



ANNUAL REPORT 2017

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Acknowledgements: There are too many, and as omission may offend, we would just like to thank everybody.

Disclaimer: We have attempted to be as accurate and precise as possible, but the legal eagles insist that nothing we say or write can be relied upon. If you get into trouble based on the contents of this document, it is not our fault, either through our information provision or your use of it. So, as in most areas in life, you are responsible for your own thoughts and deeds however you may have formed or arrived upon them. You have been informed.

Corrections: We love feedback, corrections, opinions, musings, especially where it enhances everyone's general knowledge, wisdom, and understanding. So please send any feedback to info@elves.ie.

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Acronyms and abbreviations: There are a lot of these and we have listed them at the end of the document.

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1 The Rear View

Welcome to ELVES' first annual report reflecting our activities and achievements in 2017. The ELVES team in 2017 consisted of Pat Kierans, myself, and Elena Wrelton.



At the start of the year we had a plan to quickly establish a Network of ATFs nationwide that would comprehensively serve the public who wished to scrap their old cars with ease and reassurance.

Once done, our task was then to tell people about it. On a fine sunny day in May, Minister Denis Naughten officially launched ELVES. We even had a cake in the shape of our mascot, the Heinkel bubble car. This we followed with our education and awareness campaign through available media channels. The response from the public was overwhelmingly positive.

At the same time, we needed to make it easier for the ATFs as well, primarily in generating an electronic CoD. On this matter we are indebted to the people in the NVDF (part of DTTaS) for their hard work in addressing this and refining their on-line portal into something that is very user-friendly by the ATFs. In addition, the NWCPO worked at making the ATF reporting of reuse and recycling activities more uniform and centralised.

In the build-up to our first year of approval, we had already cemented working relationships with metal shredding and recycling companies, Clearway (aka Hammond Lane) and Oran Metals (formerly ClearCircle), and with the IMVRA. We greatly acknowledge their efforts and role in achieving targets throughout the year.

Finally, other used car importers, who have obligations and responsibilities to the environment in Ireland, need to join up and be part of the story in national vehicle recycling. We are sure they will in 2018.

Fiacra Quinn, CEO.

2 ELVES – Who we are

ELV Environmental Services CLG was established in 2014, known to you as ELVES, and is the producer compliance scheme for end-of-life vehicles (ELVs) in Ireland. We represent our members including vehicle manufacturers, distributors, importers and the Authorised Treatment Facilities that join our ATF Network. We are a not-for-profit company limited by guarantee and not having a Share Capital.

We operate under approval from the Minister for Communications, Climate Action and Environment under the European Union (End-of-Life Vehicles) Regulations, as amended.

ELVES' mission is to improve the processing of End-of-Life Vehicles (ELVs) in Ireland. By this we mean the reuse of component parts through dismantling, the recycling of metallic and non-metallic elements that make up a vehicle, and the recovery of what is left through waste-to-energy processes.

ELVES promote its Network of ATFs that provide free ELV take back to the public. This is done on behalf of its members, the vehicle manufacturers, distributors and importers, those being the business undertakings that place specified vehicles on the road in Ireland for the first time. Through effective promotion, monitoring and data collection across its Network, ELVES will enable its members and the ATFs in its Network to meet their responsibilities under the Regulations for the sector.

3 Irish Regulations on ELVs and Associated Matters

ELV Regulations in Ireland are regulated by the Department of Communications, Climate Action and Environment (DCCAE) and enforced by both the local authorities and the Environmental Protection Agency (EPA). However, there are other agencies involved, both directly as a result of the ELV Regulations and indirectly through associated legislation as a result of when a vehicle becomes a waste. Broadly, a vehicle becomes a waste when the registered owner intends or is required to discard it, regardless of condition, value, or age. The local authority or Garda Síochána may also have an involvement in disposing of abandoned or repossessed vehicles.

