

WEEE IRELAND
ANNUAL ENVIRONMENTAL
REPORT TWENTY NINETEEN



A quality WEEE and Battery recycling system provides a safety net for developing a circular WEEconomy in Ireland and a more resource efficient future.

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CEO's Report



**Dear Ministers,
Members & Stakeholders**

The Year 2019

In 2019 Ireland was required to collect for recycling the equivalent in e-waste of 65% of the weight of the new electrical equipment placed on the market, on average over the three preceding years. This benchmark target is used to demonstrate whether a Member State has put in place the structure and system to effectively manage WEEE from households and businesses in a calendar year. WEEE Ireland can successfully report 38,594 tonnes of household and dual use (B2C) WEEE were collected for recycling by the Scheme, which equates to 65% takeback of our Members' market share. For batteries, the collection rate for portable Waste Batteries was 47%, in excess of the required 45% target. The quality of that collection and recycling activity was maintained, with successful achievement of all WEEE recovery and Waste Battery recycling efficiency targets as required by the EU Directives.

In 2019, we focused on health and safety measures, not only for WEEE Ireland activities but also for downstream collection and treatment operations. WEEE Ireland maintains a very detailed risk register and excellent procedure documentation which resulted in WEEE Ireland achieving ISO 9001:2015 and maintaining our ISO 14001:2015 NSAI standards. Furthermore, WEEE Ireland's contractors work to the CENELEC EN 50625 WEEE treatment standards.

This year WEEE Ireland celebrates 15 years of compliance service in Ireland. Our WEEE Scheme started in 2005 and in 2008 we extended that journey to deliver a Waste Battery Management Scheme for our Members. During a decade and a half of activity, WEEE Ireland has built its reputation as the Quality Scheme of choice for the vast majority of EEE and Battery Producers in Ireland. This annual report showcases the 2019 Scheme results on behalf of over 1100 industry Members. It also highlights the volume and scale of recycling, recovery, compliance, finance, and communication activities that our Extended Producer Responsibility (EPR) Scheme has achieved in Ireland, as required under the European Waste Framework Directive and transposing Regulations.

15 Years of WEEE Compliance

Members

To all our Members who have been with WEEE Ireland for the last 15 years and all those who have joined us along our journey, the Board and Management Team are very grateful for your continued support. We believe that WEEE Ireland can deliver a cost-effective compliance Scheme on your behalf, whilst striving for best in class, not only in Ireland but in Europe.

Pre WEEE

In 1998, I attended a Care Innovation conference in Vienna, where the seeds of WEEE Compliance were planted and many Universities throughout Europe carried out studies into the benefits of introducing a WEEE Directive at European level. In 2002, the Irish government formed a task force with all the appropriate stakeholders, and I was nominated by the Irish Waste Management Association (IWMA), which was affiliated with IBEC at the time, to represent the Recycling Industry. The task force visited the Netherlands, Sweden and Norway to review how best to implement WEEE Compliance in Ireland. In February 2005, the electronic trade associations WGA, CEDA and ICT, all associations within IBEC, appointed me as CEO of WEEE Ireland. I had a 100-day plan to get a national programme up and running and on August 13th 2005, we were headline news on the "News at One" on RTE, where we launched the WEEE Ireland Compliance Scheme to the Irish People.

The Board/Team

Any organisation is only as good as the people who run it and WEEE Ireland is no exception. We have had an active, experienced, and creative Board for the last 15 years, each bringing their own unique talent to the table while representing their industry sector or providing an independent view from outside the electronics world. One person who deserves a special mention is our Founding Chairman Kieran Whelan. As Chairperson of the White Goods Association (WGA) in IBEC at the time, he embraced the WEEE Directive and as Chairman of WEEE Ireland for 10 years, he guided the organisation through its development. While the Board gives the organisation guidance, it is the Management Team and Staff on the ground that deliver the process and we have had a loyal and dedicated workforce with us over the last 15 years. The mix of experience and qualifications from different disciplines has helped to deliver a very professional service. This was underlined to me when WEEE compliance in Ireland was recognised by the EU as being a best in class case study for small countries and WEEE Ireland was asked to present on our achievements in Brussels in 2017.

The Stakeholders

WEEE Ireland does not operate in isolation providing WEEE compliance in Ireland and in order to deliver world class compliance, we need the cooperation drive and professionalism of many stakeholders. These stakeholders can be broken down into two main categories, the Regulatory Stakeholders and the Operational Stakeholders.

The Regulatory Stakeholders

The Department of Communications, Climate Action and Environment (DCCAE) put a lot of effort into the original Directive and its transposition as a new Producer Responsibility Initiative (PRI) over 15 years ago; the original Task Force was very active and functional and that hard work early in the process sowed the seeds for the development of one of Europe's best systems. The then Minister was very supportive of the new Regulations and recognised the importance of the visible fee option to fund the historic liability of recycling EEE that existed in the market prior to 2005. The WEEE Register, now the Producer Register Limited, provided Producers who were concerned about reporting sales figures outside their organisation, with a remarkable level of confidentiality. The EPA initiated an effective enforcement programme, and in the first few months brought legal proceedings against non-compliant Producers/Retailers, ensuring early

compliance with the new Regulations. Local Authority Environmental Awareness and Enforcement Officers were very active on the ground spreading the news about WEEE recycling among the community and enforcing the Regulations at local level.

The Operational Stakeholders

From day one the Irish Retailers have embraced the WEEE Regulations, they have displayed visible fees, information to their customers and taken back WEEE from consumers. I am so grateful for the efforts and contribution that electrical Retailers in Ireland have made to the success of our Scheme. The Local Authorities have also been very supportive and put huge efforts into the roll out of the Regulations in 2005, by organising their recycling centres to welcome free takeback of WEEE. But most of all, a key aspect for WEEE Compliance working so smoothly over the past 15 years, is the professional service we receive from our Collection and Treatment partners. Collections have been undertaken safely and promptly, while WEEE has been treated to the highest CENELEC standards. I would like to congratulate Kurt Kyck of KMK Metals Recycling Ltd for celebrating 40 years in the recycling sector in Ireland and for his appointment as President of the European Electronic Recyclers Association (EERA).

WEEE in Europe

In 2005 WEEE Ireland was invited to join the WEEE Forum which at the time consisted of 8 other EU Compliance Schemes. I was then invited to join the Board later that year, made Vice President 6 months later and WEEE Ireland held the first WEEE Forum Conference in Dublin in 2006, opened by the Irish Minister for Environment. We welcomed over 150 delegates from the four corners of Europe for what was the start of a very successful journey for the WEEE Forum, where among other great achievements, was the introduction of the WEEELABEX/ CENELEC standards for WEEE treatment. I am currently a Director of WEEE Europe, where we provide pan-European compliance reporting/consulting on behalf of multinational companies.

The European Commission

The European Commission visited Ireland in 2017 in recognition of the excellent way that we have implemented and delivered on the WEEE Directive. I was then invited by the Commission to present at workshops at the Commission Offices in Brussels, and subsequently had the privilege of meeting with the Commissioner and my fellow colleagues in the WEEE Forum to discuss the future direction of WEEE compliance in Europe. WEEE Ireland has been in the driving seat of WEEE development throughout Europe over the past 15 years.

Achieving Targets

WEEE Ireland has maintained an excellent record of achieving targets for both WEEE and Waste Batteries throughout the past 15 years. Our initial target in 2005 was to collect 4 kg of WEEE per person. In 2006, we were already achieving 8kg and this grew to 10kg a few years later. In 2016, when the target changed to 45% take back of what was placed on the market, WEEE Ireland achieved well in excess of this, and in 2019 the bar was set even higher at 65% takeback. In 2018 and 2019 WEEE Ireland on behalf of its Members, achieved this 65% collection rate, one of the few compliance Schemes in Europe to meet this very challenging EU target.

The Future

WEEE Ireland is poised to deliver a new program to meet the challenges of the first and newly published second EU Circular Economy Action Plans, drawing on our experience of the last 15 years as one of the most successful Extended Producer Responsibility initiatives in Europe.

We now need to deliver a transformative Scheme to bring Producers and the e-waste sector in Ireland into the Circular Economy for the next 15 years. For 2020, the Board of Directors has set out a strategy that continues to draw on the core pillars of our key objectives while building for the future. This future will include more collection and recycling activities but also embed other activities from higher up the waste hierarchy into operations, including more waste prevention, repair and reuse activities, in line with the requirements of the Circular Economy.

Our compliance processes will incorporate the new Extended Producer Responsibility requirements set out by the EU Circular Economy Package within the amended Waste Framework Directive. Our Scheme will play its part on behalf of our industry Members supporting the industry's Trade Associations in the new Green Deal and the National Climate Action Plan; both of which place an emphasis on new societal and industrial programs embracing a more Circular and less wasteful economy.

A key objective of mine is that if WEEE compliance in Ireland is to be successful it must be sustainably funded. The single biggest financial instrument that supported this objective is the visible fee, and the continuation of the success of the Scheme over the next 15 years will require the continuation of a visible fee option. Where applicable, a modulated visible fee should be applied for Producers of electrical products whose efforts in Design for Recycling (DfR) and other environmental criteria are recognised.

The European Commission and the Green Deal will put a lot of focus on climate change initiatives and will drive higher collection targets for both WEEE and Batteries. The amended Waste Framework Directive will be transposed in Ireland by July 2020, pushing Producers to report on their activity higher up the waste hierarchy pyramid, increasing prevention of waste, by focusing on reparability and reusability of products before they become WEEE. WEEE Ireland along with The White Goods Association (IBEC) as a founding Member of CIRCULÉIRE, the IMR industry Circular Economy Platform, are working on solutions for the industry in this area. The European Commission is currently reviewing the Battery Directive and we can expect some fundamental changes in battery compliance targets in the near future, especially as the industry migrates towards longer lasting lithium batteries and households and business increase their use of batteries across devices, energy storage and mobility.

I once again would like to thank our Producer Members for your loyalty to WEEE Ireland, for all the support and co-operation we have received from the other stakeholders, my Board for the excellent direction they have given me, and all the team in WEEE Ireland for operating one of Europe's finest WEEE and Battery Compliance Scheme over the past 15 years.

Leo Donovan
Chief Executive
WEEE Ireland

Letter from the Chairman

Dear Members,

On behalf of the Board of Directors I have the pleasure of again forewording the 2019 Annual Environmental Report of the WEEE Ireland Scheme, celebrating 15 years of achievements since it began takeback operations in 2005.

The Scheme Approval put in place during that year and now in its 3rd iteration – the 2017-2022 version, sets out the requirements placed on WEEE Ireland in meeting its collective responsibilities on behalf of its Members. The Board of WEEE Ireland is responsible for overseeing the maintenance of this Approval and the Corporate Governance of the Scheme, ensuring sectors are appropriately represented and there is independent validation of the Scheme activities.

These 15 year celebrations will however be muted in 2020 due to the sombre and unprecedented situation that Ireland and indeed every European Member State is operating in.

As I write Ireland is preparing its plan to reopen the country on a phased basis. The destructive nature of COVID-19 has taken its toll on many individuals and their families and we send our condolences to those in our sector personally bereaved by the virus. This personal loss is compounded by the challenges the economy is now facing and the electrical sector has not been immune. The Board of WEEE Ireland is carefully monitoring the economic situation and its impact on the Company's operations, and is responding appropriately by reviewing WEEE Ireland's cost base and overheads.

Throughout 2019 CEO Leo Donovan and I met with the new Department Officials appointed by the Minister to manage the Producer Responsibility brief of his Department and discussed aspects of WEEE Ireland activity required under the Scheme Approval. I welcome the appointment of Philip Nugent as Waste Policy Assistant Secretary and assure him that the WEEE Ireland Directors and Management team will work with him and his colleagues to deliver a robust WEEE and Battery system through 2020 and beyond.

In May 2019, the Board of Directors held a strategy review meeting where we incorporated a new pillar into the Schemes objectives which involved "Steering



WEEE Ireland into the Future". While many aspects of the industry sector are uncertain for 2020, the DCCAE are continuing to build the legislative transposition framework for a Circular Economy and a new National Waste Policy. We are committed in WEEE Ireland to working with the DCCAE and Irish stakeholders to continue to develop the best in class Compliance Scheme to meet the requirements of the new Circular Economy Action Plan and European Green Deal. This must be done in a way which will support sustainable growth as well as transformation, to aid recovery in the sector for our Members in months and years ahead.

I thank the Members for their continued support of WEEE Ireland; the country's largest WEEE and Battery Scheme, over the last 15 years, and will continue with my fellow Directors and the support of the Management Team to steer the best in class cost effective operation of your Compliance Scheme in the year ahead.

Declan Moylan
Chairman
WEEE Ireland Board of Directors

“**Prevention and dealing with e-waste will be part and parcel of our coming work. This means recycling all our electronic waste where it cannot be avoided. But it also means rethinking the value chain for electronic goods. It means considering their appropriateness for reuse or recycling from conception. It means even going beyond and prioritising de-materialisation and closed loop systems.**”

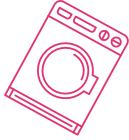
Karmenu Vella International E-waste Week 2019

Since 2005 WEEE Ireland has diverted an estimated
156 million pieces of e-waste from landfill¹

This is the equivalent of...



1.2 million
Fridges &
Freezers



6 million
Large
Household
Appliances



108 million
Small
WEEE



4 million
Televisions
& Monitors



37 million
Lamps²



That's
34
pieces of
WEEE for
everyone
in Ireland
today!

Over

400,000

tonnes of WEEE collected for recycling since we opened our doors in August 2005



Saving

2,451,710

tonnes of CO₂-equivalent by diverting this WEEE from landfill³

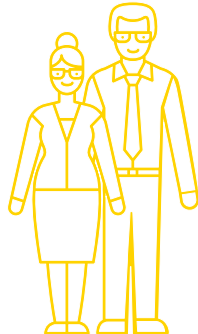
We now represent

Over 1100

Producer Members and have established a network with our partners of over

6,000

collection points taking back WEEE/Batteries and/or Waste Lighting



Since the introduction of the Battery Directive in late 2008, WEEE Ireland has collected and recycled the equivalent of

320 million

AA batteries - that's 5 times around the coast of Ireland when laid end to end.



More than

2,500 schools

have taken the WEEEPledge

Our WEEE Pledge and Small Things Matter Campaigns have contributed over

€440,000

in support of the children and families cared for by LauraLynn, Ireland's Children's Hospice



LauraLynn
IRELAND'S CHILDREN'S HOSPICE

5 Recycling Facilities

on the Island of Ireland were certified to the WEEELABEX and/or equivalent EN 50625 CENELEC standard by 2019

We are

2nd in Europe

benchmarking year on year WEEE Scheme B2C takeback rates⁴

To all who have joined, supported, collected, recycled, recovered and participated in every way with WEEE Ireland Compliance Scheme in the past 15 years...

WEEE THANK YOU!

¹ WEEE Ireland collects and measures in tonnes but estimated units are calculated based on 'Placed on the Market' (POM) Blackbox reported data and sampling information from WEEE recycling facilities.

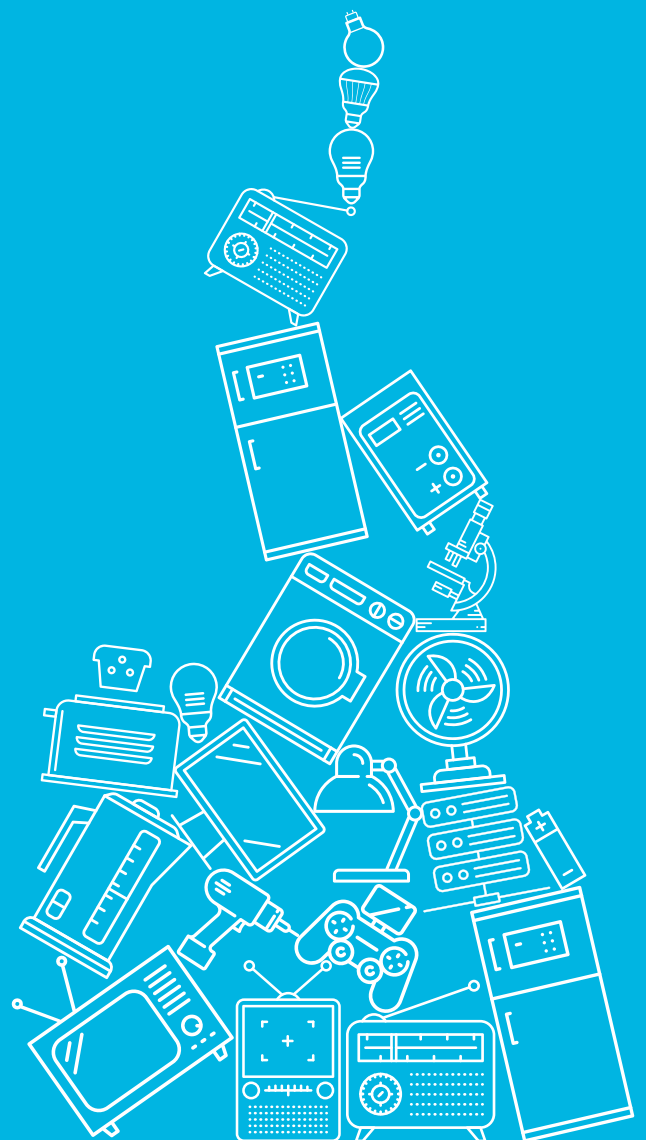
² Gas discharge lightbulbs including energy saving compact and longer fluorescent tubes.

