | Hybrid-electric **384 thousand USD** (11)

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

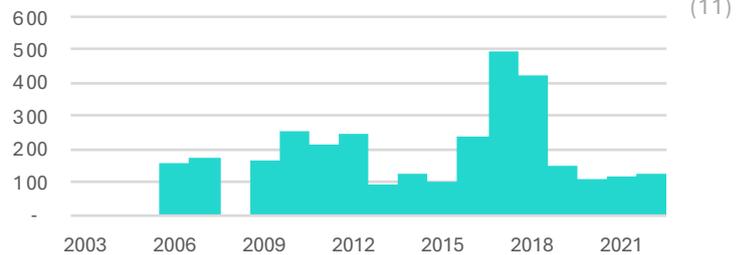
Share of vehicles by type

Bus vehicle production, units

Bus import value (2017-2022)

11.9 million USD (11)

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



Adaptation

Average annual losses to transport infrastructure due to hazards (2023)

1.59 million USD

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

Road	Rail
89%	0%
Ports	Airports
8%	3%

National road vulnerability index ranking (2023)

n.d.

Share of population in low elevated coastal zones (2018)

1%

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)

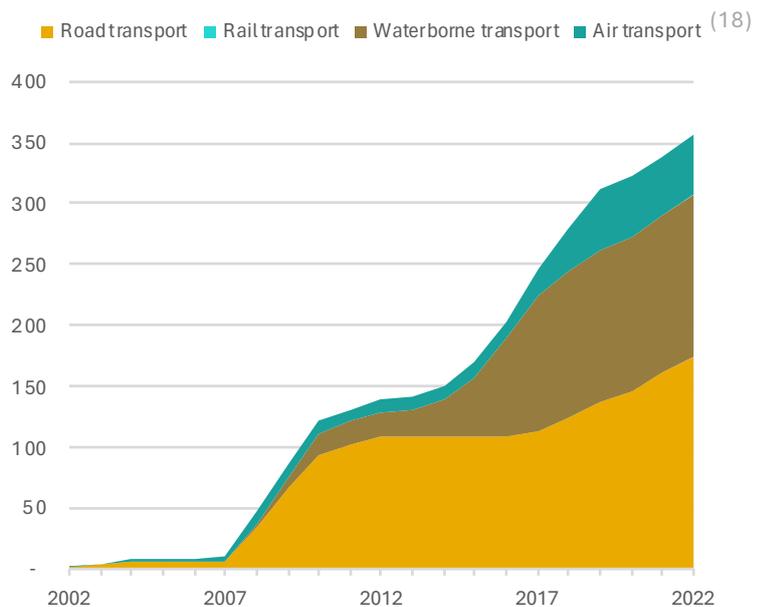
Urban rapid transit ratio (2021) **NA** (1,16)

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

Transport Investment

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

Official development assistance in the transport sector, million USD



Developed with the support of:

Transport Climate Policy Documents

Transport-related policy documents in Vanuatu



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
Vanuatu Updated NDC (adopted in 2022)	Mitigation measures					
	Mitigation targets	Yes		Yes	Yes	
	Adaptation measures					
	Adaptation targets					