To illustrate the involvement of some of the various state agencies, we have given a high level summary and understanding of their roles here:

Local Authorities:	An ATF must have waste planning permission from their local authority or be planning exempt prior to applying for a Waste Facility Permit and establishing a treatment facility. Waste Facility Permits are granted by the relevant local authority. An ATF must be in possession of a current waste permit in order to operate a treatment facility, the conditions of such will require the ATF to report annually on its activities and be inspected by the local authority as required. Waste activities must now be reported to the National Waste Collection Permit Office (NWCPO).
NWCPO:	Currently, the NWCPO accepts and processes all new Waste Collection Permit applications and review current ones. It also keeps the registers of Waste Facility and Waste Collection Permits.
EPA:	The EPA collate waste data from local authorities and the NWCPO. In specific instances, the EPA will collect data directly from permitted operations. It may also audit those operations.
NVDF (DTTaS):	The National Vehicle and Driver File (NVDF) is a database containing details of all registered vehicles and their owners in the country. The system is maintained and supported by the Driver and Vehicle Computer Services Division of the Department of Transport, Tourism and Sport (DTTaS). In order for a vehicle to be removed from the NVDF, a Certificate of Destruction (CoD) must be issued against it. In addition to processing the CoDs issued by ATFs, the NVDF also operate the electronic CoD system (eCoD).

This is quite a high level description and naturally does not purport to be a legal interpretation or detailed description of the functions of the stakeholders. In most cases, there are guidance documents on each of the stakeholders' websites.

4 ATFs and the ELVES Network

The EU targets require that there is a minimum 85% reuse of component parts and recycling of the ELV, with a further minimum 10% recovery on top of this (e.g. in an Waste-to-Energy facility/incinerator). This is an overall 95% reuse, recycling and recovery of an ELV.

An ATF (traditionally known as a scrapyard) is a place (authorised by the local authority) where the collection and the storage and the appropriate treatment and recovery of vehicles may take place. Treatment includes depollution (e.g. draining oils, deploying airbags), and the removal of parts, such as mirrors, batteries and headlights, for reuse or for recycling.

When an owner or holder of the vehicle deposits it at an ATF, a CoD is issued. Like a transaction or change of ownership, the CoD signifies that the last owner has relinquished responsibility for the vehicle from that point onwards. It does not mean an ATF assumes responsibility for tolls or fines, so no luck there.

At the point of issue of the CoD, the vehicle is marked as scrapped on the NVDF and the vehicle is now officially an ELV. It means that the depollution process should be completed within 10 days of acceptance by an ATF. Unlike the words 'Certificate of Destruction' may suggest, the ELV will not necessarily be "destroyed", crushed or shredded after depollution. It may be stored indefinitely on the ATF's site while being dismantled and the parts sold for reuse to individuals or other traders.

The depollution process carried out at ATFs is a vital first step in the reuse and recycling of an ELV and assists considerably with the attainment of obligated regulatory targets. Firstly, all fuel, motor oil, transmission oil, gearbox oil, hydraulic oil, cooling liquids, anti-freeze, brake fluids, air conditioning system fluids and any other fluid contained in the ELV are removed, unless they are necessary for the reuse of the parts concerned. Most of these fluids should not be mixed (e.g. fuel and brake fluid should be stored separately), and they can be either reused, recycled or recovered. Airbags and other pyrotechnics must be deployed, followed by the removal of the (industrial) starter battery. If the vehicle ran on liquid petroleum gas, then that particular tank must be removed. To further promote recycling, the catalyst and tyres should be removed.

To assist ATFs in the depollution and dismantling of ELVs, vehicle manufacturers have created an online database that provides dismantling and safety information on all marques of vehicles and is free for ATFs to access. It can be found here www.idis2.com.

The ELVES Network

ELVES started building the ATF Network at the beginning of 2017. A number of ATFs had been in contact about joining previously, from hearing of the company through the IMVRA and ELVES.



An ELVES ATF

is part of the ELVES ATF Network and will accept free of charge in accordance with the provisions of the End-of-Life Vehicles (ELV) Regulations any ELV for appropriate treatment.


A charge may be imposed where the essential components of the ELV are missing or where waste has been added to that ELV.

www.elves.ie ELV Environmental Services

The process was simple enough. As ATFs contacted us, we went to their facilities and saw their operations first-hand.

As ELVES is a collective scheme representing a large number of vehicle manufacturers and importers, the contract to be part of the Network is now between ELVES and the ATF.

These ATFs play a vital role as the front line in the dismantling (reuse of parts) and initial recycling of ELVs in Ireland.



Do you operate an ATF?

