

## ASIA AND PACIFIC VEHICLE STANDARDS & FLEETS

COUNTRY	IMPORT*	FLEET (motor vehicles/1000 people)	STANDARDS & I/M	COMMENT
Afghanistan		14 vehicles per 1000 people (2003), up from 11 in 1990	Vehicle inspection with car registration, and annual inspections after that	Report on second hand car market: <a href="http://www.areu.org.af/publications/Market%20in%20Secondhand%20Cars.pdf">www.areu.org.af/publications/Market%20in%20Secondhand%20Cars.pdf</a> ; most cars imported via Pakistan, Japan or Dubai; UNEP did air quality testing in Kabul in 2002
Bangladesh	Imported used vehicles must be less than three years old.	1 vehicle per 1000 people (1990-2003)	Roadworthiness certificate required, through Bangladesh Road Transport Authority; World Bank and DOE established emissions testing. The country adopted Bangladesh 1 and 2 emission standards in line with the Euro emission norms (Euro 1 and 2) in March 2006	Second hand cars imported from Japan; Environment Canada did capacity-building in Bangladesh to reduce emissions from auto rickshaws;
Bhutan	Importation of used vehicles is banned.	Was 13,600 in 1997, then 26,700 in 2004; growth rate of 15% per annum. This equates to 0.01 vehicles per 1000 people	Roadworthiness certificate required; emissions testing started in early 2003; both under Road Safety and Transport Authority. Euro 2 Vehicle emission standards came into force in March 2008. Import licenses only given for vehicles that meet the Euro 2 standards or above	
Brunei Darussalam	Imported used vehicles must be less than five years old; all imported cars must have a catalytic converter	607 vehicles per 1000 people (1999)	Regular roadworthiness inspection required for vehicles over seven years old	Land Transport website: <a href="http://www.land-transport.gov.bn/">http://www.land-transport.gov.bn/</a> ; petrol follows Euro2 standards, diesel follows Euro1 - plan to go to Euro4 (as of mid-2005)
Cambodia		6 vehicles per 1000 people (1999-2001) 30 vehicles per 1000 (2003)	Formal emission standards for petrol and diesel vehicles exist. Emission standards for 2 and 4 stroke motorcycles and vehicles are provided for under Cambodian law	There was an ADB loan in 2002 for a road safety programme, including vehicle testing, but no more information found
China	Importation of	12 vehicles per	Rigorous inspection	In Hong Kong, diesel

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	used vehicles is banned.	1000 people (1999-2001), up from 5 in 1990, 15 vehicles per 1000 people (2003); 77 vehicles per 1000 people in Hong Kong; all cars require catalytic converter	before registration, including emissions; Hong Kong: annual roadworthiness inspection, including emissions test; Euro2 standards in effect; Euro4 to be implemented by 2010	vehicles are about 30% of fleet
China, Macao Sar				
China, Taiwan			Gasoline vehicles: Phase 4 emission standards went into effect January 2008. Diesel engine vehicles: Phase 4 standards went into effect October 2006. Motorcycle standards: Phase 5 standards went into effect July 2007. Inspection and maintenance programmes and clean vehicle technologies have been adopted. Plan to implement Euro 5 diesel emission standards January 2012	
Cook Islands		Between 2000-2005, new vehicle registration was 1256, 1698, 1254, 1641, and 1588, respectively (Cook Islands Office of Statistics)		Pacific Forum called for vehicle and emissions testing by 2004/2005, but no more information found
Democratic People's Republic of Korea		Private car ownership was forbidden until recently, so auto market just opening; total fleet estimated at about 270,000 - 20,000-25,000 passenger cars		Report on DPR Korea's air quality: <a href="http://www.rrcap.unep.org/reports/soe/dprk_air.pdf">www.rrcap.unep.org/reports/soe/dprk_air.pdf</a> ; DPR Korea has four automotive plants producing vehicles
Fiji	Imported cars require "warrant of fitness"	39 vehicles per 1000 people (1996 - WRI)		

