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# VOLUME OF ROAD TRAFFIC OF NATIONAL VEHICLES, 2024

Detailed data on vehicle-kilometres travelled by national 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 the estimates of the Croatian Bureau of Statistics.

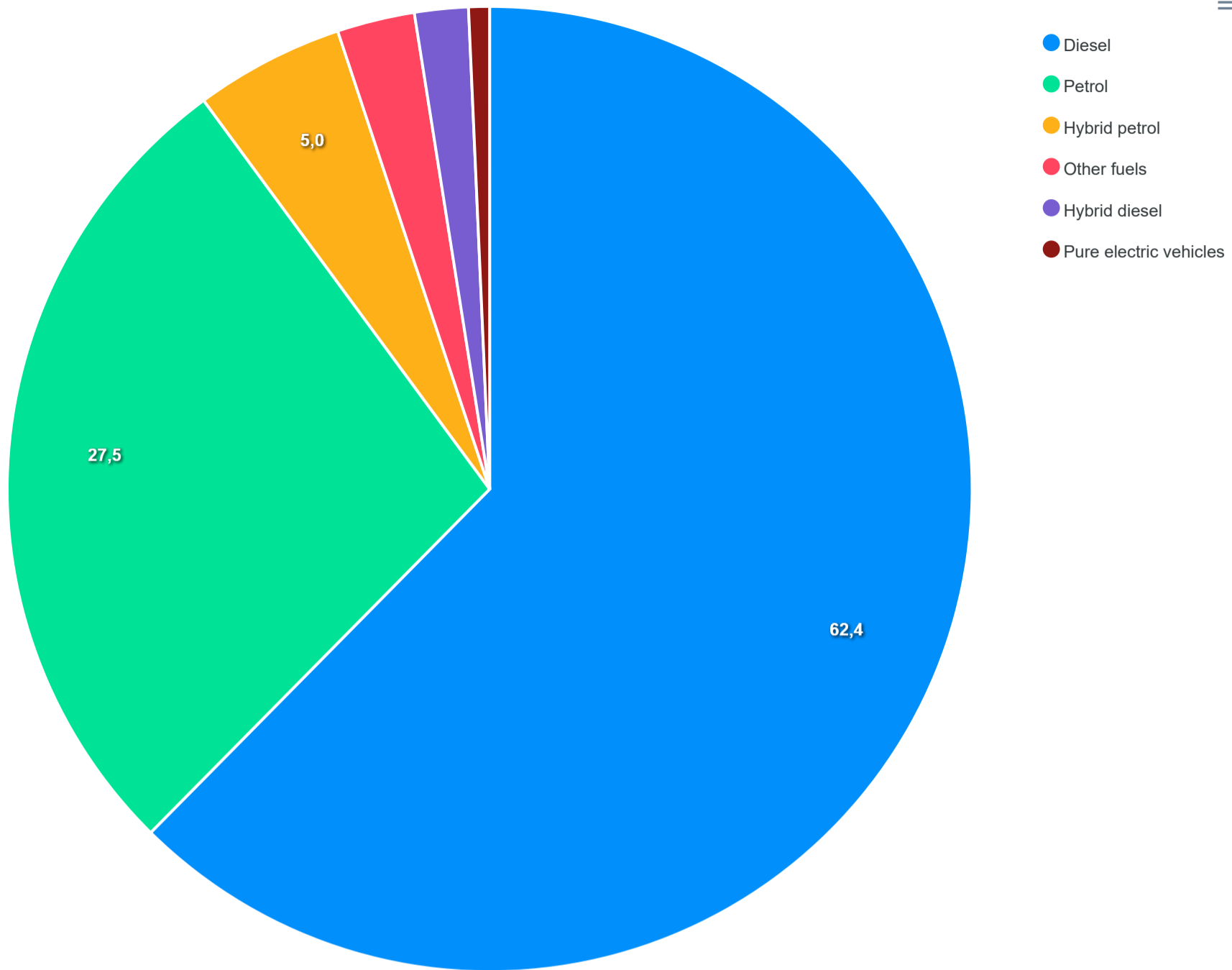
The volume of traffic expressed in vehicle-kilometres is an important indicator of transport performance of vehicles in road traffic. Vehicle-kilometres travelled are an indicator of the environmental impact of the transport activity and one of the important indicators of traffic safety.

In 2024, vehicles registered in the Republic of Croatia travelled **32 905 million** vehicle-kilometres, which was 4.8% more than in 2023.

Out the total number of vehicle-kilometres travelled in 2024, passenger cars accounted for **77.9%**. The largest share in vehicle-kilometres travelled by passenger cars was generated by diesel passenger cars, 62.4%.

Due to a continuous increase in the number of registered hybrid passenger cars, vehicle-kilometres travelled in this vehicle category in 2024, compared to 2023, showed the biggest growth. The vehicle-kilometres of hybrid petrol passenger cars increased by 58.9% and those of hybrid diesel passenger cars by 35.9%, as compared to 2023. The vehicle-kilometres of pure electric passenger cars increased by **23.0%** compared to 2023.

G-1 SHARE OF TYPE OF FUEL IN REALISED VEHICLE- KILOMETRES OF PASSENGER VEHICLES, 2024



1 VOLUME OF ROAD TRAFFIC OF NATIONAL VEHICLES, BY TYPE OF VEHICLE, TYPE OF FUEL AND AGE OF VEHICLE, 2024

MIn 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	32 905	4 569	3 966	8 848	11 987	3 535
M1: Passenger cars	25 617	3 040	2 911	6 655	9 972	3 039
Petrol	7 057	1 104	888	1 243	2 612	1 210
Diesel	15 985	682	1 351	5 211	7 026	1 715
Pure electric	174	74	78	20	2	0
Hybrid petrol	1 273	885	303	72	13	0
Hybrid diesel	454	203	214	33	4	-
Other fuel	675	93	78	76	315	114
M2: Mini buses	24	6	1	5	10	1
Petrol	-	-	-	-	-	-
Diesel	24	6	1	5	10	1
Pure electric	0	-	0	0	0	-
Other fuel	-	-	-	-	-	-
M3: Buses and coaches	277	31	31	95	106	13
Diesel	273	31	29	95	105	13
Hybrid	1	-	1	0	-	-
Pure electric	-	-	-	-	-	-
CNG	0	-	-	-	0	-
Other fuel	2	-	2	0	0	0
N1: Goods vehicles up to 3.5 t MPW	3 880	768	600	1 167	1 115	231
Petrol	61	5	10	17	22	6
Diesel	3 789	759	580	1 144	1 082	224
Other fuel	30	3	10	6	10	1
N2: Goods vehicles between 3.5 t and 12 t MPW	267	8	19	52	123	65
Diesel	267	8	19	52	123	64
Other fuel	0	-	-	0	0	0
N3: Goods vehicles over 12 t MPW	2 274	567	337	793	493	84
Diesel	2 272	567	335	792	493	84
Other fuel	3	-	2	0	0	-
L1/L2/L6: Mopeds	118	27	12	15	37	28
Petrol	109	23	7	14	37	28
Pure electric	9	4	4	1	0	0
Other fuel	0	-	0	0	0	0
L3/L4/L5/L7: Motorcycles	389	107	46	62	125	48
Petrol	387	107	45	61	125	48
Pure electric	2	-	1	1	0	0
Other fuel	0	-	0	0	0	0
T5: Tractor on wheels	60	15	8	4	6	26
Diesel	36	1	1	2	6	26
Other fuel	24	15	7	2	0	1

## NOTES ON METHODOLOGY

It may happen that the sum total does not equal the sum of individual figures, i.e. that cumulative data do 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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