³ Calculated using the WEEE Forum Working Group CO₂ tool with WEEE Ireland 15-year data. <https://weee-forum.org/co2calculation/>

⁴ WEEE Forum Key Figure 2018 <https://weee-forum.org/key-figures/>

Results

2019 in Numbers



WEEE Collection Results

WEEE Targets

2019 was a target year. Under Directive 2012/19/EU Ireland was required to demonstrate an effective WEEE system was in place benchmarked by a target to achieve of 65% of all e-waste collected for recycling and recovery, compared to the average total weight of new appliances placed on the market across the previous 3 years.

WEEE Ireland achieved our Members’ share of this national target for WEEE in the Republic of Ireland –

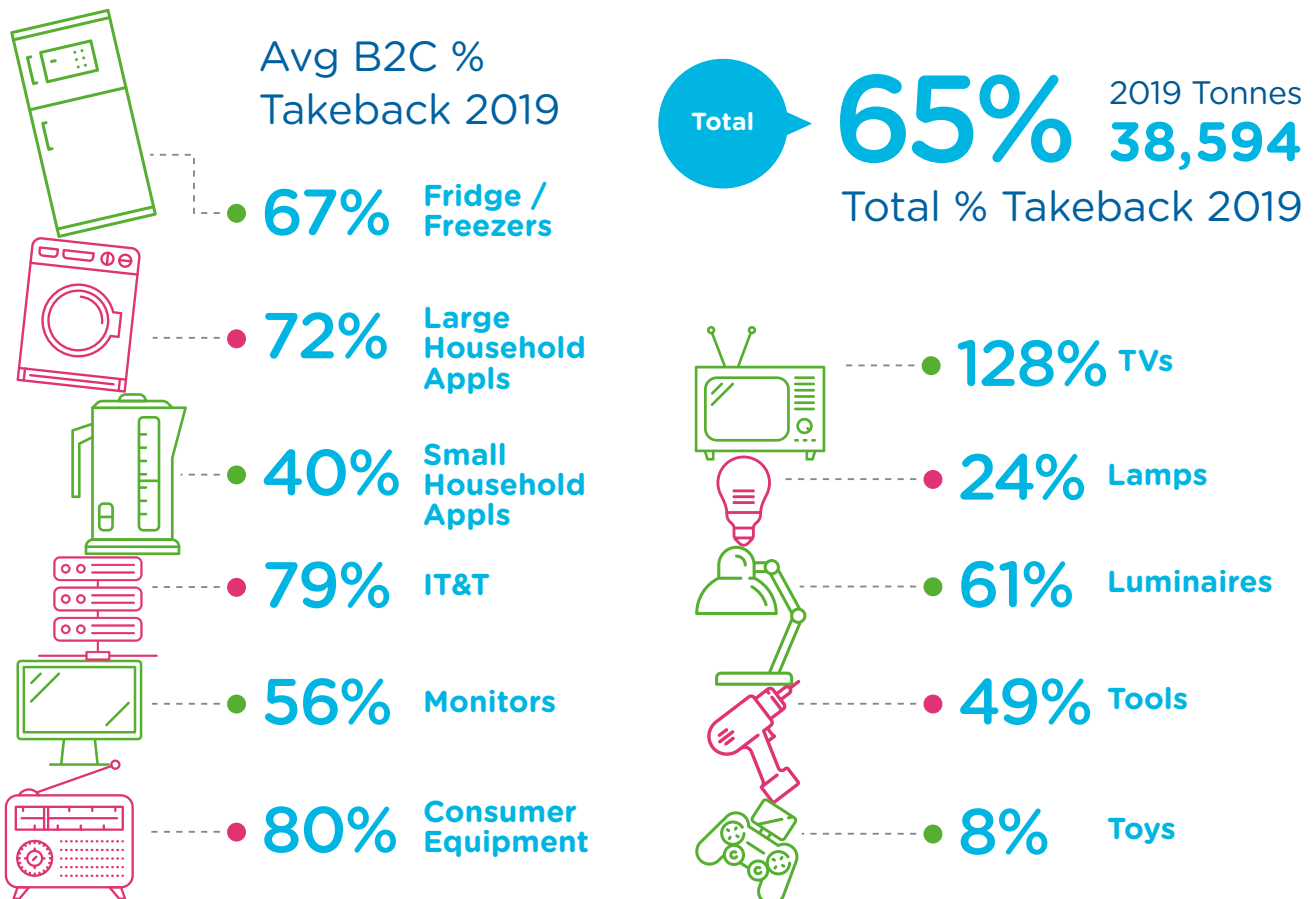
38,594 tonnes

of WEEE were collected by WEEE Ireland for recycling in 2019.

This represents 65% of household and dual use (B2C) EEE placed on the market by WEEE Ireland Members equating to an average of 10.89kg per person in the Scheme’s designated collection area.⁵

“From 2019, the minimum collection rate to be achieved annually shall be 65% of the average weight of EEE placed on the market by its Members in the three preceding years or alternatively 85% of WEEE generated in Ireland by its Members...”

WEEE Ireland Scheme Approval 2017-2022 DCCAE



⁵ Population within WEEE Ireland Collection area based on 2016 Census www.CSO.ie (3542932)

Benchmark & Breakdown of the Targets

As the largest Scheme for collection of household and dual use e-waste in the Irish marketplace, WEEE Ireland accounts for over two thirds of national WEEE collection activity. Ireland is a competitive marketplace with other Approved Bodies and B2B self-compliance options in operation. Achievement of 65% takeback rates for Ireland across this national system requires all other operators in both the household and professional WEEE sector to play their part.



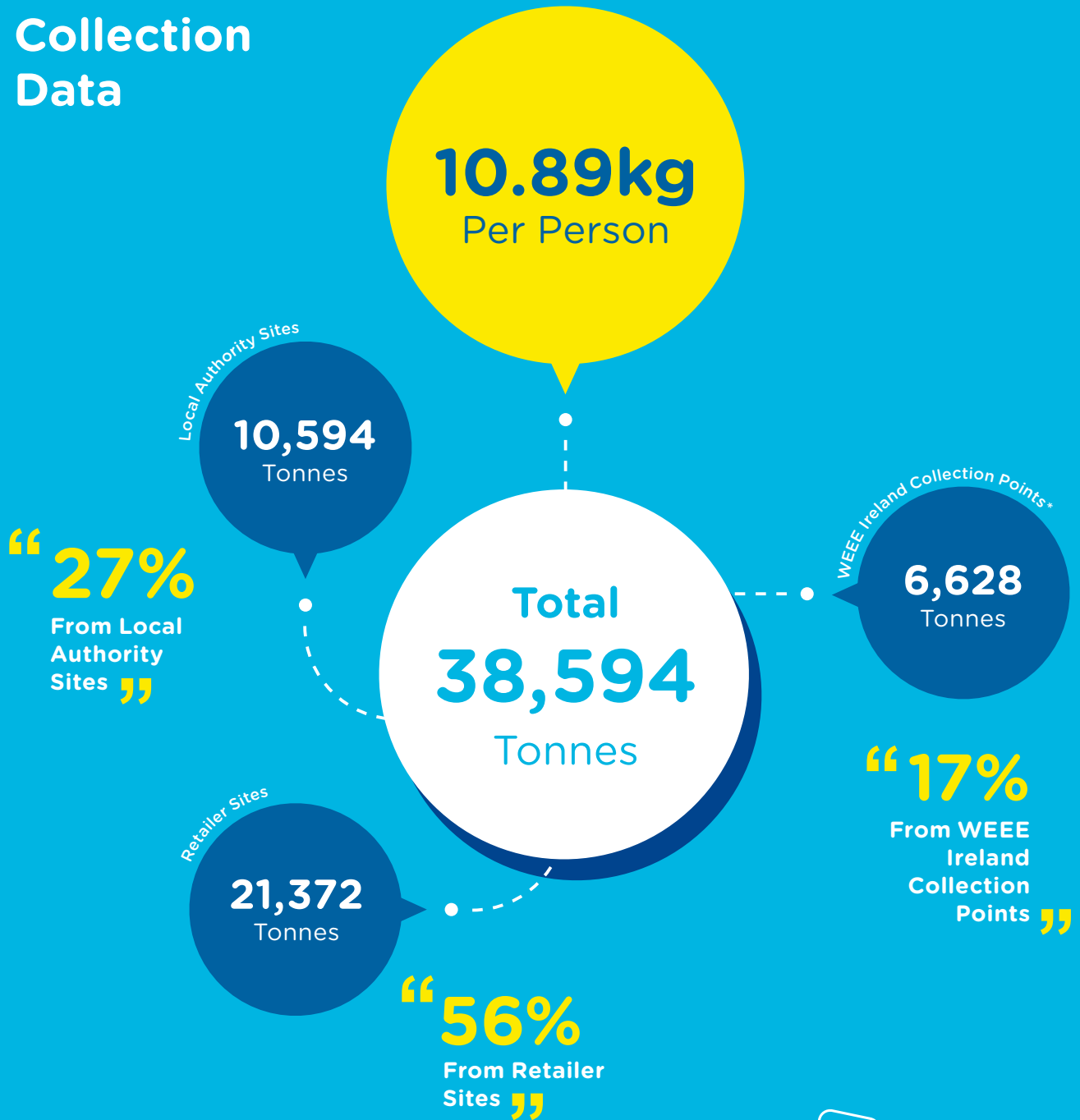
“ The most recently published national data available gives Ireland **51% WEEE recycling rate** for 2017 activity⁶. ”

How to achieve 65% WEEE takeback at a national level?



⁶ <https://www.epa.ie/nationalwastestatistics/WEEE/>

WEEE Ireland Collection Data



*Includes Education sites, Public Collection Events, Waste Industry and Workplace collection points.

WEEE Collection Points

WEEE Ireland coordinates collections of waste electrical and electronic equipment via three core channels: Retailers, Civic Amenity Sites and other WEEE Ireland Collection Points.

- For the fifth year in succession there has been an increase in the weight of WEEE collected from Retailer collection points with an over 1,000 tonne increase from 2018 to 2019
- 17% of WEEE was taken back through special events including public collection days, along with WEEE collected through waste industry partners, workplace events and through the education sector
- WEEE Ireland collected 10,594 tonnes of WEEE from Civic Amenity Sites

“Accessibility, visibility and service are essential components in the attainment of increased targets both at national and EU level”

*WEEE Ireland Scheme Approval 2017-2022
DCCA*

WEEE made **16,891 collections of 8,020 truckloads from 2,716 individual sites** in our designated area in 2019.

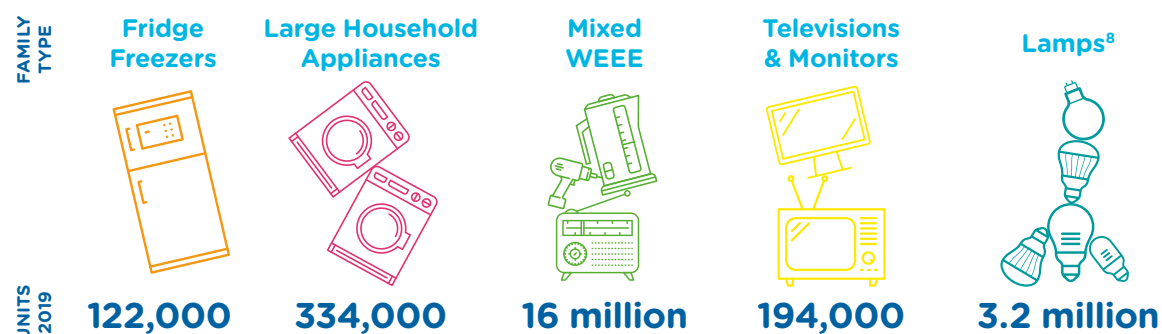
Collection per Category 2019 Open Scope & New Categories

2019 was the year 6 new categories of EEE and WEEE for reporting were implemented under the Open Scope phase of Directive 2012/EU/19.

Category	2019 Tonnes	2019 % Tonnes
Temperature Exchange Equipment	6,396	17%
Screens	3,770	10%
Lamps	431	1%
Large Appliances	22,361	58%
Small Appliances	4,817	12%
Small IT&T Equipment	819	2%
Total	38,594	100%

WEEE Collections Units Per Family

WEEE is processed in ‘family,’ groups defined by the specific recycling and recovery processes that the e-waste undergoes. An estimated 19million+ WEEE appliances⁷ were collected for recycling by WEEE Ireland in 2019 including



⁷ WEEE Ireland collects and measures in tonnes but estimated units are calculated based on 'Placed on the Market' (POM) Blackbox reported data and sampling information from WEEE recycling facilities.
⁸ Gas discharge lightbulbs including energy saving compact and longer fluorescent tubes.

KMK Metals Recycling Celebrating 40 Years in Business



Founded in 1979, WEEE Ireland's expert recycling partners, KMK Metals Recycling, Ireland's leading recycler of waste electrical and electronic equipment (WEEE) celebrated 40 years in business in 2019.

Operating out of two state-of-the-art facilities in Tullamore and Kilbeggan, KMK employs over 100 people from the local area. The company located to Tullamore in 1985 with the establishment of a metals recycling facility in the Cappincur Industrial Estate, employing six people at first. Company founder, Kurt Kyck, was born in Tullamore and recognised the ideal business location the midlands town presented.

KMK has the capacity and capability to recycle Ireland's electrical appliances and batteries to the highest standards of compliance (through the implementation of the WEEELABEX/EN 50625 series treatment standards), environmental management, quality, and health and safety. The company recycles 75% of Ireland's electrical waste, transforming waste appliances into base metals, plastics and components, ready to be recycled into raw materials.

KMK Metals Recycling also developed a commemorative company logo, designed by Dotser, to mark their 40th anniversary.



Managing Director of KMK Metals Recycling, Kurt Kyck, "It's hard to believe we are already 40 years in business and I would like to pay tribute to the fantastic workforce we have built up over the years and the local contractors like Ravenhill Couriers and Hyland Haulage, that have helped us along the way. We have always strived to achieve the highest standards and levels of compliance across all elements of our organisation and we have developed a successful business model as a result. I have no doubt that we will continue to expand and create more local jobs in the future."

EERA Presidency

In October, Managing Director Kurt Kyck was also announced as the new president of the European Electronics Recyclers Association (EERA).

EERA is a professional association for reuse, recycling and reprocessing companies dealing with Waste Electrical and Electronic Equipment (WEEE) in Europe and Kurt has been an active board Member of EERA for six years.

President of EERA, Mr. Kurt Kyck "It is my great pleasure to be elected to this prestigious position and I look forward to progressing EERA's aim to create a circular economy where electrical and electronic waste is managed as a resource and is returned to the economy as equipment for reuse or as a raw material. We will also press ahead with the organisation's vision that the WEEE industry should operate on a level playing field with mandatory European Treatment Standards."

Lida Stengs, Executive Secretary of EERA "It is our pleasure to welcome Kurt as the new president of EERA and express our thanks to outgoing president Rasmus Bergstrom. Kurt has expressed that he is willing to contribute to our valuable association and that new fresh ideas will be welcomed."

Battery Collection Results

886 tonnes

of waste portable batteries were collected by WEEE Ireland in 2019.