Long-term Strategies

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

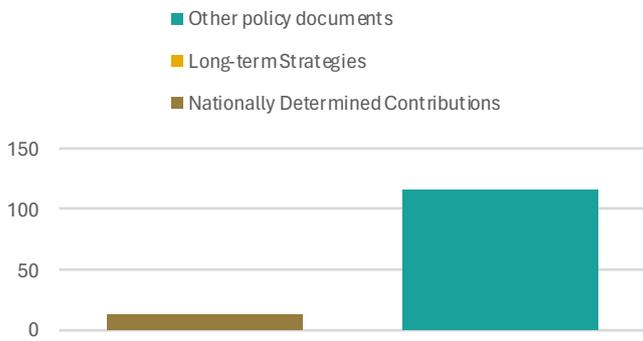


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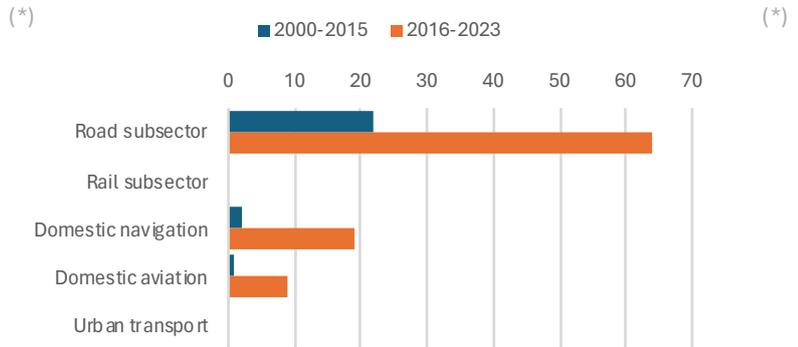


Transport Climate Policy Overview

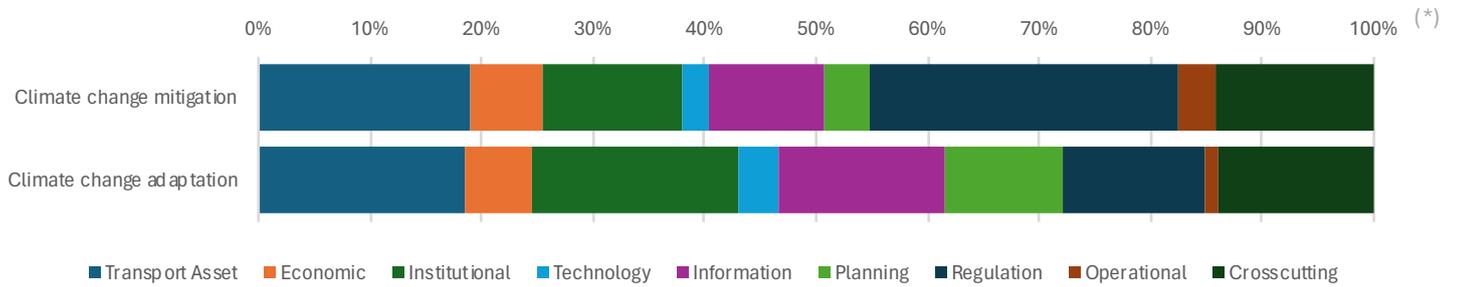
Number of measures by source



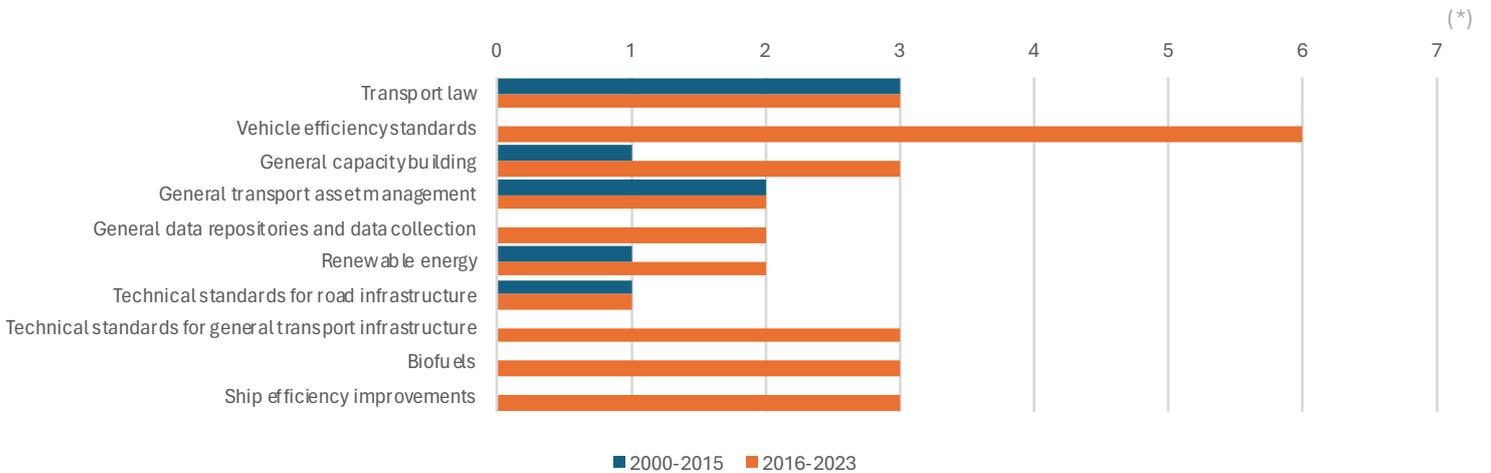
Number of climate change measures by subsectors