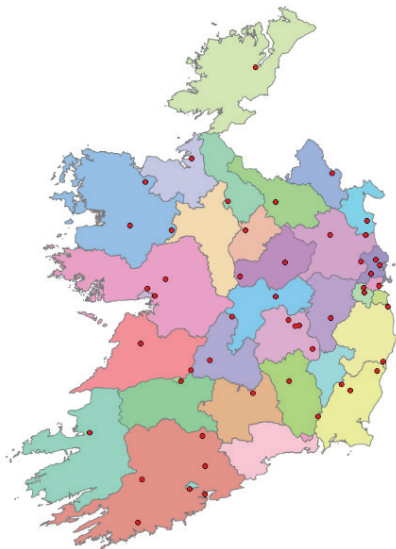
Then you need to know about ELVES, the new compliance scheme for ELVs

Over the coming months, ELVES will be building a network of ATFs.

To find out more, visit our website:

www.elves.ie





As per the Regulations, the public who wish to scrap a car must have easy access to an ATF and be able to scrap a car free-of-charge.

This means that within a Network, there must be an ATF within 45km of a population centre of 15,000 people or more. Towards the end of 2017, ELVES have signed up 49 ATFs to the Network. Additionally, we went one better by having an ATF within 45km of a population centre of 10,000 people or more.

The public is further facilitated, as many of the ATFs offer a collection service should the last owner be unable to bring their car to the ATF.

AER Reporting 2017

ATFs are required to submit their ELV information and dismantling data to ELVES as a requirement for joining the Network. They previously reported this to the EPA. This changed in 2017 with an extension being added to Annual Environment Return (AER) system administered by the NWCPO. ELVES receive this data on 2017 throughout 2018 and are processing it. Our reporting on target achievements is based on data received to-date. This process is on-going.

Communications to our Network

ELVES communicates in a variety of ways with the members of the ELVES ATF Network, including site visits, phone calls and emails. As the Network has grown, we have switched to an email management system, Mail Chimp, to send out regular communications to ATFs.

Through these emails we provide key information to the ATFs including:

- How to report data;
- How to sign up to ELV Online; and
- How to sign up to the International Dismantling Information System (IDIS).

These formal communications are accompanied by one-to-one phone calls, email and in-person support as required.



5 ELVES Launch

Minister Denis Naughten and the staff in the Waste Policy & Resource Efficiency Division in the DCCAE kindly agreed to formally launch ELVES as the compliance scheme for ELVs on the 25th May, 2017. The morning started well with a positive slot on RTE Radio1, Morning Ireland, the stream of which can be found here:

https://www.rte.ie/radio/utis/radioplayer/rteradioweb.html#!ri=b9_21178660_48_25-05-2017



The event was well attended by the press and the motoring industry and the sun shone. To celebrate, we had cake ... in the shape of a Heinkel car, Belgian chocolate flavour.



We are always asked, why the Heinkel? Our Heinkel is part of the family. It was built in Dundalk in 1961, so it is truly Irish, and as a fully restored and working fleet vehicle (NCT'd and insured), it symbolises the top tier and spirit of

the ELV Regulations, the reuse of vehicle parts and components for the purpose of keeping a vehicle going. We have not named it yet, so we may be looking for suggestions in 2018.

Our message and reach in the press concerning the launch was wide and we featured in the following print and on-line media:

Irish Times
Irish Independent
Mail on Sunday
The Corkman
Leinster Express
Fingal Independent
Mid-Louth Independent
Wexford People
The Anglo-Celt

Tipperary Star
Offaly Express
Westmeath Independent
Clare Herald
New Ross Standard
Enniscorthy Guardian
Gorey Guardian
Sligo Today

Irish Motor Management
Irish Car & Travel
Fleet Car & Van
Enviro Solutions
CIWM News
Autobiz
LA News
Recycling International
ATF Professional

6 Education and Awareness

Awareness is a key part of the ELVES business plan. Information is circulated through visual and radio ads, Facebook posts and the team attending events. These are an important aspect in getting the ELVES message out to the general public.