In 2019 WEEE Ireland achieved a

47%

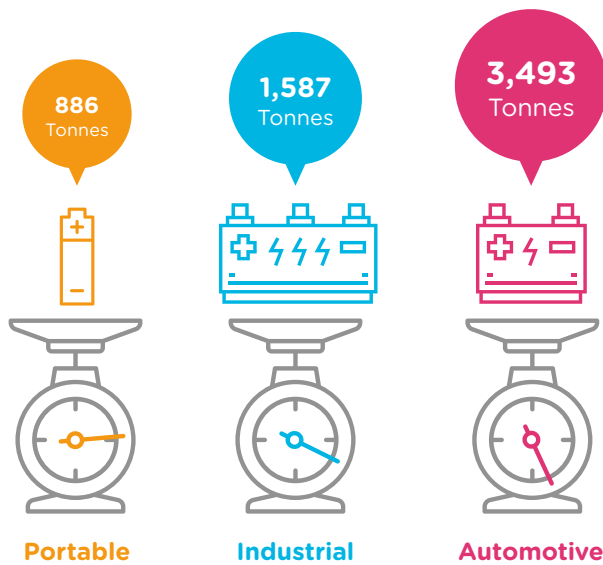
waste portable battery collection rate on behalf of Members, once again surpassing the EU target of 45%.⁹

“WEEE Ireland is required to maintain, subject to any amendments to the Directive’s collection target, a minimum collection rate of 45% by weight of the portable batteries placed on the market by its Members by December 2017 for the duration of this Approval”

WEEE Ireland Scheme Approval 2017-2022 DCCA



Collections by Battery Type



“ WEEE Ireland is the only Scheme in Ireland to offer Compliance and take back solutions to all Battery Producers – Portable, Industrial and Automotive ”

In 2019 WEEE Ireland continued to develop its solutions for end of life electric vehicle batteries (EV) and other Long Life Lithium Batteries (LLLB) which will arise in growing numbers at collection points in the future as they power Ireland’s transition from fossil fuel sourced energy and mobility solutions.

More Than AA

Batteries are reported onto the market in Ireland by weight according to type but also chemistry. Different chemistries have different properties which allow Batteries to be used in many applications to support energy and transport needs. Waste Batteries are collected and then separated by chemistry type by WEEE Ireland contractors KMK Metals Recycling Ltd, to allow appropriate packaging and labelling for shipment to dedicated facilities in Europe. This enables recovery of the resources they contain in the most efficient way.

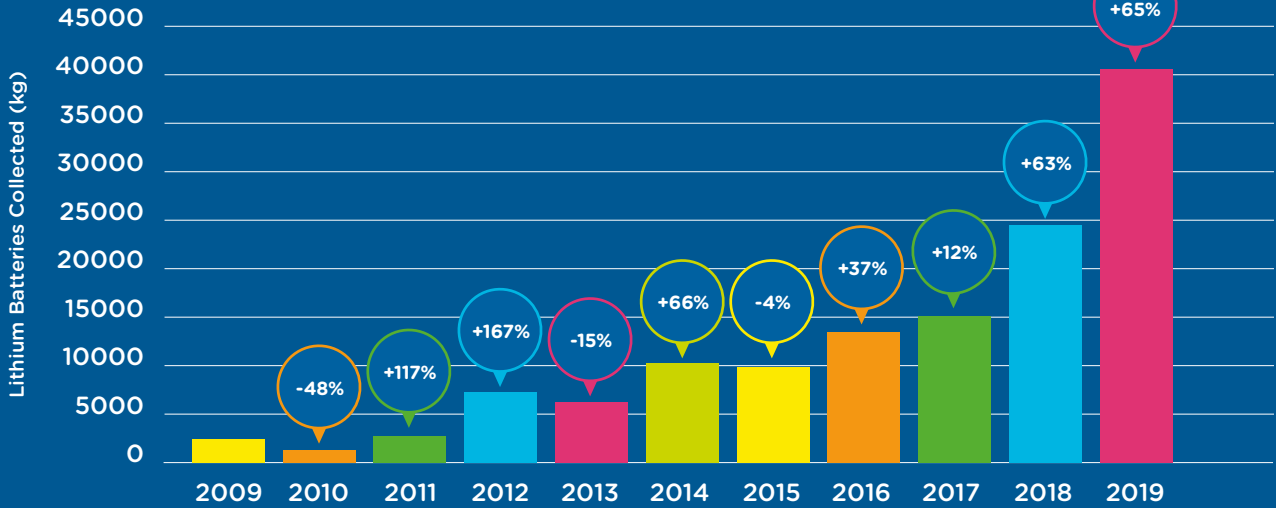
Only portable Waste Batteries have a collection rate target defined in the 2006 Batteries Directive although this is likely to change under the planned Recast Battery Directive in 2020/2021. WEEE Ireland also manages a national programme for the Industrial and Automotive Battery sector.

Waste Automotive batteries - are taken back by a panel of Scheme approved collectors, who in turn are reviewed by WEEE Ireland to validate the TFS export for recycling and recovery of this waste stream.

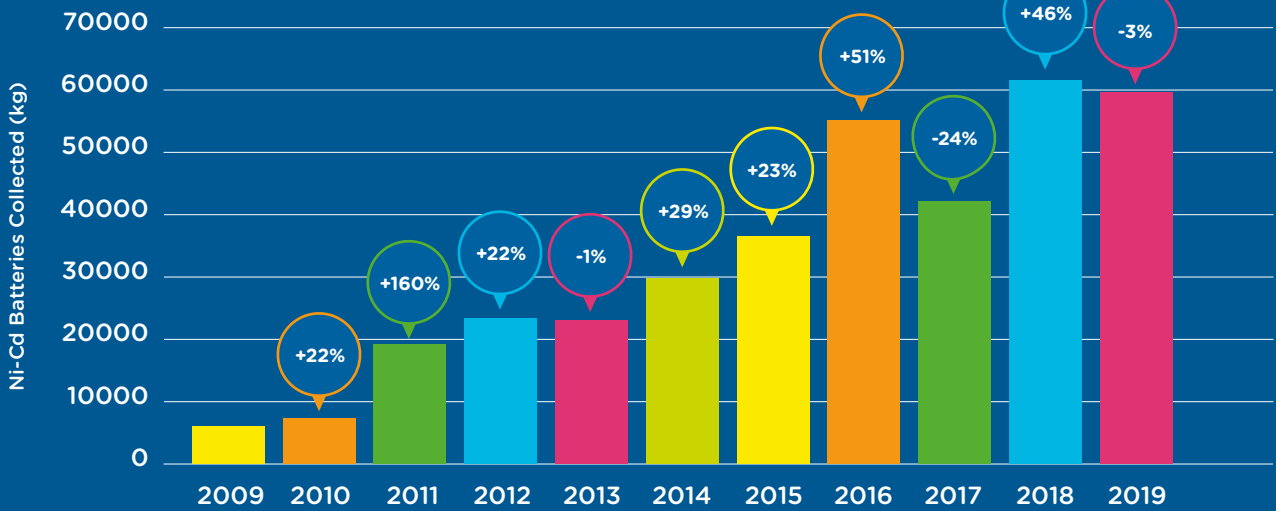
Waste Industrial batteries can arise from numerous sources including farm fence batteries taken back at Co-ops and collection days, waste UPS batteries from the tech sector, lead acid Waste Batteries from forklifts and other traction batteries.

⁹ The collection rate is calculated on the basis of the total weight of portable waste batteries (PWB) collecting in the respective year expressed as a percentage of the average weight of portable batteries placed on the market (POM) in the respective year and two preceding years: $\text{Collection rate } y_i = \frac{\text{PWB collected } y_i}{(\text{POM } y_i + \text{POM } y_{i-1} + \text{POM } y_{i-2})} \times 100$

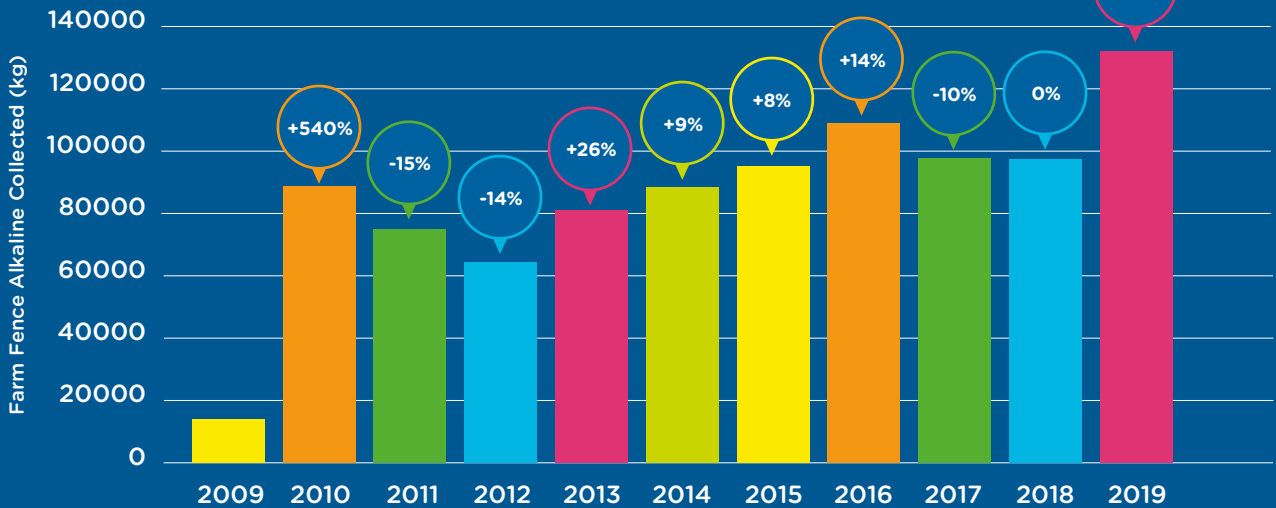
Lithium Batteries Collected 2009-2019 (kg)



Ni-Cd Batteries Collected 2009-2019 (kg)



Farm Fence Alkaline Batteries Collected 2009-2019 (kg)



Newsread

Newsread is Ireland's leading wholesaler/distributor of indigenous newspapers and magazines delivering new and collecting old product for recycling from this retail sector. They are one of Ireland's leading distribution and logistics companies, with a fleet of over 400 trucks and vans covering up to 60,000 kms, delivering to over 6,000 Retailers nationwide across Ireland, 364 days a year.

WEEE Ireland has worked in partnership with Newsread since 2015 to distribute our Blue Battery Boxes and in turn collect full boxes of Waste Batteries. With their extensive network direct to and from key newsagents and convenience stores, a partnership with Newsread has allowed WEEE Ireland to minimise its environmental impact by connecting into an existing reverse logistics infrastructure.

In turn Newsread provide an accessible and user-friendly process that allows Retailers to request a collection or delivery by phone or online. This facilitates a take back network for small shops that need to meet their legislative requirement in offering take back on batteries sold.



Play your Part... join in for LauraLynn!

RECYCLE
FOR
GOOD

Ireland's Biggest Battery Recycling Drive for LauraLynn,
Ireland's Children's Hospice. Every battery counts!

There's a **HUGE** radio and press campaign driving shoppers to recycle batteries at their local shop. **Order your FREE blue WEEE Ireland battery boxes through your Newsread account or via WEEE Ireland on 1890 253 252**

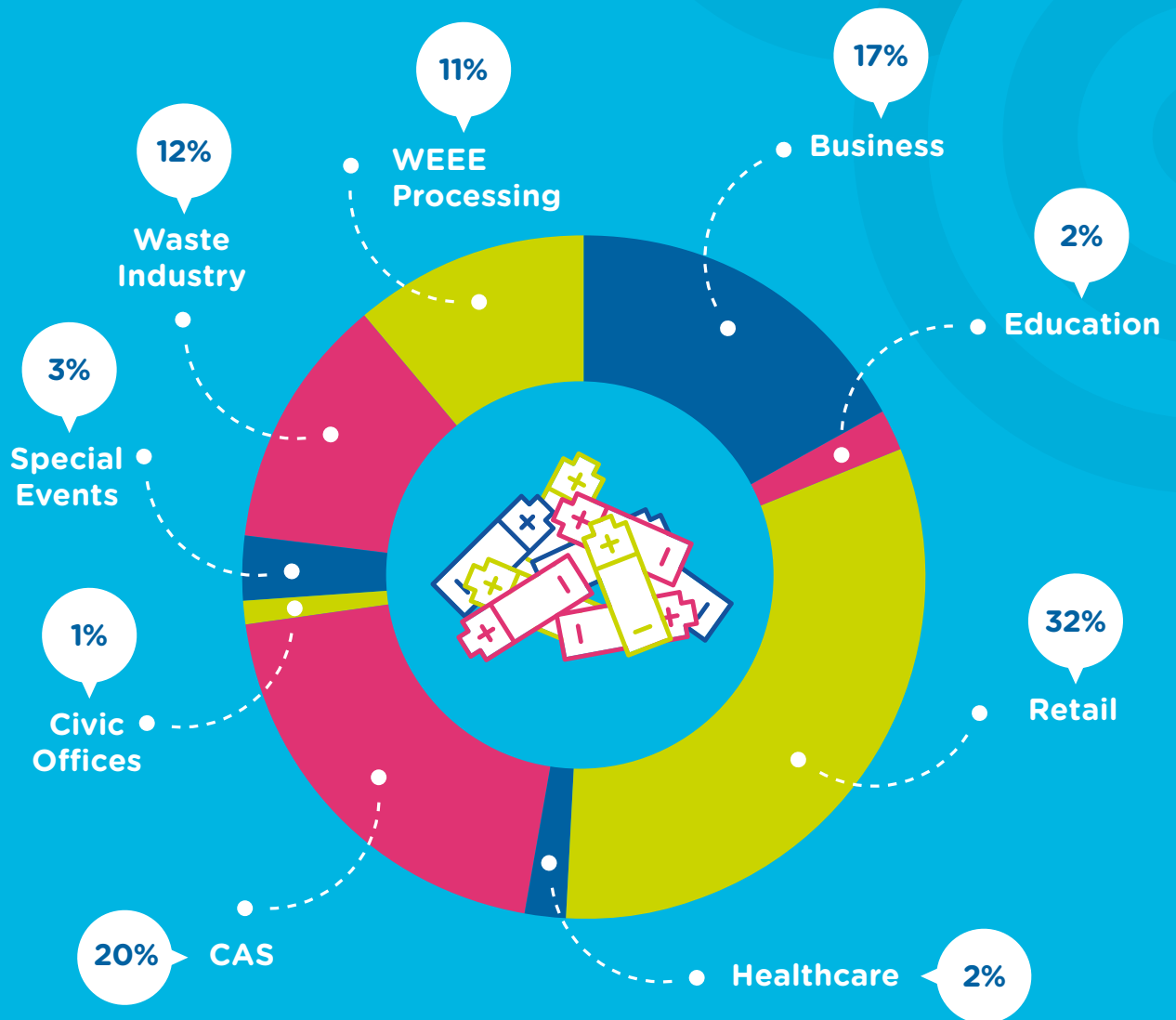


www.weeeireland.ie

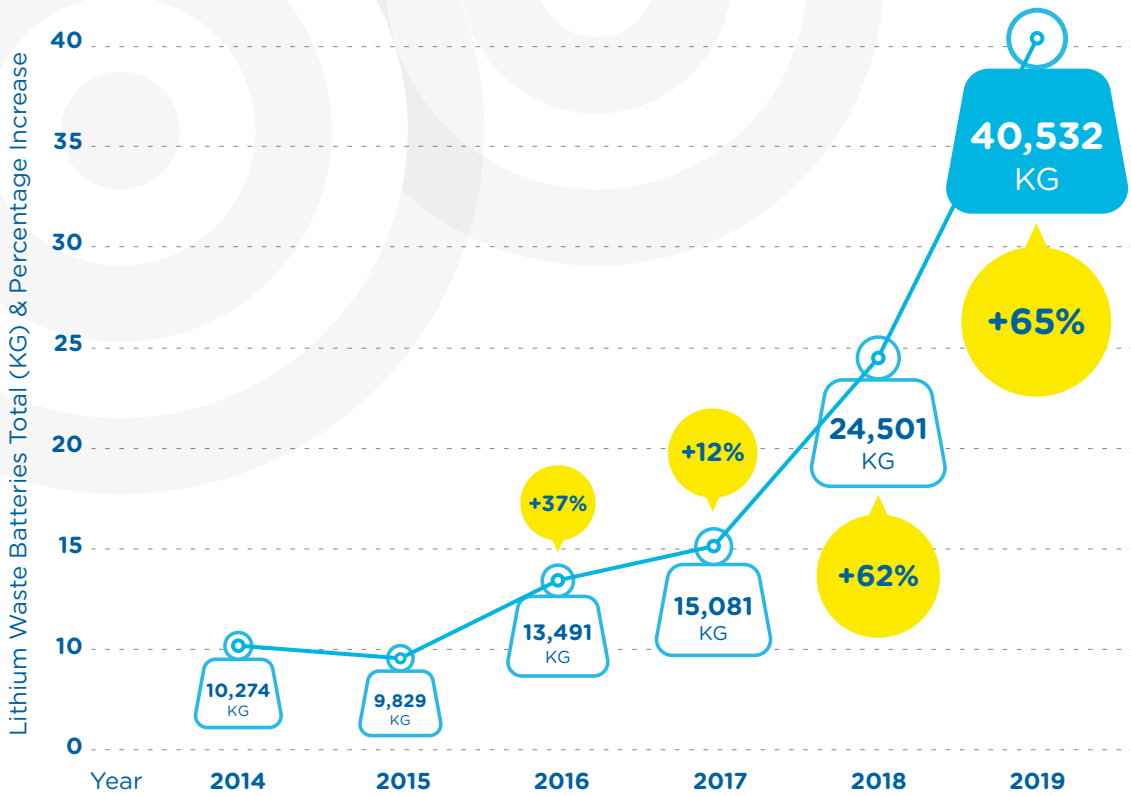
Retailers selling batteries are obliged to take back similar waste portable batteries for recycling, free of charge. WEEE Ireland provide **FREE** battery storage boxes to collect them in and once full these can be returned with your Newsread collections. Retailers must also display the statutory notice which is available to download from www.weeeireland.ie The WEEE Ireland battery recycling scheme is operational throughout the Republic of Ireland excluding the following county council areas: Cavan, Monaghan, Louth, Meath, Clare, Kerry, Limerick and Fingal County Councils.