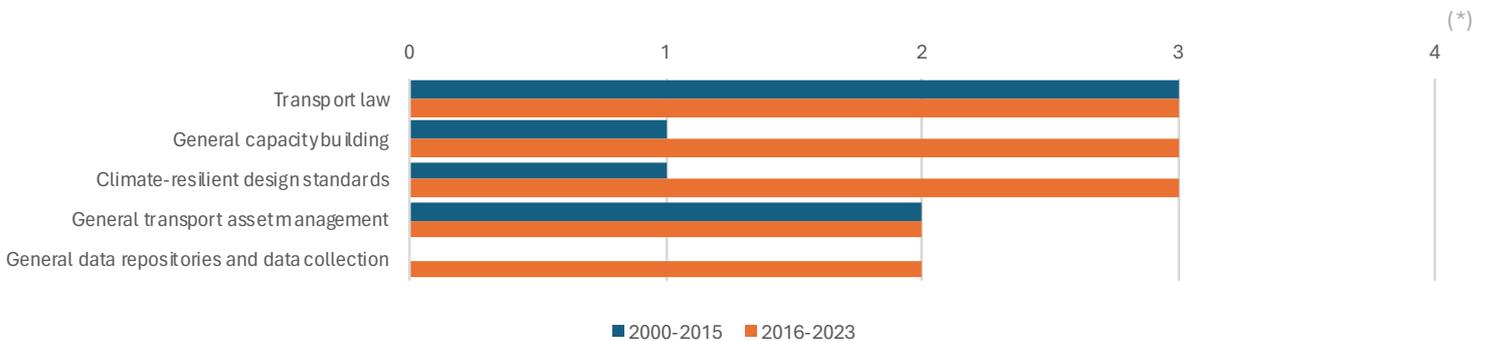
Transport-related climate change by framework



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
Laws of the Republic of Vanuatu Road Traffic (Control)	1962	Vehicle inspection and maintenance, Access restriction by corridor/ road, Transport law, Passenger and freight load limits, Road-side checks on overloading
Updated Vanuatu National Energy Road Map 2016-2030	2016	Renewable energy, Vehicle labelling, Biofuels, Energy efficient vehicle purchase incentives, Vehicle taxes, Development of national energy plan/ policy, Vehicle efficiency standards
Vanuatu NDC Implementation Roadmap	2020	General e-mobility, Biofuels, Vehicle efficiency standards
Vanuatu Updated NDC	2022	General e-mobility, Biofuels, Vehicle efficiency standards
Public Roads Act No. 35 of 2013	2013	Technical standards for road infrastructure, Define roles and accountabilities across agencies, Transport law
Global Status Report on Road Safety 2018	2018	Vehicle inspection and maintenance, Design standards for sidewalks and bicycle paths, Vehicle import inspections
Vanuatu Climate Change and Disaster Risk Reduction Policy 2016-2030	2016	Renewable energy, Fuel quality, Technology and knowledge transfer, Vehicle efficiency standards
Rural Roads Access Framework	2013	Surface treatment resurfacing, General transport asset management, General capacity building, Road infrastructure expansion
Vanuatu Roads for Development Program	2017	General data repositories and data collection, Technical standards for road infrastructure, Performance-based transport maintenance contracts, Routine transport asset maintenance, Technologies on transport asset management, General transport asset management, General transport finance, General capacity building, General transport institutional reform
Vanuatu Transport Sector Support Program (VTSSP)	n.d.	General data repositories and data collection, Technical standards for road infrastructure
Voluntary National Review on the Implementation of the 2030 Agenda for Sustainable Development	2019	General infrastructure improvements
Vanuatu 2030	2016	General transport asset management
Vanuatu Infrastructure Investment Plan	2015	Transport asset management funding strategy, General transport asset management, Road infrastructure expansion
MIPU 2020 Corporate Plan	2020	Reference to finance mechanisms within country