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India	Imported used vehicles must be less than three years old.	200 vehicles per 1000 people (Pew Center) in urban areas. Nation wide: 4 vehicles per 1000 people in 1990 and 9 vehicles per thousand people in 2003	Pollution Under Control (PUC) inspection programme has been operating since 1980s; all vehicles tested twice a year, in Delhi tested four times a year. Euro2 introduced in 2005. The adopted emission standards (Bharat standards) correspond to Euro emission standards. The Indian government in 2008 issued a notification to introduce Euro 3 emission standards (Fuel sulphur level at 350ppm) by April 1, 2010 nationally; Euro IV standards and 50ppm sulphur fuel in eleven cities by April 1, 2010	US EPA report deems India's I/M programme a failure
Indonesia	Conflicting information: US government document says used vehicles now banned, but newspaper article says used vehicles to be banned from 2007; for used commercial vehicles, there is currently a 10-year age maximum on imports	Euro II standards to apply from 2006. 16 vehicles per 1000 people in 1990	Emissions testing facilities available in a number of cities (Surabaya, Yogyakarta, etc.); Jakarta has roadworthiness and emissions tests for commercial vehicles, but system is corrupt and ineffective. Adopted the Euro 2 emission standards in 2007, but sulphur levels are above 4000ppm and standard not met. Plan to adopt Euro 3 standard in 2016	<a href="http://english.people.com.cn/200601/05/eng20060105_233068.html">http://english.people.com.cn/200601/05/eng20060105_233068.html</a>
Kiribati	No policy on imports	In 1995, only about 2000 vehicles in Kiribati; only about 500 km road suitable for vehicles	Vehicle inspection undertaken by Police Patrol unit on any cars to be registered	
Lao People's Democratic Republic		9 Vehicles per 1000 people in 1990; 10 vehicles per 1000 people (2003 - WHO)	Proportion of diesel to petrol vehicles - 70:30.	Air quality testing in 2003 indicated that PM10 levels are high, but sulphur and NO2 levels are low. Understand no standards

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				currently developing a Environmental sustainable Transport strategy.
Malaysia	Vehicle imports make up less than 5% of market	139 vehicles per 1000 people (1996 - WRI); 254 Vehicles per 1000 people (2003)	Proportion of diesel to petrol vehicles - 10:90; half of vehicles are motorcycles; in-use vehicles subject to periodic and roadside inspections, including emissions - outsourced to private company; older commercial vehicles inspected every 6 months. Euro 2 vehicle emission standard since 2009	There are 23 vehicle assembly plants in Malaysia, which make up 90% of market
Maldives		4 vehicles per 1000 people (1996 - WRI), or a total of less than 3000 vehicles		
Marshall Islands		3 vehicles per 1000 people (2003 - UNESCAP)		
Micronesia, Fed. States of			In 1999, only 240 km of roads	
Mongolia		18 vehicles per 1000 people (2000 - WRI); 43 vehicles per 1000 people in 2003	Militia do some of the vehicle inspections	Most cars from Russia; there are 4 air quality monitoring stations in Ulaanbataar (UNEP)
Myanmar	Imported used vehicles must be less than 10 years old; vehicles must pass six tests regarding parts, vehicle body, tested engine, overhaul of brakes, new battery and tires, and all done by authorised agency	less than 1 vehicle per 1000 people (1996 - WRI)	smoke checks are done when vehicles are up for registration renewal (WHO)	<a href="http://foia.state.gov/MMS/postprpt/pr_view_all.asp?CntryID=25">http://foia.state.gov/MMS/postprpt/pr_view_all.asp?CntryID=25</a>

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Nauru			In 1999, only 40 km of roads, and less than 1000 cars	
Nepal	Imported used vehicles must comply with 1999 Nepal Vehicle Mass Emission Standards	10 vehicles per 1000 people (1999)	Emissions testing programme active in Kathmandu Valley since 1993; regular vehicle emissions testing programme est'd in 1996 (certificate required). Euro 1 vehicle standards introduced in 1999. Second Hand vehicle imports banned from 2005/6?	Most cars from India or Japan; Nepal has an electric vehicle programme (see <a href="http://www.hlf.org.np">www.hlf.org.np</a> )
Niue		2001 census indicates less than 1200 vehicles on island		
Pakistan	Imported used vehicles must be less than two years old	5 vehicles per 1000 people (1999 - WRI); 8 Vehicles per 1000 people in 2003	Indication of emissions testing programme through UNDP/GEF; 2005 news report says vehicle testing programme to be privatised	In 2003, Pakistan had world's 3rd highest CNG vehicle population (400,000 vehicles running on CNG)
Palau		5 vehicles per 1000 people (2003 - UNESCAP)	Vehicle inspection undertaken by Ministry of Justice Bureau of Public Safety	Most cars from Japan (via Guam)
Papua New Guinea		24 vehicles per 1000 people (2000 - UNESCAP)		Most cars from Japan or Australia
Philippines	Importation of used vehicles dependent upon compliance with emissions requirements as set out under Clean Air Act	10 vehicles per 1000 people in 1990; 32 vehicles per 1000 people (2000 - WRI); 34 Vehicles per 1000 people in 2003	There is a motor vehicle inspection system for vehicles prior to registration; Department of Trade and Industry oversees emissions testing programme, necessary to have certificate for renewal of annual registration from Land Transportation Office. Current - Euro 2. Euro 4 standard for 2016	Motorcycles make up 70% of vehicle sales
Republic of Korea	Anti-import bias for Korean cars	30 vehicles per 1000 people in	Indication of a vehicle inspection system	Starting in 2006, petrol vehicles have ULEV

