

# Statistics on characteristics of road vehicles

## Year 2023 \*

**Tiranë, 22 July 2024:** Publication of "Characteristics of road vehicles", refers to the number of road vehicles circulating in the Republic of Albania registered with the status "active" or "temporarily deregistered" in the Albanian National Register of road vehicles.

In the year 2023, the total number of road vehicles with "Active" status and "Temporarily deregistered" status is 867,765 vehicles, from 796,438 vehicles registered till 2022, increasing by 9.0 %.

### Road vehicles by type

Road vehicles according to the type that occupy the largest percentage of the total number of road vehicles are "Passenger cars" (80.6 %), "Mixed transport vehicles" (6.2 %) and "Motor vehicles" (5.5 %), (Tab.1).

Tab. 1: Road vehicles by type, 2022-2023

Type	2022	2023	2023/2022 %
<b>Total</b>	<b>796,438</b>	<b>867,765</b>	9.0
Passenger cars	639,379	699,337	9.4
Mixed transport vehicles	51,674	53,915	4.3
Motor vehicles	42,732	48,027	12.4
Truck	14,957	15,651	4.6
Buses	8,211	8,562	4.3
Special transport vehicles	7,926	8,441	6.5
Cyclomotor	6,354	6,293	-1.0
Semi-trailer	7,143	7,448	4.3
Towing vehicles	5,530	5,869	6.1
Special purpose vehicles	4,291	4,540	5.8
Agricultural vehicles	1,549	1,489	-3.9
Trailer for freight transport	1,776	1,888	6.3
Technological vehicles	788	763	-3.2
Three-wheeler	807	800	-0.9
Trailer for special transport	772	884	14.5
Other Category	2,549	3,858	51.4

**Source:** General Directorate of Road Transport Services, calculations by INSTAT

## Road vehicles by prefecture

In 2023, the district with the highest number of road vehicles is Tirana with 34.7 %, followed by Durrës district with 13.4 % and Fier district with 9.3 %. The same trend is observed for cars.

Tab.2 Road vehicles by prefecture, 2023

Prefecture	Road vehicles	Passenger cars	Bus	Truck
<b>Albania</b>	<b>867,765</b>	<b>699,337</b>	<b>8,562</b>	<b>15,651</b>
Berat	35,267	25,921	395	789
Dibër	24,362	20,662	313	595
Durrës	116,639	96,272	1,147	1,865
Elbasan	60,119	48,142	624	1,167
Fier	80,582	63,252	697	1,582
Gjirokastër	18,991	15,122	231	565
Korçë	43,459	34,779	428	1,014
Kukës	20,319	17,621	183	495
Lezhë	43,029	35,727	386	869
Shkodër	61,882	49,247	582	1,016
Tiranë	300,998	243,340	2,915	4,589
Vlorë	62,118	49,252	661	1,105

Source: General Directorate of Road Transport Services, calculations by INSTAT

## Road vehicles by gearbox

Referring to the type of gearbox, it is noted that the majority of road vehicles (61.9%) have a manual gearbox.

"Manual" gearbox cars occupy a share of total vehicles resulting in "active" or "temporarily deregistered" status accounting 59.9 % in 2023 while Busses with Manual gearbox occupy a share of 80.7 % of total busses resulting in "active" or "temporarily deregistered" status.

Tab.3 Road vehicles by gearbox, 2023

Type of gearbox	Road vehicles	Passenger cars	Bus	Truck
Manual	537,350	405,251	6,913	14,562
Automatic	311,308	287,193	1,489	864
Semi-Automatic	7,162	6,246	142	135
Unspecified	11,945	647	18	90

Source: General Directorate of Road Transport Services, calculations by INSTAT

## Road vehicles by year of production

The number of vehicles registered in 2023, with year of production "2011-2023" increased by 40.0 %, the group "2000-2010" increased by 7.1 %, while the group of vehicles with year "before 2000" decreased by 1.4 %.

**Tab. 4 Passenger cars by year of production, 2022-2023**

Year of production	2022	2023	2023/2022 %
<2000	136,095	134,249	-1.4
2000-2010	423,783	453,804	7.1
2011-2023	79,501	111,284	40.0

**Source:** General Directorate of Road Transport Services, calculations by INSTAT

At a more detailed level, in 2023, vehicles aged 11-20 years constitute 49.5 % of the total number of vehicles with "active" or "temporarily deregistered" status.