#RecycleforGood Find us on  

Portable Battery Collection Point Data



Lithium Future Focus



Batteries from WEEE: Best Practice

“ Since 2014, the KMK Mixed WEEE recycling facility in Tullamore has recovered over 250 tonnes (the equivalent of over 12 million AA batteries) of waste portable batteries that would otherwise be lost from national Waste Battery statistics. ”

Mixed WEEE Processing



Line of Sight

WEEE Ireland Merchandisers and take back partners carried out over 15,000 collections in 2019 around Ireland, transferring to KMK Metals Specialist Battery sorting facility in Tullamore County Offaly.

At their licensed facility KMK Metals Recycling sort Waste Batteries by chemistry for proper classification, notification, packaging and labelling prior to shipment.

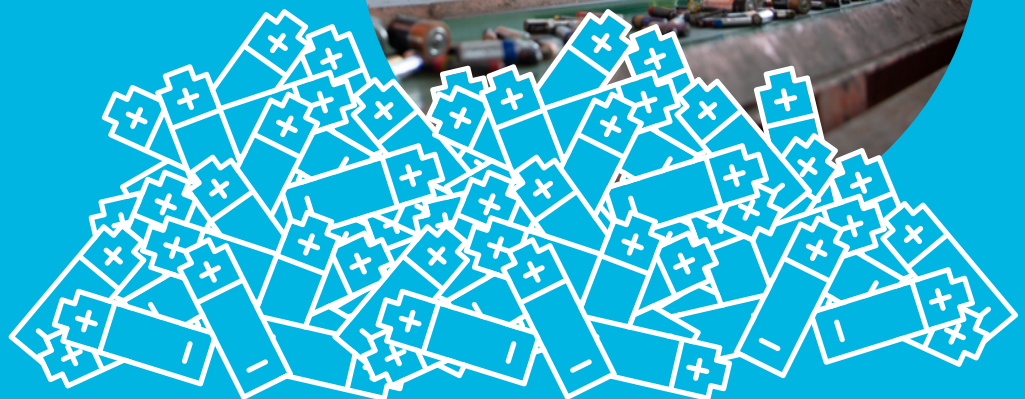
WEEE Ireland also works with a panel of Lead Acid Battery Collectors and Exporters to collate information on waste automotive, industrial and portable batteries collected for recycling at collection points nationwide.

All exports by WEEE Ireland collection and recycling partners can be validated against NTFSO¹⁰ records to confirm their authorised shipment to dedicated European Waste Battery Recycling facilities.

Final processing and recovery operations are carried out at specialist plants in UK, Germany, Portugal and Belgium.

Transparent reporting of downstream recovery of WEEE Ireland Waste Batteries is provided to the DCCAIE each year in a Battery Recycling Efficiency report as required under the Scheme Approval and Battery Regulations.

15,000+
Collections
Fulfilled
around Ireland



Powering Up Battery Safety



The WEEE Ireland team joined KMK Metals Recycling, in May for two days of battery recycling management best practice sessions with Johan van Peperzeel, a Dutch battery expert of global renown, at KMK's industry leading WEEELABEX certified treatment facility in Tullamore, Co. Offaly.

Johan Van Peperzeel is a veteran of portable Waste Battery and lead acid car battery management and is the managing director of Van Peperzeel and Van Peperzeel Services, a large-scale Waste Battery sorting plant, which has operated in the Netherlands for the past two decades. He brought industry-leading expertise with him to Ireland, and came equipped with vast experience on safety, sorting and handling portable, industrial and automotive batteries.

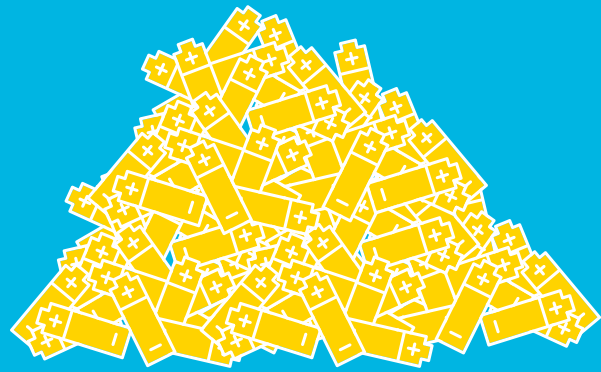
The two-day schedule included a tour of KMK's specialist treatment facilities, knowledge sharing sessions on incident analyses with Li-ion and lithium batteries, and instructions on emerging developments for risk and safety as they relate to tech, e-bike, PEH and EV batteries. These sessions were a continuation of Johan's previous visits to consult with WEEE Ireland and KMK Metals on the rollout of the Irish Waste Battery sorting system in 2008.

WEEE Ireland has worked in partnership with KMK to be the centre of excellence for the management of e-waste and batteries since 2005. As Ireland's largest WEEE Scheme representing over 1,000 market leaders in the electrical industry, the Scheme's track record is one of best in class compliance solutions. Quality Waste Battery management supports extended Producer responsibility in the transition to a resource efficient and more circular economy. This requires continual professional and technical development, working with global experts like Johan van Peperzeel, as part of WEEE Ireland's ongoing strategy to future proof and innovate the Scheme.

Kurt Kyck, Chief Executive of KMK Metals Recycling, said: *"The inclusion of lithium batteries in so many consumer devices creates new challenges for WEEE recycling at end of life in Ireland. The benefits of new technologies to power our lives or businesses has to be balanced against the cost and ability to recycle and recover when they become waste. For KMK Metals Recycling, having Mr Johan van Peperzeel, an international expert on this topic, working with us supports our continued development as leading Irish operators and innovators in Waste Battery environmental and safety management".*

Resource Recovery Results

WEEE Ireland tracks the management of WEEE and Battery waste through recycling and measures the quality of this process. This is then benchmarked as recovery and recycling efficiency rates. WEEE Ireland continues to meet and exceed the high recovery targets required by the WEEE and Battery Directives on each category of WEEE and Waste Batteries.



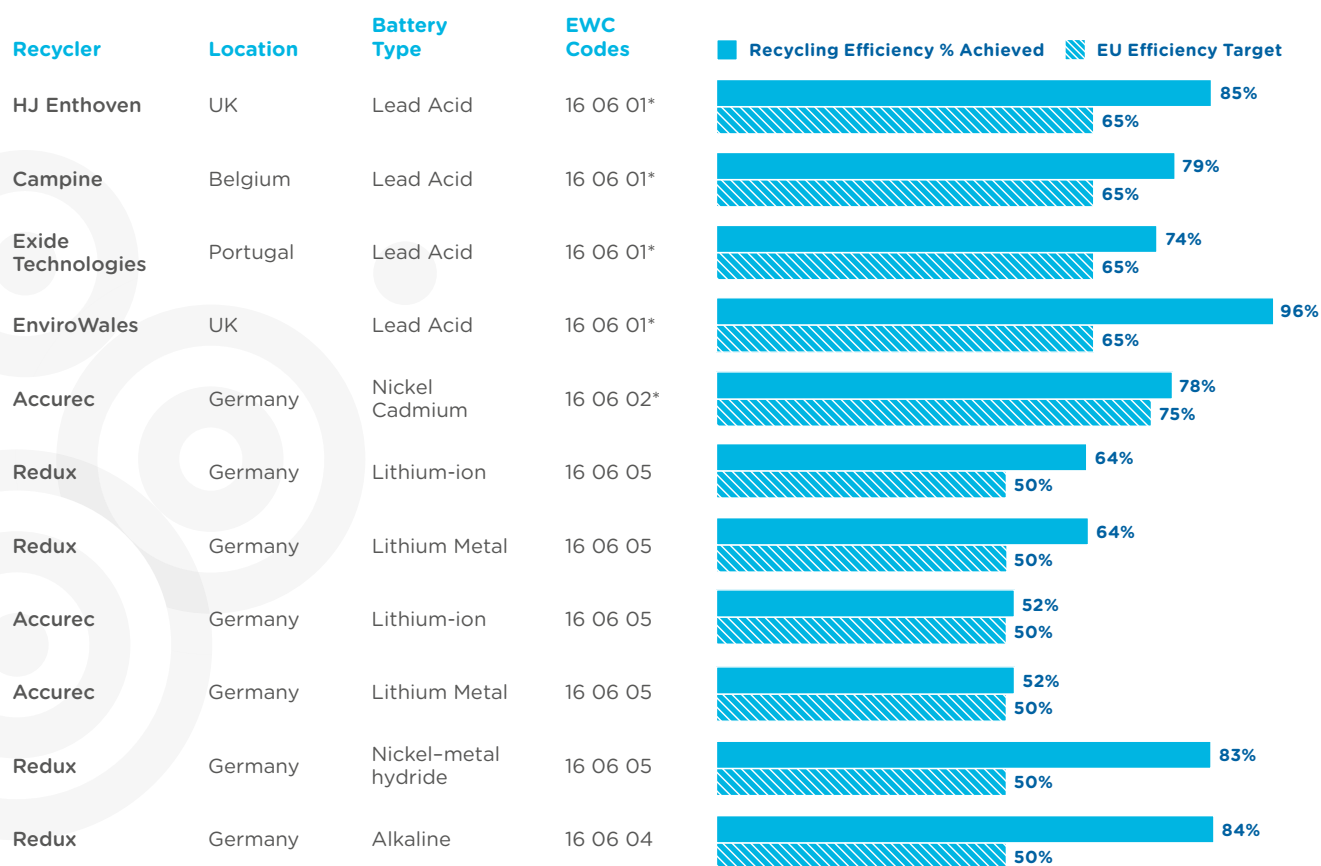
WEEE Ireland Battery Recycling Efficiency Report 2019

WEEE Ireland shall achieve the target for recycling efficiencies as set out in Annex III of Directive 2006/66/EC. The method for calculating these recycling targets is set out in Commission Regulation (EU) No. 493/2012. Annex IV to VI of this regulation sets out the reports that must be completed on the efficiencies achieved. These reports shall be returned to the Department not more than 5 months after the end of the calendar year concerned.
WEEE Ireland Scheme Approval 2017-2022 DCCA E









WEEE Ireland shall ensure that all shipments of Waste Batteries for treatment abroad are carried out under appropriate Transfrontier Shipment (TFS) of waste and the International Maritime Dangerous Goods Code requirements.
WEEE Ireland Scheme Approval 2017-2022 DCCA E

WEEE Ireland Battery Recycling Efficiencies 2019



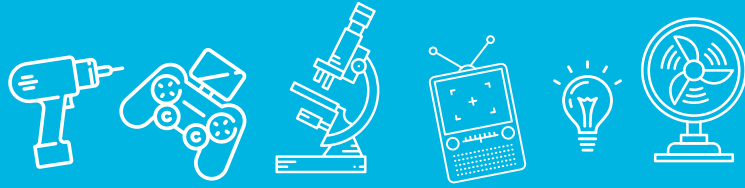
WEEE Ireland WEEE Recovery Rates 2019

WEEE Ireland component material recovery performance again exceeds the required target in all categories supporting resource efficiency and circularity in the WEEE sector. An average of 82% of material across the Scheme's WEEE activity was recovered for use again in manufacturing.

Category	1	2	3	4	5	6
Description	Temperature Exchange Equipment 	Screens 	Lamps 	Large Equipment 	Small Equipment 	Small IT&T 
EU Target Component Material Recycling & Reuse	80%	70%	80%	80%	55%	55%
WEEE Ireland Component Material Recycling & Reuse	89%	80%	82%	82%	73%	82%
EU Target Recovery Rate	85%	80%	N/A	85%	75%	75%
WEEE Ireland Recovery Rate	99%	95%	88%	89%	88%	92%

Overall, 82% of material was recycled and a 91% recovery rate achieved

EN WEEE standards



“Having different national policies on the management of WEEE hampers the effectiveness of recycling policies. For that reason, the essential criteria should be laid down at the level of the Union and minimum standards for the treatment of WEEE should be developed.”

WEEE Directive 2012/EU/19

Certification to quality WEEE treatment standards requires operators to undergo independent auditing of their facilities and processes, detailed records inspections and laboratory testing of their recyclate, as well as investigation into any downstream treatment processes and partners.

During 2019 while the EU Commission considered the implementing acts of the WEEE Directive, the WEEE Forum, APPLiA, DIGITALEUROPE, EERA and Orgalim joined forces, to call for the adoption of one set of standards to be applied by all actors in a uniform way across the EU to improve quality waste management.¹¹

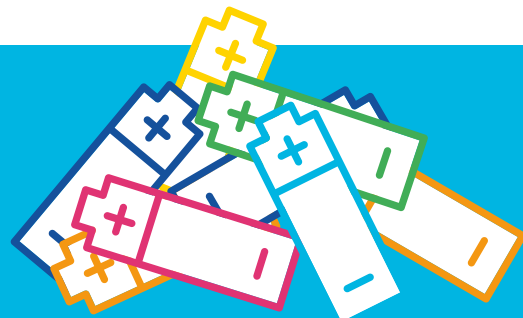
Their position noted the importance of strictly implementing all requirements from EN 50625 and EN 50614 and how the suite of CENELEC standards covering the collection, transport, re-use and treatment of WEEE, must be taken into considerations by European lawmakers.

Ireland is one of the five Member States that already uses these standards as part of their legislative framework.

Each Producer... shall ensure that all separately collected waste electrical and electronic equipment is treated in accordance with the WEEELABEX normative requirements or any other equivalent EN treatment standards.
SI149 of 2014

WEEE Ireland Scheme Approval 2017-2022 DCCA

WEEE Ireland supports a fair and equitable system for standards implementation in Ireland whereby mandatory aspects are enforced across the value chain for all actors involved in the environmental management of WEEE.



¹¹ https://weee-forum.org/ivs_news/joint-industry-comments_eu-wide-uniform-conditions-for-weee-quality-treatment/

Environmental Footprint



The publication of the Government's Climate Action Plan was an important environmental milestone in Ireland in 2019, identifying how the country will achieve 2030 targets for carbon emissions.

This plan sets out an ambitious course of action and clearly recognises that Ireland must significantly step up its commitments to tackle climate disruption which will be a major challenge to every dimension of our society, from businesses and communities to householders. The plan includes a chapter on Circular Economy highlighting the importance of managing the lifecycle of products and consumption to minimise the national footprint and improve resource efficiency.

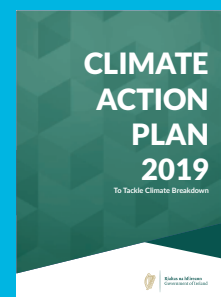
WEEE Ireland tracks the impact of the Scheme in the management of WEEE with a benchmarking tool developed through our collaboration with the WEEE Forum. Developed by the WEEE Forum Working Group CO₂ and validated by PRé, a world leader in the development of sustainability metrics based on life cycle thinking, the purpose of the CO₂-equivalent calculation tool is to provide WEEE Forum Members with a common methodology to calculate the environmental benefit of management of WEEE by their systems, expressed as avoided emissions of CO₂-equivalent energy savings.¹²

The tool provides WEEE Ireland and other WEEE Forum Schemes with an estimated value of the benefit of recycling WEEE expressed as tonnes of CO₂-equivalent

emissions saved per tonne of WEEE treated by the Approved Scheme.

