

# IMPLEMENTING THE MANAGEMENT SYSTEM FOR THE VEHICLES OUT OF USE

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**Abstract:**

*This paper presents the implementation of the management system for the vehicles out of use in order to achieve the objectives set by the Directive 2000/53/CE. It is also presented the situation of the out of use vehicles collection from Timis County in 2006-2008 and the entities that manage the collection/treatment of the out of use vehicles, with the activities developed by these economic agents according to the legislation in effect.*

**Key words:** *out of use vehicles, collection, treatment, waste.*

**JEL classification:** *Q56*

The out of use vehicles (OUV) are among the waste products with the highest increasing rate in the world. From the 150 million automobiles on the European roads, 10 millions are eliminated each year. This means that annually are produced 10 billion tones of waste products. A large amount of these waste products are deposited, incinerated or capitalized without a previous treatment. As a result, a considerable amount of dangerous substances are released in the environment and large quantities of valuable resources are lost.

Given that the EU pays attention to the recycling of hazardous waste and especially to waste from dismantling out of use vehicles, it was approved the European Directive 2000/53/EC on the management of out of use vehicles. Directive 2000/53/EC was issued taking into account the need for uniform regulation at EU level on how to administrate out of use vehicles.

The directive establishes measures aiming primarily at the prevention of waste production from vehicles and, on the other hand, reusing, recycling and other forms of recovery of out of use vehicles and their components in order to reduce the amount of waste for disposal and also to improve the efficiency on the environment, of economic operators involved in the life cycle of vehicles and in particular those directly involved in treating out of used vehicles.

Its aim is to limit as much as possible the impact on the environment and human health, impact produced by the out of use vehicles management and to harmonize existing legislation in Member States in connection with this matter.

Achieving goals is to be expected by applying the principle of polluter pays in conjunction with the principle of extended producer responsibility (principle which requires that the manufacturer is responsible for managing the products placed on the market after they become waste). In order to apply this principle the Directive provides the obligation of the producers to ensure the collection at least for free from the last owner of out of use vehicles and implicit the organization, individually or by contracts with third parties of their

treatment respecting the minimum conditions and achieving the reuse, recycling and energetic capitalizing

### **The current management system of out of use vehicles in Timis county**

Romania transposed this European Directive at the end of 2004 by Government Decision 2406/2004 regarding the management of out of use vehicles, modified and completed by GD no. 1313/2006 and 625/2007 Order , to prevent waste accumulation and to allow reuse, recycling and capitalizing of vehicles and their components.

Directive concerning OUV applies to vehicles of categories M1 and N1 as defined in Annex II of Directive 70/156/EEC, as well as to vehicles with three wheels, but excluding motor tricycles. Vehicles in category M1 are used to transport people, having no more than 8 seats in addition to the driver's place, while vehicles of category N1 are used for transporting freight, with a maximum weight not exceeding 3.5 tones .

According to GD no. 2406/2004, starting in 2007, economic operators were imposed to achieve the following targets for recycling and capitalizing:

- Reuse and capitalizing of at least 75% from the mass of vehicles manufactured before 1 January 1980;
- Reuse and capitalizing of at least 85% from the mass of vehicles manufactured after 1 January 1980;
- Reuse and capitalizing of 70% from the mass of vehicles manufactured before 1 January 1980;
- Reuse and capitalizing of 80% from the mass of vehicles manufactured from 1 January 1980;

The targets could be achieved in two ways: individually by the producers (in their own facilities or authorized installations of economic operators that have contract with the manufacturers) or by transferring this responsibility to an authorized legal person, in accordance with the provisions of Order 1224/2005. For this purpose, all producers should ensure starting from 1 October 2006, at least one collection point in each county and city with over 100,000 inhabitants.

Out of use vehicle will be handed to the collecting stations without any expense to the owner, unless they aren't registered in Romania, when they were temporarily registered in Romania, when not containing one or more essential components, mainly the power, bodywork, chassis, catalyser or equipments for the vehicle functions management or when vehicles were added with waste.

Are excepted from these conditions vehicles without owner or abandoned vehicles on public or private domain of the state. Collection companies will deliver to the last owner a certificate of destruction of the out of use vehicle.

All these factors make companies that dismantle out of use vehicles to have a key role in applying GD 2406/2004 and also in respecting the obligations arising from the application of the *acquis communautaire*.

Main activities of those companies are linked to:

- collecting out of use vehicles (OUV);
- Out of use vehicles (OUV) de-pollution;
- Dismantling-recovery of materials in order to recycle / capitalize
- Mincing: capitalizing ferrous and nonferrous metals
- Post-shredder separation of nonmetallic flows.

Economic collectors, respective OUV dismantlers, can operate only under permits issued by local agencies for environmental protection, and Romanian Auto Registry and in the opinion issued by the Police Inspectorate.