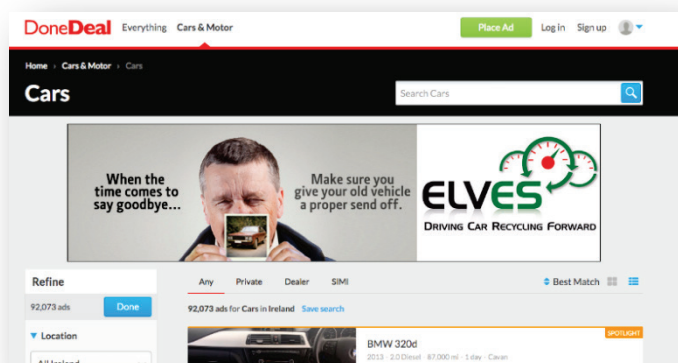
In addition to the media created around our launch, our wider media campaign made a good start in raising awareness, demonstrably impacting visits to our website and resulting in positive feedback from ATFs in the Network. Our key objectives for our public awareness activities were to:

- Promote the right way to scrap a vehicle - use an ATF and get a CoD; and
- Promote the ELVES Network of ATFs.

In addition to public focused advertising we undertook motor dealer focused advertising that aimed to raise awareness of the ELV obligations of used vehicle importers and increase ELVES membership.

Advertising

A number of different types of advertising were used to increase awareness on what ELVES do. Print, online, radio and outdoor.



ELVES Public Radio Advert
<http://bit.ly/2vYnivr>

Media Coverage

In addition to advertising, in 2017 we achieved some great media coverage, all aimed at raising awareness of ELVES and the vehicle recycling process.

What to do with old bangers

Express Reporter
e-mail: reporter@express.ie
twitter: [gibsones](https://twitter.com/gibsones)

ELV Environmental Services (ELVES) is a new Irish compliance scheme that has been set up by vehicle manufacturers to improve the recycling of scrap vehicles and to help encourage compliance with End-of-Life Vehicle (ELV) Regulations.

Around 90,000 vehicles are scrapped annually in Ireland. ELVES' aim is to improve the reuse of parts and recycling of ELVs in order to help Ireland meet national targets. In 2014, Ireland reused, recycled and recovered 91% of its ELVs. Since 2015, 95% of a vehicle must be reused, recycled or recovered, with a minimum of 85% from reuse (components) or recycling. ELVES' aim is to bring this rate up to 95%.

At Metal Recycling Ltd, Acragar, Mountmellick and Whelans Auto Dismantlers Ballydravis, The Heath, Portlaoise are the two scrap yards that are designated Authorised Treatment Facilities (ATFs).

The ELV Regulations oblige owners of vehicles that are no longer roadworthy, such as passenger cars and small vans, to use a permitted scrapyard and have their vehicle recycled. ELVES aims to generate awareness of its national network of permitted scrapyards. These

ATFs will provide a FREE drop off service to the public for scrap vehicles. Similar to recycling at a bring bank or civic amenity site, ATFs will enable people to easily hand over their vehicles for recycling and recovery.

ELVES is establishing a nationwide network of ATFs around Ireland. This network has a good geographical spread with nearly 40 ATFs currently within the scheme. The network is still growing with ELVES regularly recruiting new ATFs to the network.

When a consumer or a garage scraps a vehicle at an ATF, they should ask for a receipt of the transaction, called a Certificate of Destruction (CoD), from that facility to show that they have handed over the vehicle to be recycled.

The CoD is the final one for it. It is the receipt that the vehicle has been handed over to the ATF, they should ask for a receipt of the transaction, called a Certificate of Destruction (CoD), from that facility to show that they have handed over the vehicle to be recycled and recovered. The CoD will confirm that the vehicle has been accepted as an ELV and this then ends the final owner's responsibility for it. The ATF will look after the requirements of the process. This will include recycling of fuel and other fluids, dismantling and reuse of component parts, and the recycling of metal and materials. A list of local ATFs can be found on www.elves.ie.

that they are informed about getting a Certificate of Destruction (CoD). This ends their relationship with the vehicle. We are currently building a nationwide network of ATFs, which will enable the public to easily find a scrapyard near them. Our funding comes from vehicle manufacturers, who are members of ELVES, and they have shown commitment to achieving national targets in a collective manner. Promoting reuse of parts and recycling is key to this."

Minister Denis Naughten who was on hand to launch the ELVES scheme, added, "Most people are conscious of their own environmental responsibilities and want to recycle and reuse as much as possible. Knowing which

Recycled Parts

Positive reaction to ELVES introduction

ELV Environmental Services (ELVES) has reported a very positive response to the launch of a new Irish compliance scheme that has been set up by vehicle manufacturers to improve the recycling of scrap vehicles and to help encourage compliance with the End-of-Life Vehicles (ELV) Regulations. The new programme was launched at the end of May and has already established a nationwide network of Authorised Treatment Facilities (ATF) around Ireland.