In 2019, the equivalent of 227,000 tonnes of CO₂ emissions were avoided by recycling e-waste through the WEEE Ireland Scheme as opposed to landfilling. That is the equivalent of the annual carbon consumption of 4,543 hectares of trees.¹³

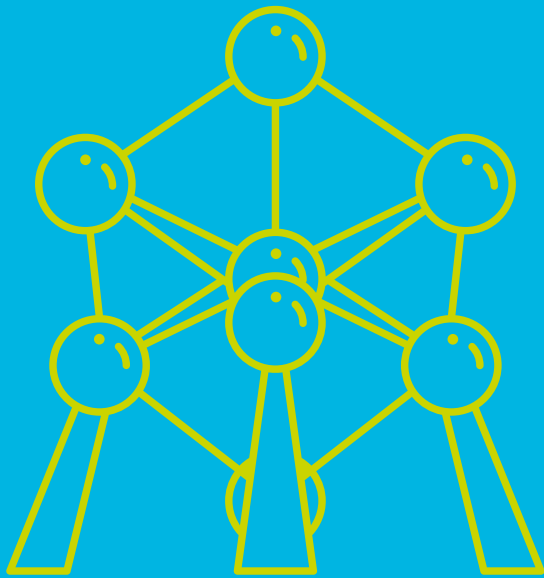
If Ireland's WEEE was not processed in WEEELABEX/EN equivalent standard authorised recycling facilities and instead was landfilled or illegally disposed of, the valuable materials contained within these products would not be reused. Instead they would be wasted and lost forever, while harmful gases from cooling and freezing appliances would be released into the atmosphere. Without recycling and recovery more metals and critical raw materials would need to be mined causing harm to ecosystems, and more energy would be required for the manufacturing of new products.



¹² <https://WEEE-forum.org/co2eqcalculation/> and <https://www.pre-sustainability.com/download/WEEE-Forum-E-Waste-Recycling-Assessment-Tool.pdf>
¹³ based on average yearly uptake of CO₂ of a hectare of Pinus Halepensis

The treatment and recycling of the WEEE collected by WEEE Ireland in 2019 has recovered:

20,400 tonnes of Iron, which is equal to



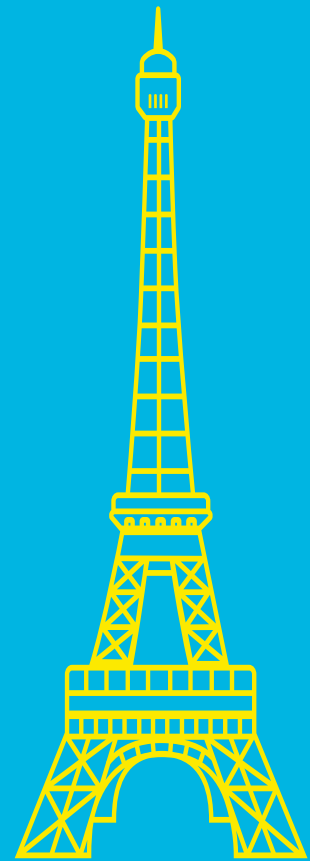
8.5 Atomiums or

in Brussels^[1]

2.79

Eiffel Towers

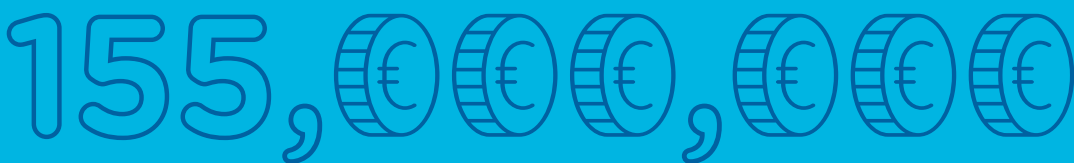
in Paris^[2]



872 tonnes of copper

which is the same amount found in

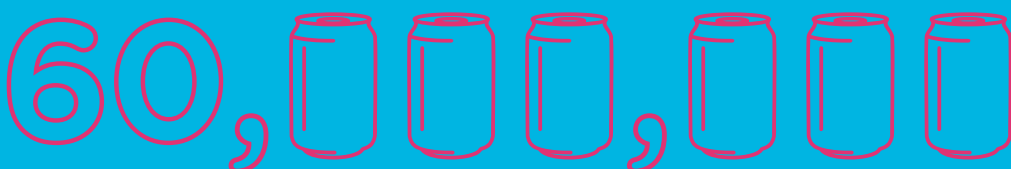
155 million €1 coins^[3]



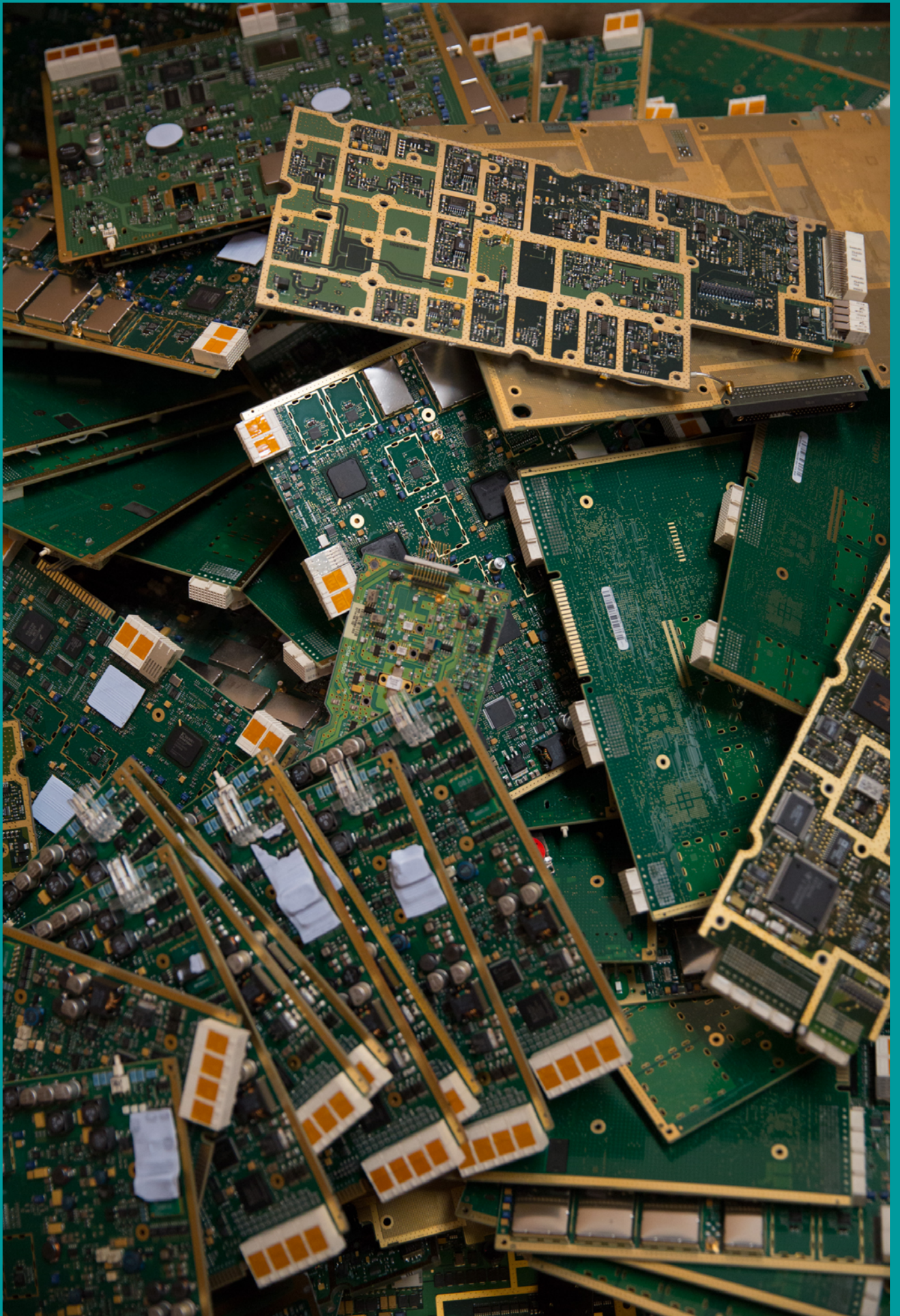
956 tonnes of aluminium

which is the equivalent to the aluminium content of more than

60 million 33cl cans^[4]



^[1] The Atomium weights 2400 tonnes. <http://atomium.be/560.aspx>
^[2] Building the tower required 7,300 tons of iron. <https://www.livescience.com/29391-eiffel-tower.html>
^[3] A 1 euro coin contains 5.625 g of copper. <http://copperalliance.org.uk/applications/coinage/copper-and-the-euro>
^[4] Average weight of a 33 cl can is 15 gram



Membership & Market Share



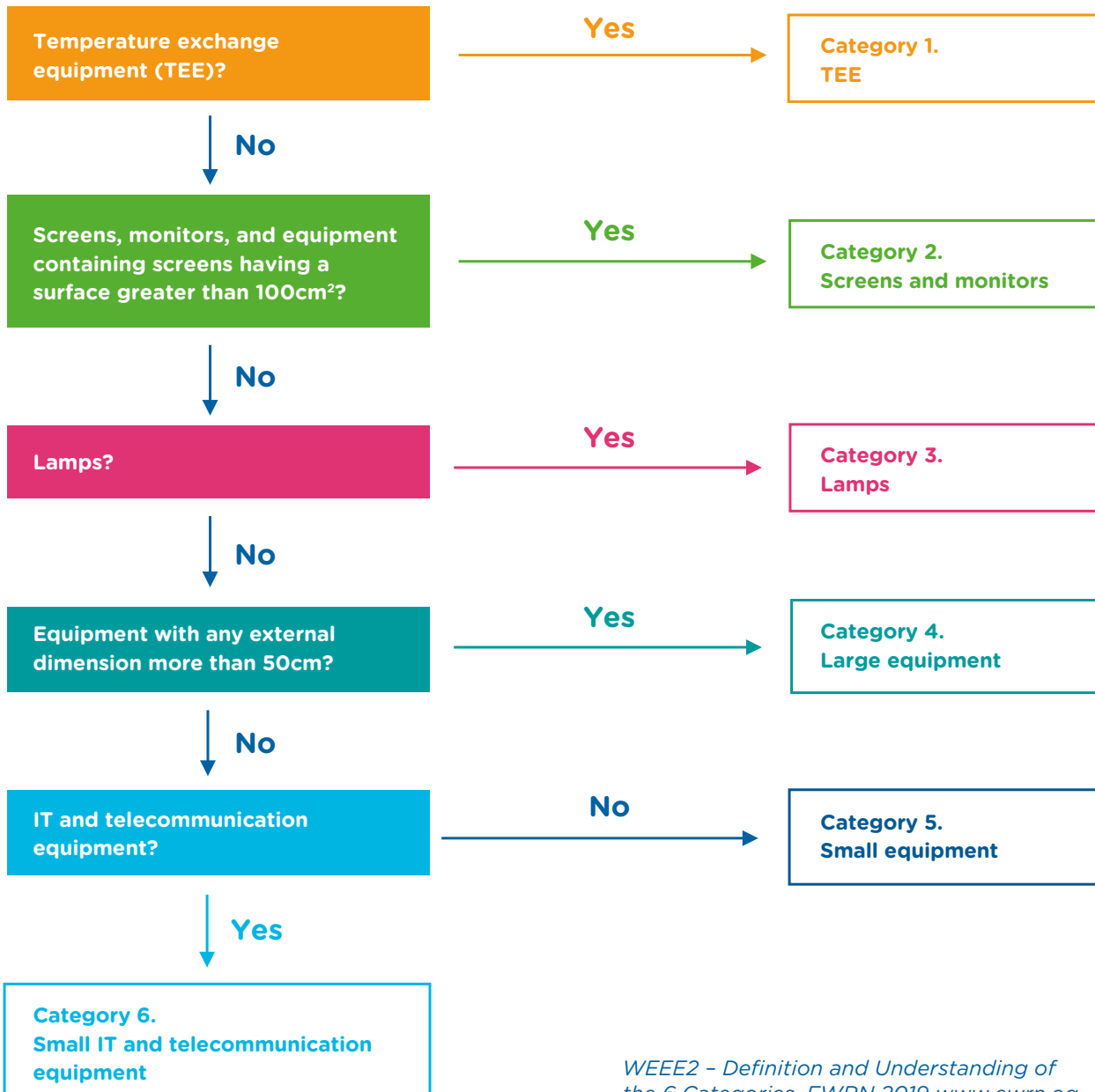
Open Scope

Producers on the Irish market began reporting under the new 6 categories as outlined in Directive 2012/19/EU, for EEE placed on the market from 1st January 2019 supported by a new category listing on the Producer Register Ltd website and a revised fee matrix for WEEE Ireland Members. Although the categories have been reduced to 6 the structure of subcategories have been maintained in Ireland to support the existing financial model which runs until 2022 for WEEE Ireland Members. WEEE Ireland supported Members through this change in their

reporting by providing 'ready reckoner' conversion documents and phone, email and meetings for support and guidance.

For the first time Household Luminaires are now in scope of the WEEE Directive, and it is anticipated other products previously deemed out of scope have been clarified as requiring reporting and registration under the WEEE Regulations in Ireland. Overall reporting by WEEE Ireland Members increased by 10% in 2019 compared to 2018.

Decision tree for categorisation*

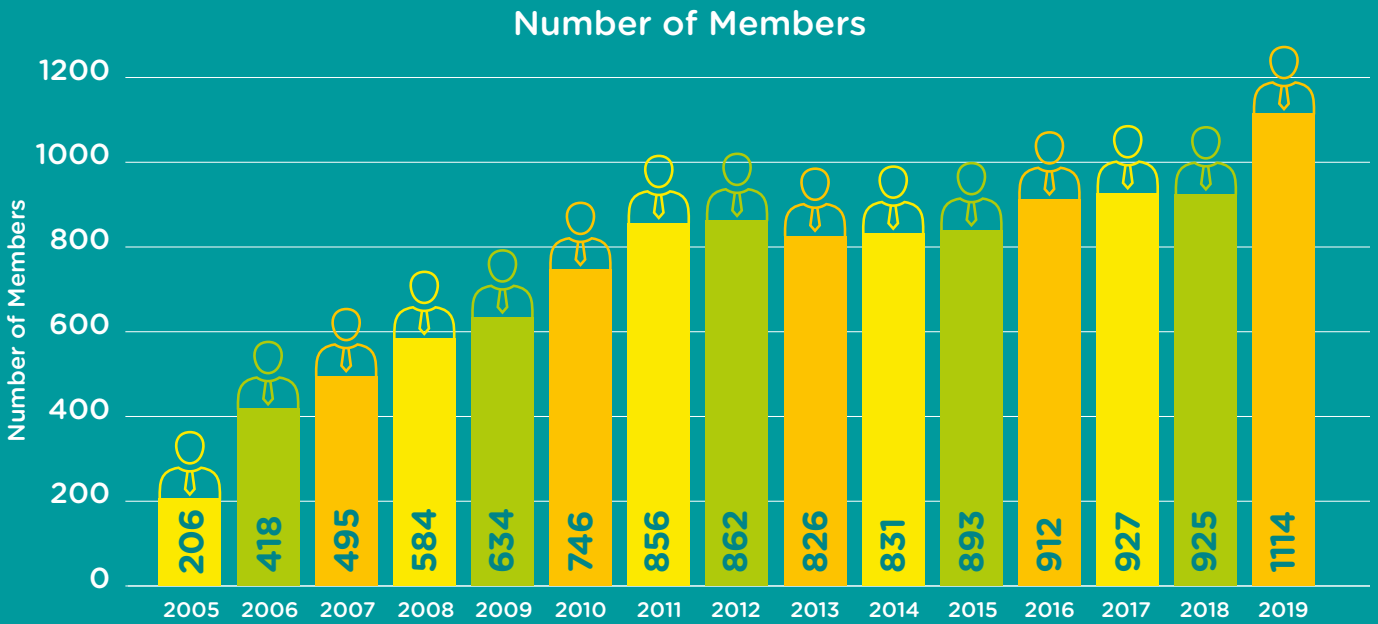


WEEE2 - Definition and Understanding of the 6 Categories, EWRN 2019 www.ewrn.org

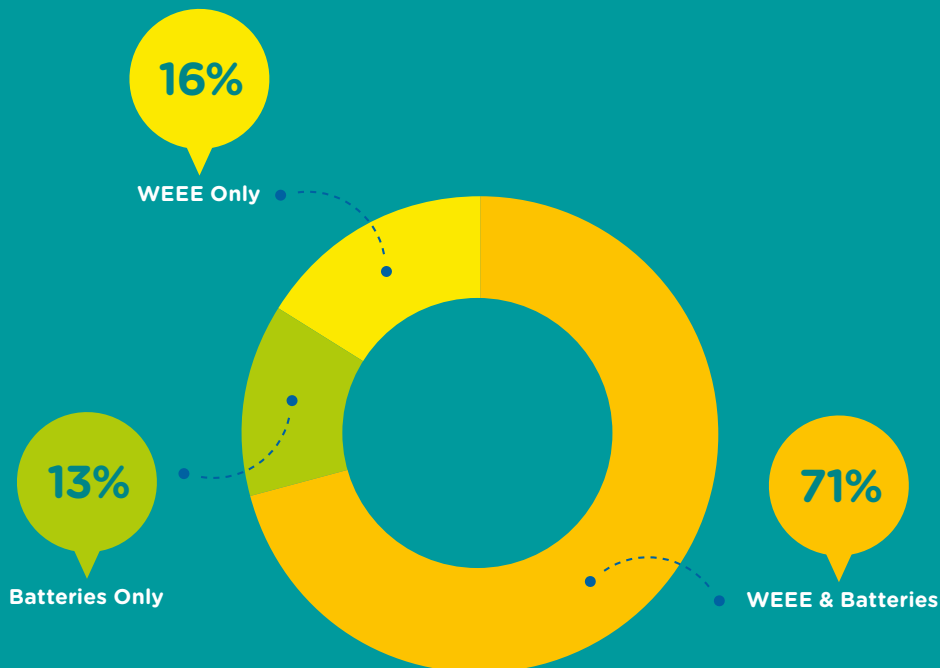
Membership Results

“ By 31 December 2019 WEEE Ireland had 1114 Members, including 179 new Producers who registered with the Scheme during the year ”

Over 100 Members had Authorised Representatives in place, enabling European manufacturers and importers to take on their Producer responsibilities in Ireland. 34 Producers deregistered as a result of mergers, take overs or exiting the marketplace.