**Tab. 5 Road vehicles by age, 2023**

Age	Passenger cars	Bus	Truck
0-2 years	7,805	58	69
3-5 years	10,787	28	135
6-10 years	40,227	225	374
11-20 years	346,220	3,250	3,246
> 20 years	294,298	5,001	11,827

**Source:** General Directorate of Road Transport Services, calculations by INSTAT

## Road vehicles by brand

Among the main brands of passenger cars circulating in the country, dominate the "Volkswagen" brand (18.6 %), followed by "Mercedez Benz" (18.1 %) and "Daimler Chrysler" (9.8 %).

**Tab.6 Road vehicles by brand, 2023**

Brand	Passenger cars	Brand	Bus	Brand	Truck
MERCEDES BENZ	126,622	MERCEDES BENZ	3,739	MERCEDES BENZ	7,870
VOLKSWAGEN	130,335	DAIMLER CHRYSLER	680	MAN	1,625
DAIMLER CHRYSLER	68,631	FORD	493	DAIMLER CHRYSLER	1,028
FORD	64,090	IVECO FIAT	415	IVECO FIAT	871
OPEL	34,246	MAN	349	IVECO MAGIRUS	793
AUDI	44,821	RENAULT	249	VOLVO	654
FIAT	26,153	SETRA	240	DAIMLER BENZ	508
TOYOTA	33,987	VOLKSWAGEN	229	SCANIA	364
BMW	23,667	IVECO	294	DAF	341
RENAULT	16,736	SCANIA	234	RENAULT	304
OTHER BRANDS	130,049	OTHER BRANDS	1,640	OTHER BRANDS	1,293

**Source:** General Directorate of Road Transport Services, calculations by INSTAT

For more information, please visit the website: <http://www.instat.gov.al/en/themes/industry-trade-and-services/transport-and-accidents/#tab3>

In 2023, the "Mercedez Benz" brand is registered as the most used brand car registered with the year of production before 2000 and the years 2011-2023. The Volkswagen brand is registered as the most widespread car brand with a production year of 2000-2010.

**Tab.7 Passenger cars by brand and year of production, 2023**

<2000	%	2000-2010	%	2011-2023	%
MERCEDES BENZ	35.6	VOLKSWAGEN	19.2	MERCEDES BENZ	20.2
VOLKSWAGEN	17.5	DAIMLER CHRYSLER	13.8	VOLKSWAGEN	17.8
FORD	7.4	MERCEDES BENZ	12.4	AUDI	12.3
OPEL	5.6	FORD	10.6	HYUNDAI	5.7
DAIMLER CHRYSLER	4.4	TOYOTA	6.3	FORD	5.3
AUDI	4.0	AUDI	5.7	BMW	4.8
FIAT	3.7	OPEL	5.4	LAND ROVER	4.2
RENAULT	3.0	FIAT	4.0	SKODA	3.8
DAIMLER BENZ	2.8	BMW	3.4	TOYOTA	3.1
BMW	2.3	RENAULT	2.5	FIAT	2.9
OTHER BRANDS	13.8	OTHER BRANDS	16.9	OTHER BRANDS	20.5

**Source:** General Directorate of Road Transport Services, calculations by INSTAT

### Passenger cars by fuel

The largest number of vehicles circulating in our country in 2023, use the fuel "Diesel" occupying 73.5 % from 73.7% in 2022, followed by vehicles that use the fuel "Petrol" with 16.3 % to the total number of vehicles from 16.7% that this group occupied in 2022.

The number of vehicles that use the fuel "Diesel" in 2023, increased by 9.1 % compared to 2022. The number of vehicles that use the fuel "Petrol" increased by 6.6 % compared to 2022.

The highest increase is shown in electric cars with 2.3 times more compared to 2022.

**Tab. 8 Passenger cars by energy, 2022 - 2023**

Indicator	Passenger cars 2022	Passenger cars 2023	2023/2022%
Diesel	470,930	513,760	9.1
Petrol	107,010	114,050	6.6
Petrol + Gas	57,569	64,401	11.9
Petrol + Electric	1,236	1,736	40.5
Electric	1,245	2,891	132.2
Gas	396	563	42.2
Diesel + Electric	439	740	68.6
Other hybrid	554	1,196	115.9

**Source:** General Directorate of Road Transport Services, calculations by INSTAT

The number of registered buses in 2023, which have used the fuel "Diesel" increased by 4.1 % while the number of buses that have used "Diesel+Electric" fuel has increased by 41.9% compared to 2022.