Climate Change Mitigation Targets - Road Transport

Policy document	Target year	Targets
Vanuatu NDC Implementation Roadmap	2030	20 percent biodiesel (biofuel) blending in diesel
Vanuatu Updated NDC	2030	By 2030, 20 % bio-diesel (bio-fuel) blending in diesel.
Vanuatu NDC Implementation Roadmap	2030	Electric vehicles (e-buses) for public transportation (10 percent of total public buses) Electric cars (e-Cars) in Vanuatu (10 percent of government fleet) 1,000 electric two-wheelers (e-bikes)/three-wheelers (e-rickshaws)
Vanuatu Updated NDC	2030	Electric Vehicles (e-mobility): by 2030, (a) Introduce e-buses for public transportation (10% of total public buses); (b) Introduce e-cars in Vanuatu (10% of government fleet); and (c) 1000 electric two wheelers (e-bikes)/three wheelers (e-rickshaw).
Updated Vanuatu National Energy Road Map 2016-2030	2030	Explore the potential for powering sea-going vessels and land-based vehicles with renewable energy
Updated Vanuatu National Energy Road Map 2016-2030	2030	Improve transport (land and marine) energy efficiency: % saving on BAU projection = 10 (2030)
Vanuatu NDC Implementation Roadmap	2030	Improve transport (land and marine) energy efficiency - % savings on BAU projection= 10% (2030)
Vanuatu Updated NDC	2030	By 2030, 10% improvement in transport (land and marine) energy efficiency.
Vanuatu Updated NDC	2030	By 2030, Mileage and Emission Standards for Vehicles.

Climate Change Mitigation Policy Measures - Domestic Navigation

Policy document	Year	Measures
Updated Vanuatu National Energy Road Map 2016-2030	2016	Renewable energy, Biofuels, Development of national energy plan/ policy
Vanuatu NDC Implementation Roadmap	2020	Biofuels, Ship efficiency improvements
Vanuatu Updated NDC	2022	Biofuels, Ship efficiency improvements
Vanuatu Climate Change and Disaster Risk Reduction Policy 2016-2030	2016	Renewable energy, Fuel quality, Ship efficiency improvements
Vanuatu's National Ocean Policy	2016	General inland waterways (IWT) improvement, Technical standards for general transport infrastructure, Vessel scrappage and retrofit schemes, General shipping improvement, General capacity building, General transport institutional reform
Voluntary National Review on the Implementation of the 2030 Agenda for Sustainable Development	2019	General infrastructure improvements
Vanuatu 2030	2016	General transport asset management
MIPU 2020 Corporate Plan	2020	Reference to finance mechanisms within country
MARITIME ACT	2011	Transport law

Climate Change Mitigation Targets - Domestic Navigation

Policy document	Target year	Targets
Vanuatu NDC Implementation Roadmap	2030	20 percent biodiesel (biofuel) blending in diesel
Vanuatu Updated NDC	2030	By 2030, 20 % bio-diesel (bio-fuel) blending in diesel.
Updated Vanuatu National Energy Road Map 2016-2030	2030	Explore the potential for powering sea-going vessels and land-based vehicles with renewable energy
Vanuatu NDC Implementation Roadmap	2030	Improve transport (land and marine) energy efficiency - % savings on BAU projection= 10% (2030)
Vanuatu Updated NDC	2030	By 2030, 10% improvement in transport (land and marine) energy efficiency.

