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VOLUME OF ROAD TRAFFIC OF DOMESTIC VEHICLES, 2023

Detailed data on vehicle-kilometres travelled by domestic vehicles on the territory of the Republic of Croatia and on the foreign territory are published here. The data are based on administrative data obtained from the Center for Vehicles of Croatia and the Ministry of the Interior as well as on estimates of the Croatian Bureau of Statistics.

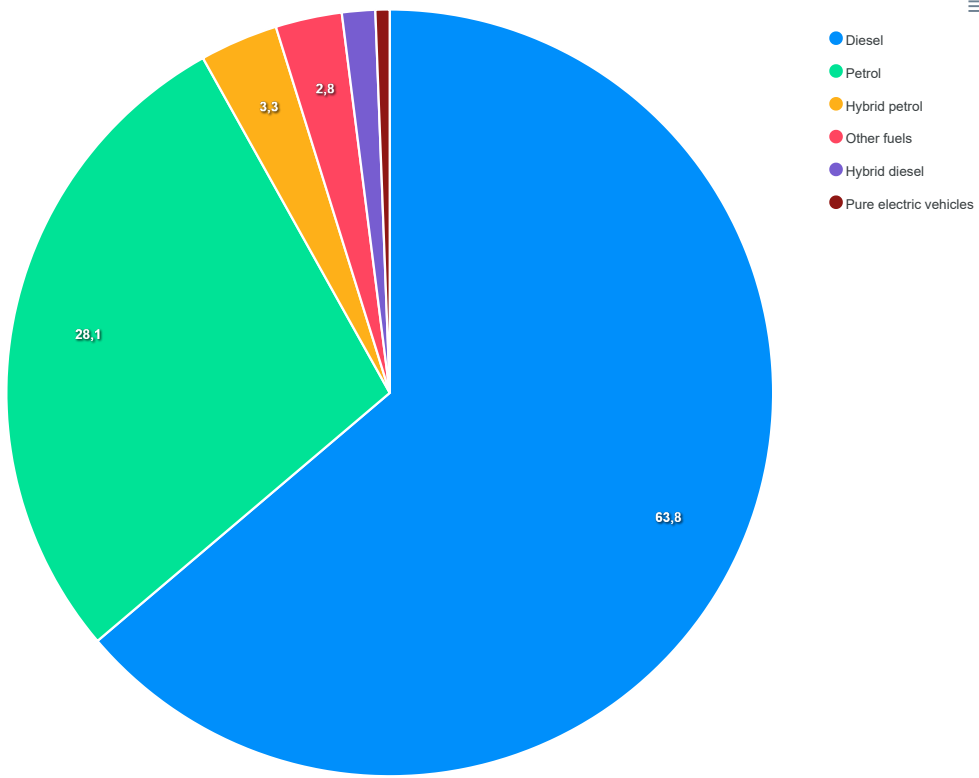
The volume of traffic expressed in vehicle-kilometres is an important indicator of transport performance of road traffic vehicles. Vehicle-kilometres travelled is an indicator of the environmental impact of the transport activity and one of the important indicators of traffic safety.

In 2023, vehicles registered in the Republic of Croatia travelled **31 395 million** vehicle-kilometres, which was 5.0% more than in 2022.

Out the total number of vehicle-kilometres travelled in 2023, passenger cars accounted for **78.3%**. The largest share in vehicle-kilometres travelled by passenger cars was generated by diesel-driven passenger cars, 63.8%.

Due to a continuous increase in the number of registered hybrid passenger cars, vehicle-kilometres travelled in this vehicle category in 2023, compared to 2022, showed the biggest growth. The vehicle-kilometres of hybrid petrol passenger cars increased by 74.3% and those of hybrid diesel passenger cars by 52.9%, as compared to 2022. The vehicle-kilometres of pure electric passenger cars increased by 25.6% compared to 2022.