**Tab.9 Buses by source of energy, 2022 - 2023**

Source of energy	Buses 2022	Buses 2023	2023/2022%
<b>Total buses</b>	<b>8,211</b>	<b>8,562</b>	<b>4.3</b>
Diesel	8,144	8,480	4.1
Petrol	7	7	0.0
Petrol + Gas	18	20	11.1
Diesel + Electric	31	44	41.9
Gas	11	11	0.0

**Source:** General Directorate of Road Transport Services, calculations by INSTAT

### Passenger cars by engine size

The number of vehicles registered in 2023 according to engine volume >3000 increased by 16.2 %, with engine volume <= 2000 cc has increased by 9.3 % and with engine volume 2001-3000 has increased by 8.9 % compared to the same period year 2022.

**Tab.10 Passenger cars by engine size, 2022– 2023**

Engine size	2022	2023	2023/2022 %
<=2000	430,103	470,261	9.3
2001-3000	192,496	209,575	8.9
>3000	16,780	19,501	16.2

**Source:** General Directorate of Road Transport Services, calculations by INSTAT

The most widespread volume of cars with "Diesel" is 1400cc-1999cc accounting for 54.0 % of the total with diesel fuel. The most widespread volume of cars with "Gasoline" is below 1399 cc, accounting for 59.2 % of all cars with gasoline fuel.

**Tab.11 Passenger cars by energy source and engine size, 2023**

Engine size	Passenger cars using Diesel	Passenger cars using Petrol
<b>Total Passenger cars</b>	<b>513,760</b>	<b>114,050</b>
>1399cc	38,443	67,541
1400cc-1999cc	277,190	32,260
>2000cc	198,127	14,249

**Source:** General Directorate of Road Transport Services, calculations by INSTAT

# Methodology

The purpose of this publication is to present indicators on the characteristics of road transport vehicles at the most detailed level such as: road vehicles by type, cars by brand, cars by year of production, cars by fuel and cars by engine size.

In the detailing of vehicles by fuel, in the group "other hybrids" are included the categories "Gasoline + Gas + Electric", "Gasoline + Electric + Hybrid", "Oil + Gas", "Oil + Electric + Hybrid".

## Definitions

**Mixed transport vehicles (ATP)** - includes vehicles that have a total full load weight not exceeding 3.5 tons, or 4.5 tones when there is battery traction; are intended for the transport of people and goods with a maximum capacity of nine seats, including the driver's seat.

**Special purpose vehicles (APV)** - vehicles permanently equipped with special mechanisms and generally intended for the transport of these mechanisms; on these vehicles is allowed the transport of personnel and materials related to the operational cycle of these mechanisms, as well as the transport of people and goods related to the destination of use of these mechanisms.

**Special transport vehicles (ATV)** - means of transport intended for the transport of certain goods or people under special conditions and is characterized by the equipment jointly, with special mechanisms that serve this purpose.

**Special road vehicles (MRV)** - special road vehicle for their special characteristics defined as such in the Road Code.

**CC**- the unit of measurement of the motor volume of road vehicles expressed in centimeters in cubic.

**Passenger Car** - motor vehicle of road transport intended for passenger transport, in which the number of seats (including the driver) does not exceed the number 9.

**Bus** - motor vehicle of road transport intended for passenger transport with the number of seats (including driver's seat) with more than 9 seats.

**Cyclomotor** - A motor vehicle, with two, three or four wheels.

**Semi-trailer** - A motor vehicle intended for the transport of passengers and goods.

**Agricultural machine** - A motor vehicle with wheels or a chain intended for use in agriculture and forestry, for the transport of agricultural goods.

**Motorcycles** - Three-wheeled vehicles, intended for the transport of goods. They can have up to two seats for the people involved in the transport, including the driver.

**Towing** - Vehicle intended for towing trailers or semi-trailers only.

**Passenger cars per 1000 inhabitants** - This indicator is calculated based on the stock of vehicles on December 31 and the number of the population on January 1 of the following year.