The ELV Regulations oblige owners of cars and light commercial vehicles that are no longer roadworthy, to use a permitted scrapyard/dismantler to have their vehicle recycled. ELVES aims to generate awareness of its national network of permitted Authorised Treatment Facilities (ATFs) who will provide a free drop off service to the public for

scrap vehicles. The programme works in a similar way to recycling at a bring bank or civic amenity site.

When a consumer or a garage scraps a vehicle at an ATF, they should ask for a receipt of the transaction, called a Certificate of Destruction (CoD), from that facility to show that they have handed over their vehicle to be recycled and recovered. The CoD will confirm that the vehicle has been accepted as an ELV and this then ends the final owner's responsibility for it. The ATF will look after the requirements of the process. This will include recycling of fuel and other fluids, dismantling and reuse of component parts, and the recycling of metal and materials. A list of local ATFs can be found on www.elves.ie.



At the ELVES launch LtoR: Colin Griffin, Fiat Group Ireland, Stephen McDonnell, Volkswagen Group Ireland, Fiacra Quinn, ELVES, Noel Hughes, Subaru Ireland & Claran Kinahan, Motors Distributors Ltd.



Minister Denis Naughten, with Fiacra Quinn & Elena Wretton of ELVES

Around 90,000 vehicles are scrapped annually in Ireland. ELVES' aim is to improve the reuse of parts and recycling of ELVs in order to help Ireland meet national targets. In 2014, Ireland reused, recycled and recovered 91% of its ELVs. ELVES' aim is to increase this rate to 95%.

Fiacra Quinn of ELVES commented, "ELVES is committed to raising public awareness of why, where and how to scrap a vehicle. We want consumers to check the ELVES website for a list of authorised treatment facilities and to make sure that they are informed about getting a Certificate of Destruction. We are currently building a

nationwide network of ATFs, which will enable the public to easily find a scrapyard near them. Our funding comes from vehicle manufacturers, who are members of ELVES, and they have shown commitment to achieving national targets in a collective manner. Promoting reuse of parts and recycling is key to this."

Minister Denis Naughten who was on hand to launch the ELVES scheme, added, "Most people are conscious of their own environmental responsibilities and want to recycle and reuse as much as possible. The ELVES scheme will give people that information and make it much easier for them access the all-important details on how to dispose of their end of life vehicles quickly and easily. It is to be commended that the motor industry has come together with the ELVES scheme to address those issues."



End of life vehicles - new scheme announced

60,000 vehicles are scrapped annually in Ireland and a new scheme has been announced to deal with these end of life vehicles.

ELV Environmental Services (ELVES) is a new Irish compliance scheme that has been set up by vehicle manufacturers to improve the recycling of scrap vehicles and to help encourage compliance with End of Life Vehicles (ELV) Regulations.

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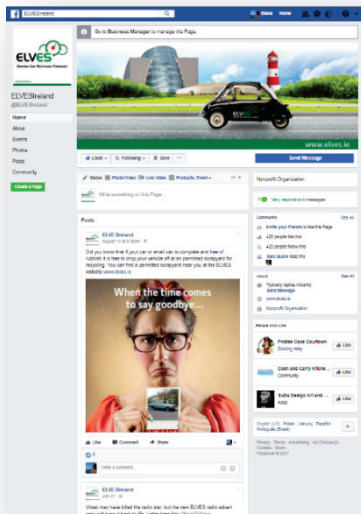
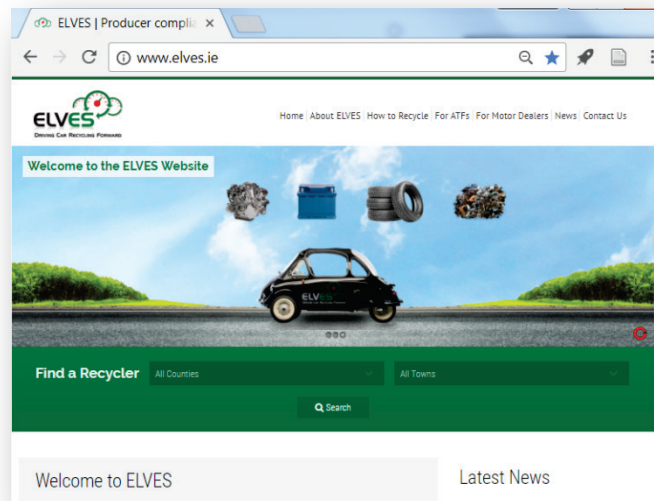
DIGITAL NEWSSTAND

Tipperary Star

Website and Social Media

Through our website, a person scrapping their vehicle can find an ATF near them plus find out key information on the process – how to identify an ATF, what a CoD looks like and why they should recycle.