GD no. 2406/2004 on the management of out of use vehicles provides the necessary technical requirements to be fulfilled by all authorized treatment facilities, namely, collectors of OUV are obliged to ensure impermeable surfaces for temporary storage of vehicles removed from use before treatment and also equipment to treat water, including rainwater in accordance with regulations relating to environment and health. Also there must be provided areas for storage the reusable parts containing or not fluids, but also for solid waste storage for recycling, energetic capitalization or disposal. In Timis county there is a network of companies who have developed activities for the collection, dismantling out of use vehicles and capitalizing the resulted components.

In Romania and also in Timis county, the most of the economic operators that are treating OUV are dismemberer and the most of operations are realized manual. Because appreciatively 70 % from the vehicle's mass is represented by the metallic component, the capitalization of this one can be considered an profitable economic activity. At Timis county level, economic agents that are developing collection/ treatment activities of vehicles out of use are: SC Muller Guttenbrunn Recycling SRL, SC Poem SRL, SC Celuloză și Oțel SRL, SC City Trans Star SRL si SC Kredli SRL. The most resulted components after the vehicles dismembering are sent to profil units for recycling or energetic capitalization.

From the evidences that have LEPA Timis, lower, we present the collected vehicles out of use quantities, respectively treated/disembered in 2006-2008 period:

Tabel 1

Collected/disembered vehicles out of use in 2006-2008 period:

Year	Collected vehicles	Treated/disembered vehicles
2006	1289	1201
2007	1289	1201
2008	1790	1674

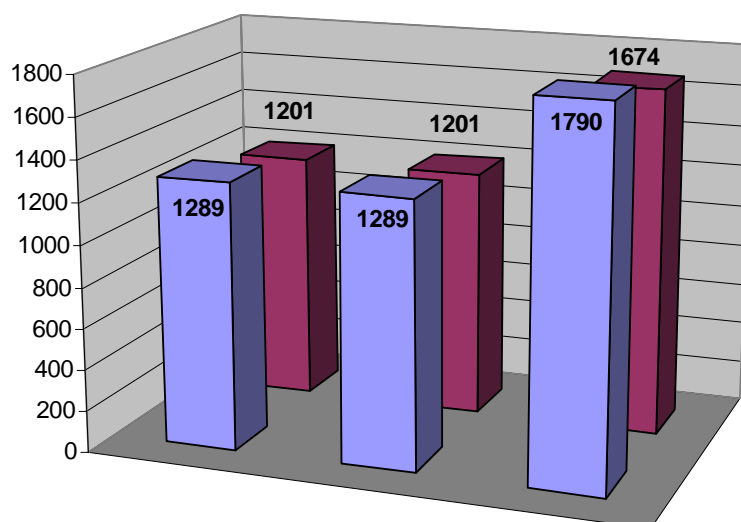


Fig. 1. The evolution of collected/treated vehicles out of use in 2006-2008 period

Also through the Programme of Stimulating the Renewal of Auto National Park, integral financed and sustained from Environment Fond incomes in 2006-2008 period have been taken of collectors economic agents from Timis county, 2657 vehicles with an age bigger than 12 years, according to the graphic below (1054 OUV in 2006, 610 pieces in 2007, 993 pieces in 2008).

Table 2

Colected vehicles in the period 2006-2008 inside the Programme of Stimulating the Renewal of Auto National Park, in Timis county.

Year	Colected vehicles
2006	1054
2007	610
2008	993

**Colected vehicles in period 2006-2008 inside the Programme of Stimulating the Renewal of Auto National Park, in Timis county**

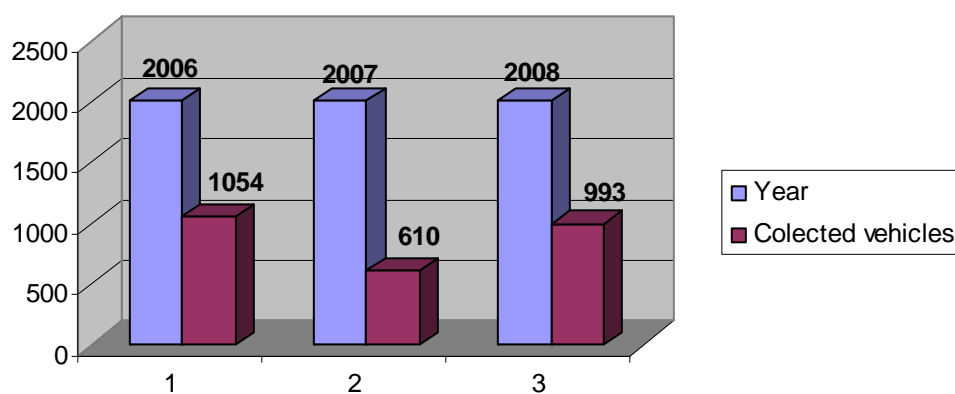


Fig. 2. The evolution of collected vehicles in period 2006-2008 inside the Programme of Stimulating the Renewal of Auto National Park, in Timis county.

**Conclusions:**

Starting with year 2007 Romania should have assured the realization of 80 % from the vehicle mass reutilization/recycling objective which is the first stage to a society of recycling. Through the raising of percentage of reutilization/capitalization till 95 % in 2015, we can say that OUV are not any more wastes, but substitute pieces, secondary prime material, sources of alternative energy.

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