WEEE Ireland Producer Members by Type



WEEE Ireland Majority Market Share

The market share of the Compliance Scheme impacts its designated geographic collection area in Ireland. The WEEE Ireland Scheme has been chosen as compliance provider by the majority of Producers in Ireland for the 15th year in succession.

WEEE Ireland also provides full national compliance services to the Lighting Sector as well as Industrial and Lead Acid Battery Producers.

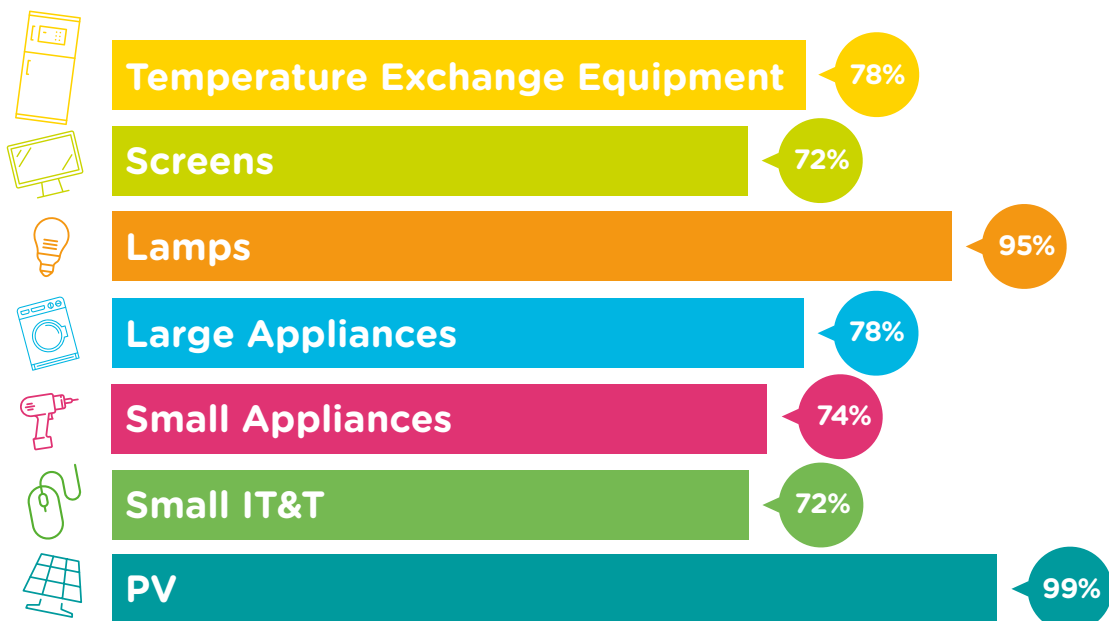
A valid certificate of Membership is renewed each year with Producers following submission of an online renewal form data, confirmation of accurate, up to date Blackbox reporting and payment of all applicable fees to the Scheme.

Small to medium Producers and those who choose direct debit payment methods will always receive a discount on annual administration fees.

Market Share



New WEEE Categories Market Share



Our 1000th Member!



WEEE Ireland was delighted in 2019 to welcome the Schemes 1,000th member JYSK Ireland, the largest Danish retail chain, selling household goods and operating in Ireland and internationally. In total, JYSK has over 2,700 stores and 23,000 employees in 51 countries and joined WEEE Ireland through the WEEE Europe Pan-European partnership.

Jenny Johnston, Sales & Marketing Manager, JYSK Ireland said: *“We are proud to become the 1000th certified Member of WEEE Ireland. Since entering the Irish market in April 2019, we have strived to act in an environmentally responsible manner as we roll out our network of stores across the country. Our Membership of WEEE Ireland forms part of our wider, global commitment to sustainability. Throughout 2019, we have been working intensively with the UN’s Sustainable Development Goals to ensure that our sustainability efforts make the biggest impact possible through our value chain.”*



Compliance Support

The Compliance Team at WEEE Ireland carries out three primary functions to support Members meeting their environmental management and Extended Producer Responsibility:

- The WEEE Ireland website provides resources, guidance and links to Members and applicant Producers in managing their Producer responsibilities.
- Application and Membership renewal forms are all provided online and a paperless contract system is used where Producers can digitally sign the Rules of Membership supporting a quicker turnaround for certification.
- During 2019 the WEEE Ireland team worked on a Fee Information Sheet to add to the complement of resources provided to Members during the 2020 Q1 renewal and certification programme.
- Throughout the year the Compliance and Membership Team disseminated 12 Newsletters online to communicate topics of interest including legislative and policy updates directly to Members.



Compliance Reviews



The Compliance Team carries out a range of Compliance Reviews to check the integrity of data provided by Members to the Blackbox and overview how Producers are meeting other obligations including Registration, Categorisation, Labelling and more. The Compliance Review programme is designed to support the range and type of Members of the Scheme including full Data Audits, Remote Compliance Reviews and SME checks and surveys utilising face to face meetings, calls and online forms for different groups and sectors of EEE Businesses. During 2019 234 formal Compliance Review Interactions were recorded with Members. This included checks on the accuracy and completeness of submissions to Blackbox, correct information to users, website information requirements, takeback obligations and accuracy of weight recording systems WEEE Ireland worked with Members to support changes to their WEEE and Battery systems in a reasonable timeframe where issues were identified on audit.

Retailers

By 31st December 2019 there were 7762 Retailers registered with the Scheme, including 209 new registrants via licences. ie. This registration is allowed for under Regulation 40 (14) of S.I 149 of 2014 and enables the takeback of WEEE without waste permits. Retailers in Ireland are required to take back WEEE on a like for like/one for one basis. They are required to take back batteries similar to the type they supply without obligation to purchase. Registration by Retailers in WEEE Ireland's designated area can be carried you via the An Post hosted portal www.licences.ie which is a partnership registration programme designed to reduce and simplify administrative burdens for business owners.

 Licences.ie



7726 Retailers

Pan European Partnerships

The WEEE Forum

www.WEEE-forum.org

The WEEE Forum is the world's largest multi-national centre of competence as regards operational know-how concerning the management of waste electrical and electronic equipment WEEE. It is a not-for-profit association of 40 WEEE Producer responsibility organisations from across the world and was founded in April 2002.

Through exchange of best practice and access to its reputable knowledge base toolbox, the WEEE Forum enables its Members to improve their operations and be known as promoters of the circular economy.



“Over the years, Producer Responsibility Organisations in the WEEE Forum have acquired substantial know-how on the technical aspects of collection, logistics and processing of WEEE. Since their foundation, the Producer responsibility organisations of the WEEE Forum have collected, de-polluted and recycled or sent for preparation for re-use 21 million tonnes of WEEE”
www.WEEE-forum.org 2020.

The Members of the WEEE Forum are representative of the whole spectrum of manufacturing industry. Two thirds of the Members are market leaders.

The WEEE Forum has designed and developed several of platforms and software tools, allowing the Producer responsibility organisations to benchmark their operations and have access to key data and intelligence.

The WEEE Forum is a vibrant community of Producer responsibility organisations that are committed to tackling the challenge of electrical and electronic waste. WEEE Ireland is proud to be a Member of the WEEE forum since 2007.

WEEE Europe



www.WEEE-europe.com

WEEE Ireland continued in 2019 to support Irish Members with Producer Responsibility obligations across Europe with the pan-European WEEE Europe services. Over 100 Producers in Membership with the Scheme had their offices based outside of Ireland in 2019 and were supported by Authorised Representatives in Ireland.

WEEE Europe offers a one-stop-shop solution for multinational WEEE & Battery compliance needs providing assessment and consulting, coordination of contracts, categorisation of products and simple and centralised POM declarations.



Eucobat



www.eucobat.eu

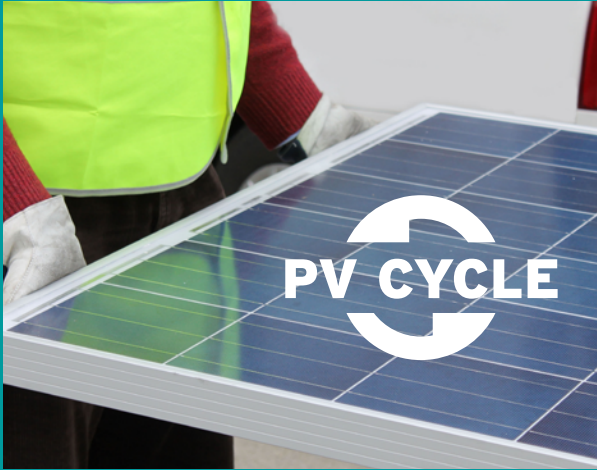
The use of mobile energy from batteries has increasingly become an essential part of our lives and the importance of the battery sector is recognised by the establishment of a European Battery Alliance in 2017 to ensure that all Europeans benefit from safer traffic, cleaner vehicles and more sustainable technological solutions. All this will be achieved by creating a competitive and sustainable battery cell manufacturing value chain in Europe which includes sustainable end of life recovery and recycling solutions. To extend the experience and knowledge of the WEEE Ireland team and support advancements in Battery EPR, the Scheme has been a Member of Eucobat since 2009.

Eucobat Members organise the collection and recycling of used batteries as easily and efficiently as possible. The organisations affiliated Battery Schemes encourage the sustainable use, collection and recycling of batteries through appropriate and clear communication. The main activities pursued by the association are:

- Collect, collate, exchange and benchmark information from Members, within the limits authorised by law, to promote an efficient operation of the collection, recycling and treatment Schemes
- Provide interested parties, including European and international institutions, with all pertinent information
- Provide Members with assistance and information concerning the implementation of the EU directive and other relevant legislation
- Liaise with other European organisations such as various industry and consumer associations and other interest groups
- Organise and participate in events, congresses, conferences, projects, meetings and working groups for the exchange of information and experiences among common interest groups
Collate, publish and share codes of best practices and provide logistical, information and support services to Members

PV Cycle

www.pvcycle.org



WEEE Ireland began working with PV Cycle in 2017 to connect international PV panel providers with a best in class service for WEEE and Battery compliance solutions in Ireland. PV CYCLE is a pan-European Producer Scheme, offering dedicated compliance and waste management services, with a special focus on solar energy systems. Founded in 2007 by and for the PV industry, PV CYCLE set the benchmark for collective PV waste treatment and today remains a clear leader in the sector. The organisation has national representations across Europe, including the biggest PV markets Germany, Italy, France, Spain and the United Kingdom.

Future WEEE

During 2019 The Compliance & Membership team continued to develop programmes to support Manufacturers of new technologies and their Irish importers and distributors in their extended Producer Responsibilities. The Scheme worked with the PV sector as they awaited details of new national renewable support systems to manage the registration requirements and future takeback solutions for their EEE and battery products. The long-life span of this equipment will pose challenges for the sector in determining future environmental and financial liabilities which need to be met in part when placing on the market.

2019 saw the beginning of a new programme with the Solar Photovoltaic (PV) Cell Sector in Ireland aimed at OEM European Producers and their Irish distributors in the Solar and Renewable energy sector. Solar power is Europe's fastest-growing energy generation source.¹⁴ The WEEE Ireland Membership programme will support Producers of these new energy technologies to meet their WEEE and Battery recycling obligations in the Irish market. The Scheme will ensure a pathway for

large-scale suppliers of PV cells into the marketplace to register and support the emerging distribution networks here.

The significant challenges ahead under the Irish Climate Action Plan require an innovative renewable energy sector helping Ireland meet key targets. To complement this, WEEE Ireland want to ensure Irish Producers are supported in meeting their financial, takeback and recycling obligations when PV technology reaches its eventual end of life.

Similar to how WEEE Ireland worked with the lighting sector, the importance of local suppliers and installers in the community, empowering people to make a positive change to solar PV energy solutions in their homes and businesses, cannot be underestimated and must be included in EPR solution planning. This programme aims to ensure PV and related technology supply chains are registered for Producer responsibility to manage their environmental and future recycling requirements in Ireland as the sector increases its reach in energy supply in 2020 and beyond.

Environmental & Quality Standards

WEEE Ireland was amongst 20 organisations from the private, public and SME sectors gathered at NSAI (National Standards Authority of Ireland) offices in Dublin in December 2019 for a special ceremony marking their achievement in becoming certified to world class business standards.

The ISO Quality and Environmental Management System approach and certification, helps WEEE Ireland to improve its Compliance Scheme performance by:

- Supporting a structured programme for a quality Membership service in the Extended Producer Responsibility (EPR) environmental sector
- Ensuring continued delivery of the Scheme's best in class approach to compliance in the area of WEEE and Waste Battery recycling and recovery operations

Speaking at the certification event, Pat Breen Minister for Trade, Business and Employment said 'Certification is an acknowledgment of your business's commitment to consistent innovation and improvement'.



Pictured: Pat Breen Minister for Trade, Business & Employment, Elizabeth O'Reilly Compliance & Membership Manager WEEE Ireland and Geraldine Larkin NSAI Chief Executive



New Marketplace Challenges

In 2019 a report from Eunomia Research & Consulting commissioned by the Organisation for Economic Co-operation and Development (OECD) estimated that up to 10% of the electronic and electrical equipment (EEE) bought online in Europe avoids contributing funds designed to pay for end-of-life management.¹⁵

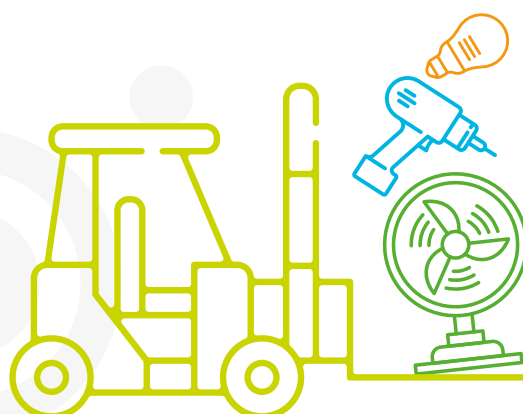
The EPR system in Ireland is equally challenged by non-registered Producers (free riders) including online distance sellers.

Amongst retailer and other inspections, the Irish EPA carried out 80 distance seller inspections in 2018 designed to find companies that may be importing and selling product in Ireland but are not complying with the regulations.¹⁶

The top three non-compliances they found for distance sellers were as follows:

1. Failure to display information on their website regarding the WEEE return and collection systems that are available to users (i.e. a statutory notice).
2. Failure to display information on their website regarding WEEE take back.
3. Failure to display the organisation's Producer Registration number on their website.

Distance sellers are required to organise takeback on delivery and provide an address in Ireland to support this activity. WEEE Ireland's Membership teamwork with all types of Producers including those with online sales platforms, to support their obligations under the WEEE and Battery obligations in Ireland.