The approach is simple. A person indicates their general location and a variety of ATFs nearby is shown on a map. Also shown are contact details and whether the ATF can collect the vehicle. Furthermore, the person can directly email the ATF using our website.



Through Facebook, we promoted our ATF Network, ran competitions and raised awareness of car recycling.

Events

With our Heinkel in tow, we had a presence at a number of events including Mondello, Mosney Car Show and Terenure Car Show.



7 Projects

During 2017, a number of projects were rolled out, namely the Electronic Certificate of Destruction Improvement Programme and the Traction Battery Programme.

Electronic Certificate of Destruction

During 2017, ELVES worked with DTTaS to make improvements to the ELV Online system. The online system has been operational for a number of years, but use by ATFs remained low. With the support of DTTaS, ELVES talked to a number of ATFs to identify issues and identify solutions with the intention of making the system easier to use and removing any unnecessary barriers to issuing an eCoD.

DTTaS made the changes to the system in late 2017 and since then ELVES has been working with DTTaS and the local authorities to encourage sign up to the system. Current ATF Network members have been encouraged to sign up to the system and it is now a requirement for any new ATF wanting to join the ELVES ATF Network. Now the improved system is up and running, we will be talking to ATFs further about any barriers that remain in using it. This is with a view to supporting DTTaS' aim to make the system mandatory at some point in the future.



Traction Battery Programme

During 2017, work was carried out on developing the Traction Battery Programme for the collection and recycling of high voltage batteries from all ATFs in the country. The aim of the programme is to minimise health and safety risks when a hybrid, electric or mild hybrid vehicle arises at an ATF and to ensure the resulting traction batteries are collected and recycled if necessary.



Under the programme any ATF can call ELVES for support if they accept a vehicle containing a traction battery. We will direct them to the relevant dismantling information and provide additional manufacturer support in the event that the vehicle and/or battery is potentially damaged.

The programme was rolled out to ATFs in early 2018.

8 Achieving Targets

Achieving targets is a complex affair. Producers are responsible for target attainment in the first instance. As the Regulations stand, if an ATF is not part of a producer's national collection network, each individual owner or operator of an ATF facility is obligated to meet the reuse, recycling and recovery targets for ELVs accepted at their facility. It starts when the vehicle is declared as waste at an ATF and a CoD issued. After depollution, if we assume that nearly all metallic components and materials are reused (through dismantling) or recycled (through shredding and smelting), there still remains a shortfall of non-metallic parts and materials per ELV that must be reused or recycled. This shortfall is quite a steep target to meet at an ATF, as the sale of non-metallic parts for reuse such as seats, parcel shelves, wing-mirrors, head-lights is unlikely to bring the ATFs achievement up to the required 85% reuse and recycling target.

Therefore, the shredding companies have to be relied on to further segregate their fragmented non-metallic parts and send these fractions for reprocessing into new materials and not to a Waste-to-Energy facility. With better technology and larger economies of scale, downstream reprocessors outside of Ireland can deliver better segregation of the shredded materials shipped to them, hence meeting the shortfall. However, this comes at a cost per tonne.

Should the ATF be part of the ELVES Network, then the responsibility to meet the targets rests with ELVES. As previously discussed, the ATFs in the ELVES Network carried out their reporting through the NWCPO AER system. We then received this information and were required to validate it. This process will be on-going throughout 2018, therefore the results given in this Annual Report are an interim determination of the ELVES Network and not the national situation. The EPA will make their national determination of 2017 target achievement in 2019.