G-1 SHARE OF TYPE OF FUEL IN REALISED VEHICLE- KILOMETRES OF PASSENGER VEHICLES, 2023



1 VOLUME OF ROAD TRAFFIC OF NATIONAL VEHICLES, BY TYPE OF VEHICLE, TYPE OF FUEL AND AGE OF VEHICLE, 2023

Mln vkm

	Total	Age of vehicle				
		Less than 2 years	2 to 4 years	5 to 9 years	10 to 19 years	20 and more years
Total	31 395	3 843	4 113	8 275	11 882	3 283
M1: Passenger cars	24 598	2 665	3 027	6 196	9 890	2 820
Petrol	6 906	1 053	889	975	2 798	1 191
Diesel	15 693	656	1 731	5 083	6 717	1 507
Pure electric	141	83	46	12	1	0
Hybrid petrol	801	569	178	45	9	-
Hybrid diesel	334	205	114	12	3	0
Other fuel	723	101	70	68	363	121
M2: Mini buses	19	0	2	5	11	1
Petrol	-	-	-	-	-	-
Diesel	19	0	1	5	11	1
Pure electric	0	-	0	0	0	-
Other fuel	-	-	-	-	-	-
M3: Buses and coaches	249	11	38	80	106	13
Diesel	244	11	36	80	104	13
Hybrid	0	0	-	-	-	-
Pure electric	-	-	-	-	-	-
CNG	0	-	-	0	-	-
Other fuel	4	-	2	0	2	0
N1: Goods vehicles up to 3.5 t MPW	3 592	588	650	1 071	1 072	213
Petrol	68	11	12	15	23	6
Diesel	3 493	569	631	1 050	1 037	206
Other fuel	32	8	6	6	11	1
N2: Goods vehicles between 3.5 t and 12 t MPW	275	7	22	52	129	65
Diesel	275	7	22	52	128	65
Other fuel	0	-	0	0	0	0
N3: Goods vehicles over 12 t MPW	2 167	479	316	799	491	81
Diesel	2 167	479	316	799	491	81
Other fuel	0	0	0	0	0	-
L1/L2/L6: Mopeds	98	2	10	16	45	25
Petrol	95	2	8	16	45	25
Pure electric	2	-	1	0	0	0
Other fuel	0	-	0	0	0	0
L3/L4/L5/L7: Motorcycles	344	77	42	54	132	40
Petrol	342	76	41	53	132	40
Pure electric	2	1	1	1	0	0
Other fuel	0	-	0	0	0	0
T5: Tractor on wheels	54	12	7	3	6	25
Diesel	36	1	1	2	6	25
Other fuel	18	11	5	1	0	0

NOTES ON METHODOLOGY

It may happen that the sum total does not equal the sum of individual figures, i.e. does not always equal the sum of individual results due to the rounding of numbers.

The estimate of vehicle-kilometres travelled by national vehicles was obtained on the basis of data on kilometres travelled by vehicles that had taken a vehicle inspection test and the number of registered vehicles in the Republic of Croatia. Data on kilometres travelled were obtained on the basis of odometer readings during regular vehicle inspections by the Center for Vehicles of Croatia in the period of three consecutive years for all motor vehicles which had to take vehicle inspection tests. Kilometres travelled by each individual vehicle are calculated on the basis of the difference in the odometer readings obtained during the last two vehicle inspections. Kilometres travelled by new vehicles, for which such data do not exist, are estimated using the imputation method.

Data on the average number of registered vehicles in the Republic of Croatia were obtained on the basis of the number of road motor vehicles registered with the Ministry of the Interior during two consecutive years.

Definitions

Vehicle-kilometre is a unit of measure representing the movement of a road motor vehicle over one kilometre. The distance to be observed is the distance actually travelled. It includes movements of empty road motor vehicles. Units made up of a tractor and a semi-trailer or a lorry and a trailer are counted as one vehicle.

Road vehicle is a vehicle running on wheels and intended for use on roads.

Road motor vehicle is a road vehicle fitted with an engine whence it derives its sole means of propulsion, which is normally used for carrying persons or goods or for hauling, on the road, vehicles used for the carriage of persons or goods. The statistics exclude motor vehicles running on rails.

According to Annex I to the Ordinance on the Conformity Assessment of Motor Vehicles and Their Trailers, motor vehicle categories are as follows: M1 (passenger cars), M2 and M3 (buses and coaches), N1, N2 and N3 (goods vehicles), L1, L2 and L6 (mopeds), L3, L4, L5 and L7 (motorcycles), and T5 (tractors on wheels).

Petrol vehicle is a road motor vehicle using petrol for propulsion containing up to 10% bioethanol.

Diesel vehicle is a road motor vehicle using diesel for propulsion containing up to 7% biodiesel.

Hybrid petrol vehicle is a road motor vehicle using petrol for propulsion, with, in addition, one or more electric motors for propulsion, where the electric motor(s) are powered from a traction battery which is charged by a generator driven by the petrol engine. Plug-in hybrid petrol vehicles where the traction battery can also be charged from an external electricity source (such as an electric socket) are included as well.

Hybrid diesel vehicle is a road motor vehicle using diesel for propulsion, with, in addition, one or more electric motors for propulsion, where the electric motor(s) are powered from a traction battery which is charged by a generator driven by the diesel engine. Plug-in hybrid diesel vehicles where the traction battery can also be charged from an external electricity source (such as an electric socket) are included as well.

Pure electric vehicle is a road motor vehicle using batteries to feed an electric motor for propulsion.

National vehicle is a road motor vehicle registered in the Republic of Croatia and bearing registration marks of the Republic of Croatia.

Abbreviations

CNG	compressed natural gas
mln	million
MPW	maximum permissible weight
t	tonne
vkm	vehicle-kilometre

Symbols

-	no occurrence
0	value not zero, but less than 0.5 of the unit of measure used

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