¹⁵ Extended Producer Responsibility (EPR) and the Impact of Online Sales, <https://www.eunomia.co.uk/tackling-free-riding-epr-online-sales/>
¹⁶ Retail and Online Sectors EPA Enforcement Summary for 2018 <https://www.WEEEireland.ie/wor/dpress/wp-content/uploads/2019/06/EPA-Enforcement-Summary-Update-2018.pdf>



The Communications Challenge

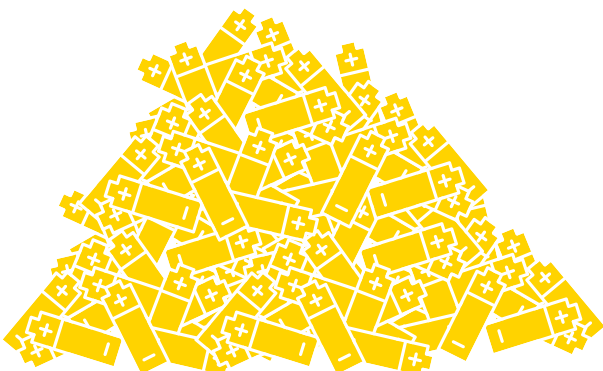
“WEEE Ireland shall operate a programme of national and sectoral educational and awareness raising activities. This awareness raising and communications campaign shall operate across all existing and emerging media platforms... exploring innovative new approaches to raising public awareness of the need to recycle Waste Batteries and WEEE”.

*WEEE Ireland Scheme Approval
2017-2022 DCCAE*

To deliver on the parameters laid out in our Scheme Approval and support the WEEE Ireland corporate strategy in supporting our Members e-waste collection target of 65%, 2019 required a communications strategy that not only created awareness, but engaged citizens in a movement of change.

A calendar of targeted campaigns and programmes was implemented along with a renewed commitment to partnerships with our key stakeholders to spread our Recycle for Good message and build on the successes of 2018.

With continuous measurement and evaluation of all activity, we ensured the highest return on investment and greatest reach, engagement, and impact on our WEEE community.



2019 Reach & Engagement



€500,000+

Press, Radio and Digital M-AVE

30,000+

Social Media Community



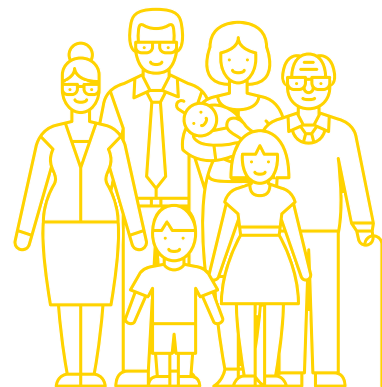
15,000+

Likes, Comments & Shares on Social Media Posts



98%

Positive Brand Sentiment



Members of the public saw or heard our Recycle for Good message

90 million+ times

Small Things Matter Now and Forever!



When it Comes to Recycling, One Small Action Can Make a Big Difference

Our **Small Things Matter** campaign returned in Spring and Autumn 2019. The campaign built on the momentum of 2018, continuing to encourage Irish householders return Waste Batteries, electrical and lighting equipment for **FREE** recycling at Local Authority Recycling Centre or participating Retailers, to help protect our environment and support LauraLynn, Ireland's Children's Hospice - with WEEE Ireland contributing to the charity, as part of the campaign.

Springing into Action!

As Spring cleaning was upon us Small Things Matter returned to show that the power was in all of our hands to recycle for good.

In order for us all to do the right thing and play our part, we asked householders to remember these three simple steps: that recycling small electronic household waste items is **FREE, EASY & LOCAL**:

- **It's Free:** Any small electrical item with a plug or battery can be recycled for free. Whether returning kettles, toasters, toys, lightbulbs, batteries or clearing out the garden shed of electric lawnmowers and drills, there's no need to worry about bin charges - it's completely free.
- **It's Easy:** When electrical items have reached the end of their useful life, they can easily be recycled at recycling points across the country. Return electrical waste to Local Authority Recycling Centres (at no charge), to participating electrical retailers (where there's no purchase necessary), and drop waste lighting equipment to Local Authority Recycling Centres, hardware or lighting stores nationwide too.
- **It's Local:** 100% of Small WEEE returned is recycled here in Ireland. Recycling Waste Batteries, electrical and lighting equipment allows resources including plastics, metals and glass to be recovered for further use in manufacturing, and ensures hazardous waste is disposed of safely helping to protect our environment. Every piece of e-waste matters.



“For a small nation, Ireland is playing a big part when it comes to recycling WEEE with over 60% of household e-waste recycled each year compared to a global rate of only 20%. And it’s not just our environment that sees the benefits. Because of the effort made by everyone to recycle, WEEE Ireland is able to support LauraLynn, meaning we are all helping to improve the quality of life for the children living with life-limiting conditions and their families. That is why WEEE say Small Things Matter”, Leo Donovan, CEO of WEEE Ireland.

Lighting the Way

In Autumn 2019, we published findings that 3.2 million lightbulbs were recycled in 2018, despite an estimated 10 million being sold in Ireland in the same period. We called on Irish consumers to “Have a Lightbulb Moment” and recycle their compact fluorescent (CFL) lightbulbs.

Research commissioned by WEEE Ireland in 2019 highlighted that almost 40% Irish adults still dispose of used lightbulbs in their general waste, despite the current era of heightened environmental awareness. As part of our Small Things Matter campaign, we sought to remind householders that energy saving lightbulbs, fluorescent tubes and their fittings can be recycled – and that it’s free, easy and local to do!

“Many people are making the change to LEDs for their home lighting. While Ireland is excellent at recycling waste household electrical goods and batteries, it is clear that when it comes to what to do with our old lightbulbs, we are still in the dark. Particularly surprising is the number of young people who don’t recycle their lightbulbs – over a third of 18-24 year-olds dispose of them in with their general rubbish, despite e-waste recycling being free and easy to do.” Leo Donovan, CEO of WEEE Ireland

“Batteries are the most commonly-recycled small electrical item in Ireland, with a collection point in almost every shop. We now want people to also associate their local hardware or lighting store with recycling their waste lightbulbs in the same way.” Jim Copeland, Head of Member Relations for the Irish Hardware Association. Waste lightbulbs can be recycled free of charge in a number of convenient ways:

- By returning them to local hardware stores
- By returning them to local lighting stores
- By asking lighting installers to return waste lightbulbs and lighting equipment to their wholesaler
- By bringing them to Local Authority Recycling Centres

100% of waste lighting equipment returned is recycled here in Ireland, at our WEEElabex Certified partners Irish Lamp Recycling, Athy, Co. Kildare.



Real Results

The Small Things Matter campaign supported WEEE Ireland in achieving an increase of

**15%
(1,629
tonnes)**

in take back of small WEEE,
and over

76 tonnes

of Waste Batteries being
recovered from Small
WEEE in 2019. ”



International E-Waste Day 2019

Following success in 2018, the second International E-Waste Day was held on the 14th October 2019 to raise public awareness of e-waste and promote the correct disposal of electrical and electronic equipment throughout the world.

International E-Waste Day was developed by the WEEE Forum, an international association of e-waste collection Schemes, of which WEEE Ireland is a founding Member. In 2018, WEEE Forum Members collectively reported collection and proper de-pollution and recycling of 2,200,000 Tonnes of WEEE. The creation of International E-Waste Day is to further increase awareness around the correct disposal e-waste to increase re-use, recovery, and recycling rates.

More than 85 Schemes and organisations from over 42 different countries worldwide took part and organised many different types of promotional activities, ranging from conferences and workshops, school and street collection campaigns to social media competitions and campaigns, and online guides and games.

WEEE Ireland organised a week of activities around 14th October to encourage Irish households to supercharge their electrical and electronic waste recycling efforts to mark International E-Waste Day – Free Public Collection Day Events, a WEEE Ireland Members Seminar Event ‘WEEE EPR in Action - New Rules for a Circular Economy’ and an extensive social media awareness campaign supported by Local Authorities and Retail Partners sharing videos, animations and infographics.

International E-Waste Day messaging highlighted the ever-increasing amount of e-waste is being produced worldwide. An estimated 50 million tonnes of e-waste would be generated across the planet in 2019. Half of this would be personal devices such as computers, screens, smartphones, tablets and TVs, with the remainder being larger household appliances and heating and cooling equipment.



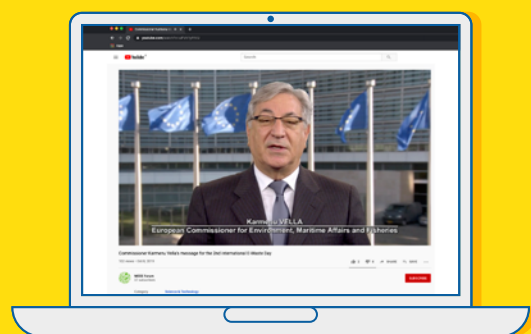
According to the UN, only 20% of global e-waste is recycled each year, which means that 40 million tonnes of e-waste are either placed in landfill, burned or illegally traded and treated in a sub-standard way and this is

despite 66% of the world’s population being covered by e-waste legislation. This results in the huge loss of valuable and critical raw materials from the supply chain and causes serious health, environmental and societal issues through illegal shipments of waste to developing countries.

Speaking at WEEE Ireland’s ‘EPR in Action Members Event’ in Dublin on 14th October, Pascal Leroy, Director General of the WEEE Forum, said “The volume of e-waste is continually increasing and contains many valuable as well as hazardous materials that should be recovered or properly treated when items are discarded. While consumer awareness of how to dispose of e-waste correctly is improving, it is still a struggle to ensure that e-waste is collected and treated by organisations with the correct facilities and channels, thereby guaranteeing that this is done so in a legitimate, safe and environmentally friendly way.”

Leo Donovan, Chief Executive of WEEE Ireland added “With the current awareness of global Climate Action issues Ireland is leading the charge in improving how we manage and recycle e-waste and it is important to emphasise we have solutions to the e-waste challenge. WEEE Ireland has consistently met or surpassed its target objectives year on year, supporting local Irish recycling facilities to recover the important materials in WEEE for use in manufacturing. The good news is in Ireland with over 600 free recycling points nationwide at local authority recycling centres and electrical Retailers, recycling your e-waste has never been easier. Whether it is an old washing machine, broken kettle or hair dryer that you’ve been meaning to clear out, International E-Waste Recycling Day is the day to do it!”

Also, marking International E-Waste Day 2019, **Karmenu Vella, EU Commissioner for Environment, Maritime Affairs and Fisheries** explained: “*We are entering the next stage in Europe’s commitment to foster a circular economy. This will be part of the new Green Deal for Europe announced by the incoming Commission President Ursula von der Leyen.*”



From 2019, the minimum collection rate to be achieved annually in EU Member states will be 65% of the average weight of all household and professional appliances placed on the market in the three preceding years, or alternatively 85% of WEEE generated. The new collection targets were to ensure that around 10 million tonnes, or roughly 20 kg per capita, will be separately collected. Such a high collection rate is hugely challenging to reach without the involvement of all actors in the value chain, including citizens. International E-Waste Day contributes to improving awareness and help improve the collection rates not only in Europe, but also globally.

Blue Box Battery Recycling Milestones

WEEE Ireland's dedicated Battery Box merchandisers work across our collection area to ensure collection points have blue boxes on display for their customers and support takeback when they are full.

Blue boxes are also distributed across schools, businesses, public buildings, and CA Sites across the Scheme's designated collection area. WEEE Ireland Blue boxes are designed to safely contain and transport waste portable batteries but they have a dual purpose, acting as a call to action to those at home, work and in education to recycle with the Scheme.

2019 was another record-breaking year for battery recycling with 47% of all portable batteries placed on the market recovered and recycled by WEEE Ireland. This is the equivalent of 11 AA batteries for every person in Ireland!

With national statistics estimating that 23 AA batteries are purchased per person in Ireland, this meant that 12 more batteries per person were "hiding" in homes across the country. Householders were called on to continue their support for the fantastic work done by LauraLynn and help the environment by bringing their batteries to any of the thousands of recycling locations around the country.

“ WEEE Ireland was also proud to mark over ten years of the Battery Directive in 2019.

Since the introduction of the Battery Directive in late 2008, WEEE Ireland has collected and recycled the equivalent of

320 million

AA batteries – that's 5 times around the coast of Ireland when laid end to end! ”



Continuing to create awareness for WEEE Ireland's blue box battery recycling throughout the year, our Battery Recycling Champion, the nation's favourite red head, was always on hand reminding us "Every battery that is recycled as part of WEEE Pledge helps to provide important support to WEEE Ireland's charity partner, LauraLynn, Ireland's Children's Hospice. I am so proud of all the boys and girls and grownups in Ireland for being such brilliant battery recyclers, but we need your help to find all those other batteries hiding in your house so we can fill up even more blue boxes and help even more of the lovely boys and girls at LauraLynn. Remember...don't put your batteries in the bin, recycle them for LauraLynn!"



LauraLynn

IRELAND'S CHILDREN'S HOSPICE



WEEE Pledge Schools Programme

In September, Scoil Lua Naofa in Tipperary became top of the class for battery recycling, as the winners of our WEEE Pledge Battery Recycling Programme.

Students and teachers from the school collected the equivalent of over 9,600 AA batteries, placing them on top of the leader board in Tipperary, and nationwide.

Phenomenally, students and teachers in schools across the country collectively diverted the equivalent of almost 1 million AA batteries in 2019 from landfill.¹⁷

Long standing ambassador for WEEE Ireland's battery recycling efforts and everybody's favourite red head, Bosco was thrilled to see the fantastic efforts of boys and girls across the country, and made a special visit to congratulate the students at Scoil Naofa on their win.

The WEEE Pledge programme continues to go from strength to strength as one of Ireland's most successful environmental schools' education programmes. The programme's explosive growth continues apace, and now encompasses a network of more than 2,500 schools, with over 100,000 students taking part since it began.

As we began the new academic year, our goal was to continue to bring this environmental programme onto the school curriculum and inspire the next generation to become guardians of our planet. Hosted on WEEEpledge.ie, a bank of free educational assets is available for schools and parents, with lesson plans, activity sheets and other materials being provided to help educate children around e-waste issues, and to support the continued growth of the WEEE Pledge programme.

The WEEE Pledge programme also features as a key component for many schools *Sustainability Development Goals* work, further developing the understanding and importance of being responsible for the environment and how their recycling efforts are making a real and lasting difference in each of their communities.

Participating schools recycling efforts not only help the environment but also support LauraLynn, Ireland's Children's Hospice, with WEEE Ireland contributing to the charity, as part of the challenge.

Sustainable Development Goals



WEEE Pledge Winners 2019

School	County/Region
Borris Vocational School	Carlow
Barryroe National School	Cork
Ballinagree National School	Cork
Gortnacart National School	Donegal
Saint Augustine's School	Dublin
St Pius X Boys National School	Dublin 6
St Vincent De Pauls Girls School Marino	Dublin 9
Lawrencetown National School	Galway
Kiltormer National School	Galway
Scoil Naomh Lorcaín	Kildare
Presentation Convent National School	Kilkenny
St Joseph's National School	Laois
St Michael's National School Glenfarne	Leitrim
Gaelscoil Longfoirt	Longford
St Mary's Secondary School	Mayo
Rath National School	Offaly
Cloontuskert National School	Roscommon
Rathlee National School	Sligo
Scoil Lua Naofa - National Winner	Tipperary
Crehana National School	Waterford
Ballinahown National School	Westmeath
Ballyduff National School	Wexford
Carnew National School	Wicklow



¹⁷ Units estimated equivalent weight of million AA batteries.

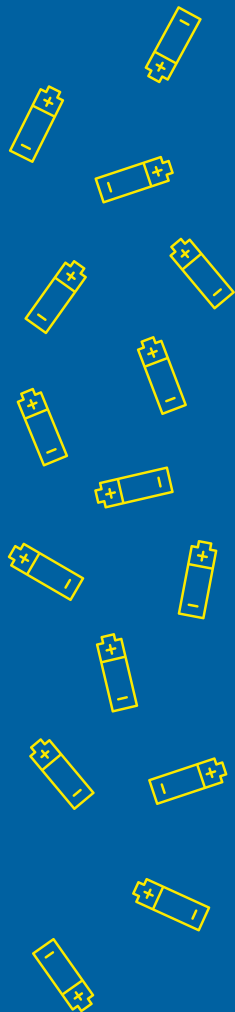
Every Moment Matters, Every Battery Counts

2019 saw the continuation of our special partnership with LauraLynn, Ireland's Children's Hospice on behalf of industry Members, highlighting that Small Things Matter and can really make a difference.

A donation of €50,000 brought total donations to €390,000. This support for LauraLynn was thanks to the fantastic recycling efforts of the Irish public. By recycling their Waste Batteries, they are benefiting the environment and supporting LauraLynn to provide much needed services to children and families across Ireland.