Although we have to make various assumptions concerning the number of ELVs taken in by the Network, the dismantling activities of the ATF Network, and the efficiencies of our shredder process, we can make a determination of what the likely shortfall is going to be for our Network. We can then direct what quantity of non-metallic shredder residue should be sent for further reprocessing abroad. In 2017, we anticipate that we have met the target of reuse, recycling and recovery for our Network. Furthermore, we have stress-tested this by anticipating a much greater number of ELVs arising. The results are given, thus:

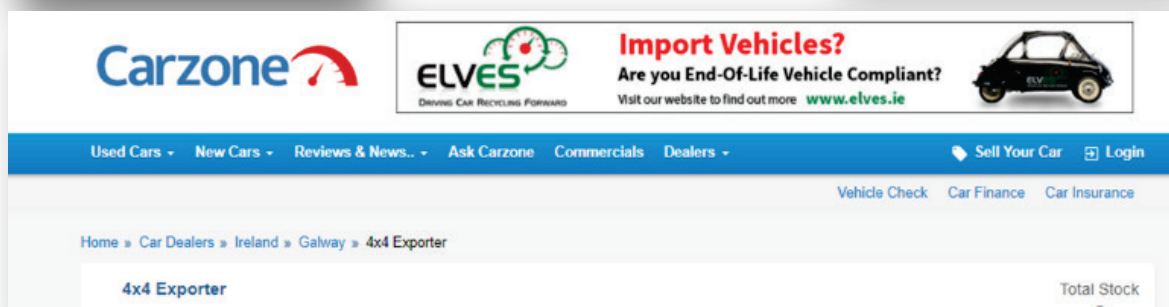
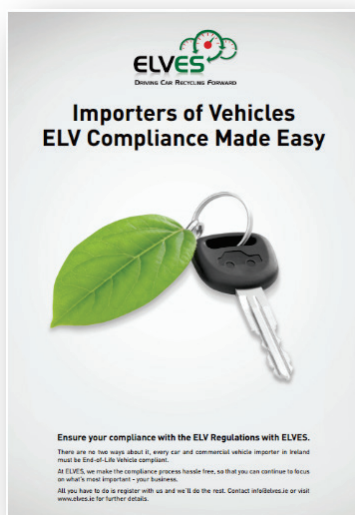
National ELVs arising (units)	ELVES Network target achievement 2017	
	Reuse & Recycling (%)	Reuse and Recovery ¹ (%)
150,000	87.41	95.73

¹ Definition of recovery under the Waste Framework Directive includes recycling.

9 Compliance Solution for Importers

ELVES is committed to providing an effective and simple compliance solution for the importing of vehicles. This can be a confusing area, as most of these businesses would be affiliated with selling a certain type of new brand from their forecourts, hence giving the impression of compliance. This is not the case, as the business is an independent company, licensed to sell a manufacturer's brand, but also importing used vehicles of any brand to satisfy a market demand. The used vehicle imported will one day become waste and need to be recycled. Furthermore, a retailers' responsibility for their products they supply does not end at the point of sale.

ELVES is able to undertake its activities through its funding by its producer members, businesses importing new or used vehicles. Through ELVES, manufacturers and importers are collectively funding a system and a network of scrapyards that will take the vehicle back on their behalf and will ensure that up to 95% of the vehicle is recycled and recovered. Throughout 2017, ELVES ran adverts targeted at vehicle importers to increase compliance awareness.



If you are reading this as an importer of used vehicles, you can find out more by visiting our website or giving Pat Kierans a call: +353 (0)87 151 9873, <https://www.elves.ie/information-for-motor-dealers>.

10 A Glossary of Acronyms

There are a lot of acronyms in this report, so here is an explanation, both colloquial and literal. We also thought of a game of who could make the longest sentence using our acronyms: as an example, “CoDs are issued for ELVs at ATFs”.

AER	A facility’s waste report (Annual Environmental Report)
ATF	Scrapyard (Authorised Treatment Facility)
CLG	New version of Ltd. (Company Limited by Guarantee)
CoD	Vehicle’s death cert (Certificate of Destruction)
eCoD	<i>the electronic/ online CoD</i>
DCCAE	Dept of Environment (Department of Communication, Climate Action and Environment)
DTTaS	Dept of Transport (Department of Transport, Tourism and Sport)
ELV	Scrap car (End-of-Life Vehicle)
ELVES	The ELV scheme (ELV Environmental Services CLG)
EPA	The Environmental Protection Agency
IDIS	Online dismantling information (International Dismantling Information System)
IMVRA	Irish Motor Vehicle Recyclers Association
NCT	National Car Test
NVDF	Vehicle registration office, Shannon (National Vehicle and Driver File)
NWCPO	National Waste Collection Permit Office



ELV ENVIRONMENTAL SERVICES CLG.
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