Climate Change Mitigation Policy Measures - Domestic Aviation

Policy document	Year	Measures
Vanuatu NDC Implementation Roadmap	2020	Biofuels
Vanuatu Updated NDC	2022	Biofuels
Updated Vanuatu National Energy Road Map	2016	Development of national energy plan/ policy
Vanuatu Climate Change and Disaster Risk	2016	Fuel quality
Vanuatu Tourism Market Development Plan	2019	General aviation improvements
Voluntary National Review on the	2019	General infrastructure improvements
Vanuatu 2030	2016	General transport asset management
MIPU 2020 Corporate Plan	2020	Reference to finance mechanisms within country
Civil Aviation Act	2021	Transport law

Climate Change Mitigation Targets - Domestic Aviation

Policy document	Target year	Targets
Vanuatu NDC Implementation Roadmap	2030	20 percent biodiesel (biofuel) blending in diesel
Vanuatu Updated NDC	2030	By 2030, 20 % bio-diesel (bio-fuel) blending in diesel.

Climate Change Adaptation Policy Measures

Policy document	Year	Measures
Rural Roads Access Framework	2013	Climate-resilient design standards, Surface treatment resurfacing, Transport infrastructure resilience, General transport asset management, General capacity building (Sub-sectors: Road transport)
Vanuatu 2030	2016	Climate-resilient design standards, General international conventions, Transport infrastructure resilience, General transport asset management, Stakeholder Involvement (Sub-sectors: Road transport, Domestic Navigation, Domestic Aviation)
Vanuatu Climate Change and Disaster Risk Reduction Policy 2016-2030	2016	Disaster notification/ early warning system, Climate-resilient design standards, Technology and knowledge transfer, Disaster monitoring and risk assessment for transport infrastructure (Sub-sectors: Road transport)
Vanuatu Roads for Development Program	2017	General data repositories and data collection, Climate-resilient design standards, Performance-based transport maintenance contracts, Routine transport asset maintenance, Technologies on transport asset management, General transport asset management, General transport finance, Reference to finance mechanisms within country, Technology and knowledge transfer, General capacity building, General transport institutional reform, Involvement of subnational government for transport activities, Stakeholder Involvement, Development of transport adaptation/ emergency/ disaster plan/ policy (Sub-sectors: Road transport)
Public Roads Act No. 35 of 2013	2013	Define roles and accountabilities across agencies, Transport law (Sub-sectors: Road transport)
National Policy on Climate Change and Disaster-Induced Displacement	2018	Relocation from climate-risk areas, Development of transport adaptation/ emergency/ disaster plan/ policy (Sub-sectors: NA)
Vanuatu Updated NDC	2022	Disaster notification/ early warning system (Sub-sectors: NA)
Updated Vanuatu National Energy Road Map 2016-2030	2016	General data repositories and data collection, General capacity building (Sub-sectors: NA)
Vanuatu Transport Sector Support Program (VTSSP)	n.d.	General data repositories and data collection, General capacity building, General transport institutional reform, Reporting, transparency, feedback mechanism (Sub-sectors: Road transport)
Vanuatu's National Ocean Policy	2016	General capacity building, General transport institutional reform, Transport law (Sub-sectors: Domestic Navigation)
Vanuatu Infrastructure Investment Plan	2015	Transport asset management funding strategy, General transport asset management (Sub-sectors: Road transport)
MIPU 2020 Corporate Plan	2020	Reference to finance mechanisms within country, Stakeholder Involvement, Transport law (Sub-sectors: Road transport, Domestic Navigation, Domestic Aviation)
Civil Aviation Act	2021	Transport law (Sub-sectors: Domestic Aviation)
Laws of the Republic of Vanuatu Road Traffic (Control)	1962	Transport law (Sub-sectors: Road transport)
MARITIME ACT	2011	Transport law (Sub-sectors: Domestic Navigation)

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/>
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- (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/>
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- (18) Organisation for Economic Co-operation and Development (OECD) (2022), <https://stats.oecd.org/Index.aspx?DataSetCode=CRS1#>

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