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	means minimal importation	1990; 171 vehicles per 1000 people (2000 - WRI); 304 vehicles per 1000 people in 2003		standards, and diesel vehicles must reach Euro4 standards; introduction of natural gas vehicles to replace diesel buses
Samoa (Western)		30 vehicles per 1000 people (1993); only about 800 km of roads (UN)	Indication of a vehicle inspection system, including emissions testing	
Singapore	Imported used vehicles must be less than three years old.	130 vehicles per 1000 people in 1990; 155 vehicles per 1000 people (1999):	For cars less than three years, no inspection necessary; cars 3-10 years old, bi-annually; cars 10+ years, annually; Inspections include emissions, to follow EU Directive 96/69/EC (Euro 2); plans to upgrade to Euro 4 emissions by 2014 for new cars	Vehicle registrations subject to auction process in order to limit number of vehicles on road (see <a href="http://www.lta.gov.sg">www.lta.gov.sg</a> ) <a href="http://www.eco-business.com/news/tougher-car-emission-rules-singapore-pipeline/">http://www.eco-business.com/news/tougher-car-emission-rules-singapore-pipeline/</a>
Solomon Islands				Some vehicles imported from Japan
Sri Lanka	Imported used passenger vehicles must be less than three years old, commercial vehicles less than five years old	21 vehicles per 1000 people in 1990; 34 vehicles per 1000 people in 2003	Vehicle emissions testing programme started in August 2005; inspection programme in place - at registration, yearly for commercial vehicles, and roadside checks	
Thailand	Importation of used vehicles is banned; new imported vehicles must have a catalytic converter	46 vehicles per 1000 people in 1990; 110 vehicles per 1000 people (2000)	DIESEL is emissions testing programme for diesel vehicles; maximum sulphur levels for petrol 500 ppm, diesel 350 ppm (going to 50 ppm in 2010). Euro 3 vehicle standards; Euro 4 in 2012	Pollution Control Dept has 71 air quality monitoring stations across Thailand
Timor Leste	importation of used vehicles manufactured before 1993 is	25 vehicles per 1000 people (2002 - UN)	No testing or safety inspections	<a href="http://www.mopf.gov.tp/.../SIP%202005/SIP%20REPORTS/English%20version/TRANSPORT_Eng.pdf">www.mopf.gov.tp/.../SIP%202005/SIP%20REPORTS/English%20version/TRANSPORT_Eng.pdf</a>

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	prohibited			
Tokelau		Most transport by sea, very few vehicles		
Tonga		5 vehicles per 1000 people (2000 - UNESCAP)	Annual and quarterly fitness tests required for all vehicles	
Tuvalu		Total road network is 8km; less than 400 vehicles		
Vanuatu	No policy on imports	36 vehicles per 1000 people (1998)	There is a Vehicle Efficiencies Act, but it is poorly enforced	
Vietnam	Importation of used passenger vehicles is banned.	530,000 vehicles registered (CAI-Asia); 45 two-wheelers per 1000 people in 1990	There are 71 roadworthy registration centres in Vietnam, programme to be extended. Vehicle emission standards for new vehicles: Euro 2 from 2005; Euro 4 by January 2017; Euro 5 by 2022; Euro 3 for motorcycles by 2017. No standards for in-use vehicles. Scrappage policy for 25yr old cars.	<a href="http://vietnamnews.vnagency.com.vn/showarticle.php?num=01COM060106">http://vietnamnews.vnagency.com.vn/showarticle.php?num=01COM060106</a>
<b>Total: 41 countries</b>				

\*Referring to vehicle age, emissions standards, and technology requirements.