Accepting the donation on behalf of LauraLynn, CEO Orla O'Brien said *"This is a very special campaign that we are honoured to have been involved in over the last nine years. The funds that we have received from WEEE Ireland as a result of the campaign have had such a positive impact on the children and families who need LauraLynn, a huge thank you to everyone who took the time to recycle their batteries. It may seem like a small thing, but for the children and families who need LauraLynn, and for the environment, it is huge and very impactful."*

“€390,000
donations”



European Battery Recycling Week

From 9th to 15th September, WEEE Ireland marked another European Battery Recycling Week, an initiative created by the Members of Eucobat, the European Association of National Battery Collection organisations in Europe.

Local awareness campaigns ran in Ireland and across countries throughout the EU during the week to remind European citizens of the importance of collecting, sorting and recycling their used batteries. Our campaign was shared and promoted by our Local Authority and Electrical Retail partners - helping us get this key message out to the public.

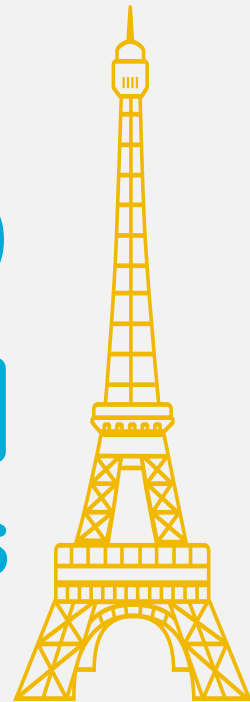
Each day, collectively Eucobat Members collect more than 10 million batteries, and approximately 2.5 billion batteries per year. This is 55,000 tons per year and more than 75% of all portable batteries collected in Europe. The same as the weight of seven and half Eiffel Towers!

These batteries are first accurately sorted and then processed in various recycling facilities throughout Europe. Next all valuable materials such as cobalt, nickel, rare earth metals, zinc, lithium, lead, manganese, and steel are recovered from the batteries. The recovered materials are processed into new products such as spectacle frames, jewellery, forks, knives, gutters, and even batteries for electric cars and e-bikes.

European Battery Recycling Week 2019 also highlighted the preparations for the transposition of the new Battery Directive in 2020, with all participating Schemes using the opportunity to share these results with key decision makers in their respective market.



7.5 Eiffel Towers



Community Values

Public Collection Day Events

WEEE Ireland's free community based Public Collection Day Events continued in 2019. Recruitment of the public to join the recycling movement is central to increasing the take back of WEEE and achieving the national targets as determined by the EU WEEE Directive.

We continued to drive awareness and reach of the WEEE Ireland Public Collection Day Events amongst households and community groups. Working closely with our partners in Local Authority and Community Recycling Groups in each location, each event was promoted locally through press, radio, PR, social media and local community networks. This targeted promotion of WEEE Ireland Public Collection Day Events supported annual increase efficiencies of operations to yield clear and positive results.

835

Tonnes of e-waste collected, the equivalent to over 140 trucks full of old and broken appliances!



40

Public Collection Day Events, across the country

800+

Promotional Adverts

1.5 million+

People saw or heard WEEE Public Collection Day Event advertising

17%

Increase of e-waste collected (2019 Vs 2018)






Recycle IT

WEEE Ireland continued our longstanding and valued partnership with Recycle IT across 2019, a unique Community Electronic Recycling Social Enterprise providing a neighbourhood and community kerbside and business collection service for all types of WEEE in South Dublin and surrounding areas.

Recycle IT was established in 2002 to offer employment and reduce environmental harm created by the illegal dumping of old household appliances. As a not for profit social enterprise, Recycle IT has benefited the WEEE sector through the collection of electronic waste from householders and organisations who may otherwise find it hard to recycle.

They endeavour to support people living and working in communities and place an emphasis on individual needs. Their collection teams are experienced and happy to support people requiring additional assistance with lifting or moving electronic items. The personal approach to their service further supports their goal to reduce the volume of electronic waste going to landfill and increases environmental awareness amongst local householders, community groups, businesses, colleges and schools.

On average each year they offer collection services to approx. 100,000 homes and organisations across Dublin collecting a range of WEEE including kettles, TVs, dishwashers and computers. Income generated by collection and breakdown of e-waste is reinvested in training and employment and environmental awareness. In 2019, their team safely recycled over 1000 tonnes of waste equipment, an organisational milestone.

Recycle IT are also an award-winning social enterprise, and were recognised for their exemplary achievements throughout 2019:

- Selected as “Best Not-For-Profit Organisation” finalist at the South County Dublin Business Awards arranged by South Dublin Chamber and South Dublin County Council.
- Winner at the JCI Friendly Business Awards for Dublin in the category, Eco-Friendliness.
- Awarded the accolade of “WEEE Recycling Champion 2019” by Repak at the 2019 Pakman Awards.
- Awarded by Technological University Dublin (TU Dublin) for engagement with the Students Learning with Communities Programme.

Their services are provided in partnership with WEEE Ireland and with the cooperation of South Dublin County Council and the National Waste Collection Permit Office. The organisation has developed and now offers training and employment to 25 people annually in a range of recycling services.

Recycle IT is governed by a voluntary board, operates under the WEEE directive. It is a social enterprise and is part-funded through the Community Services Programme, and the Dormant Accounts Fund operated by Pobal on behalf of the Department of Rural and Community Development. Income earned is used to finance operations which include the provision of training and employment opportunities.

We'll Take It Back Retail Scheme

56% of WEEE take back was sourced through the retail sector in 2019. This was made possible by an extensive network of 200+ We'll Take It Back nationwide electrical Retailers facilitating FREE take back of any household e-waste.

The take back of e-waste through Retailers is higher in Ireland than in any other country in Europe. This network of key Retailers complements nationwide Local Authority Recycling Centres and an annual calendar of WEEE Ireland Public Collection Events.

The *We'll Take It Back Retail Programme* was launched in 2014 by WEEE Ireland and industry stakeholders to support electrical retailers across Ireland in their legal obligation to take back WEEE, Waste Battery and Lighting Equipment for free from consumers. The marketing element of the programme promotes the idea of Retailers as e-waste recycling centres for their customer base.

In return the *We'll Take It Back Programme* supports Retailers to promote free WEEE recycling as part of their overall marketing strategy and as an added value service to their customers. Through the programme Retailers are able go beyond like-for-like, one-for-one take back obligations and include free recycling of all household WEEE and batteries instore as part of their offering.

Whether buying online or browsing in store our retail partners ensure that the *We'll Take It Back* message is a key offering for their customer base.

WEEE Ireland in turn highlights all *We'll Take It Back Programme* Members as key recycling points - through all of our national awareness campaigns, on our interactive online map and in all communications directly with the public about options e-waste recycling.

"...when supplying a new product, distributors are responsible for ensuring that such waste can be returned to the distributor at least free of charge on a one-to-one basis as long as the equipment is of equivalent type and has fulfilled the same functions as the supplied equipment".

WEEE Directive 2012



My Waste

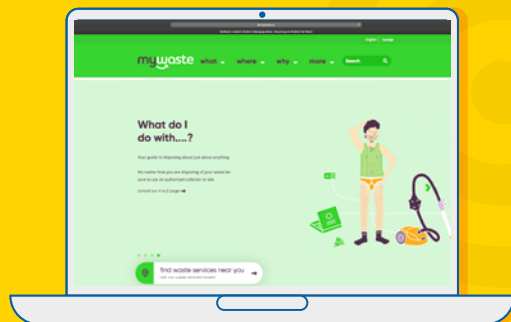
In 2019 we continued our partnership and support of My Waste - Ireland's official online guide to managing your waste. An initiative powered by the Regional Waste Management Offices on behalf of the Department of Communications, Climate Action and the Environment.

The site provides a hub for local waste services - bring banks, recycling facilities along with ways to help prevent waste, repair, reuse and upcycle. They offer a helpful A to Z guide of all types of waste, greener living guides, information on waste services and bye laws, and much more. Members of the public can easily find everything they need and want to know about managing their waste responsibly, efficiently and in the way that suits them.

My Waste have a strong and engaged social media presence supporting positive and informative conversation and awareness of what, where and why of waste.

WEEE Ireland have worked with My Waste since its launch in 2018, sharing resources and information, and amplifying

each other's communications. We share the common goal of increasing public awareness that recycling turns our waste materials into new useful products, reducing the use of finite raw materials, saving energy and helping control air, water and land pollution.



Pakman Awards

WEEE Ireland continued our sponsorship of The Pakman Awards - WEEE Champion Category for a fifth year running.

Each year the Pakman Awards search to find the environmental champions who are shaping Ireland's future, recognising excellence in waste management, sustainability, recycling and efforts to reduce climate change as we move towards a more circular economy. Organisations, businesses, community groups and individuals in Ireland are all eligible to enter.

The WEEE Champion Category invites businesses, community groups, schools or individuals that can demonstrate the extra steps they have taken to increase electrical take-back for recycling and increase awareness of the need to recycle this waste stream.

Research released for the launch of the awards in June 2019 revealed Ireland's attitudes to sustainability efforts of organisations, with an impressive 96% of those polled confirming that they would be more inclined to shop or engage with a company who had been rewarded for tackling climate change.



On the night of the awards are Una Lavelle & John McEntee of Recycle IT, who were awarded winners of the 'Pakman 2019 WEEE Recycling Champion', pictured with Minister Richard Bruton TD and WEEE Ireland CEO Leo Donovan. were awarded to Repak at the 2019 Pakman Awards.

Annual entries to the Pakman Awards are free, and WEEE Ireland encourages all of our Partners, Members and Stakeholders to enter. A full list of categories is available on www.pakman.ie.



Shining a Light on Excellence

WEEE Ireland continued to grow our lighting sector partnerships in 2019. These key partnerships across the electrical wholesale and trade sector seek to drive lighting take back and build awareness. With support from our Lighting recycling partners Irish Lamps Recycling Ltd and sector media such as Electric.ie, WEEE Ireland sponsored categories at prominent electrical trade awards to recognise excellence in take back amongst this sector.

AEW Sector Partnership

Retail partnership driving lighting take back and awareness across the electrical wholesale and trade sector.



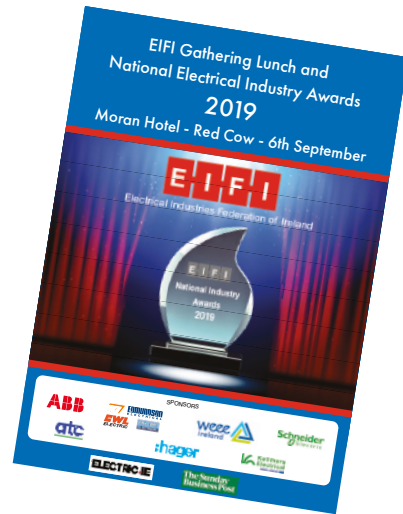
AECI Tradeshow

Sponsorship of Golf Event Prize & Refreshments



EIFI Awards

Sponsorship of new 'WEEE Ireland Green Award for Excellence in Lighting Take Back'



IEBA Annual Ball

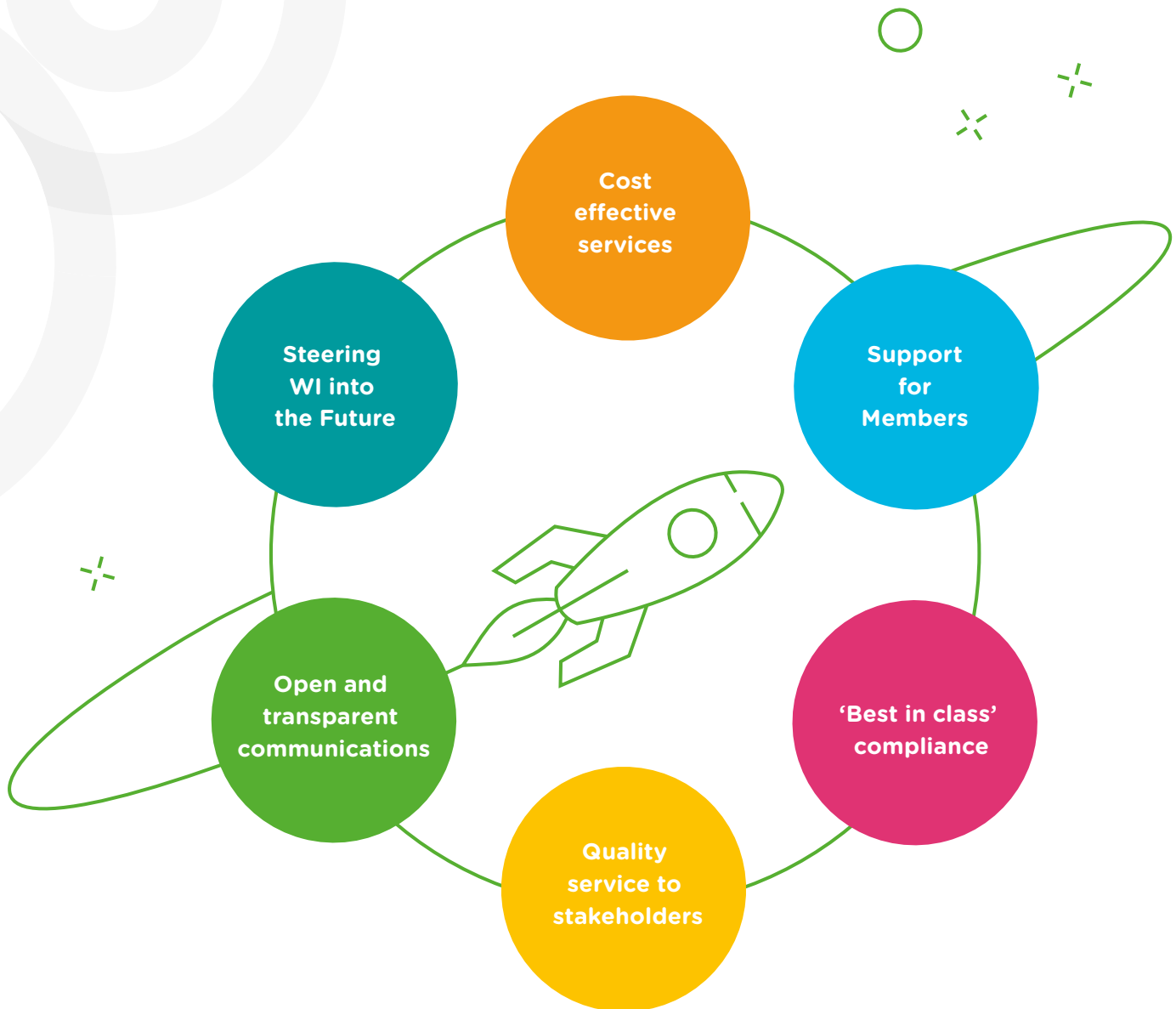
Headline sponsorship and speaker



Pictured at the EIFI Awards Lunch are Martin Flaherty, Flaherty Markets, Galway '2019 EIFI WEEE Ireland Green Award' winners with Adam Smith, WEEE Ireland.

Strategy

WEEE Ireland's strategic focus aims to meet the requirements of its Producer Compliance Scheme Approval from the Minister for Communications, Climate Action and the Environment through:



“ The new future focus Scheme recognises the transformation that is happening across the EEE and Battery Sector to deliver a more circular economy and support resource efficiency at Irish and European level ”



WEEE EPR in Action

WEEE Ireland was delighted to welcome Members and Stakeholders from the Irish Electrical and Battery Industry to the Alex Hotel in Dublin 2 in October for our annual briefing event.

Marking the occasion of the second International E-Waste Day and the achievement of WEEE Ireland's 1000th Member, the WEEE Ireland team welcomed all those who took the time to attend and participate in the event.

CEO Leo Donovan gave an overview of Circular Economy and policy development in Ireland which will introduce more EPR aspects from new and amended Waste Directives in 2020.

The Department of Communications, Climate Action and Environment provided attendees with a briefing note on the Circular Economy.



“ Among the potential measures to achieve these targets the European Commission has recognised that extended Producer responsibility (EPR) can act as a major policy tool for accelerating the circular economy.

Ireland's Future Waste Policy and Circular Economy - Briefing Paper for seminar “WEEE EPR in Action DCCAE 2019”





WEEE Ireland encouraged all Members and representative associations to take the time to submit to the national review on waste policy which is continuing throughout 2020.

WEEE Ireland welcomed Mark Hilton, Head of Sustainable Business at Eunomia Research and Consulting as keynote speaker. Eunomia have been working on an EPR review and guidance development for the European Commission. Mark spoke about the implications of the revised Waste Framework Directive (WFD) with specific focus on the challenge of eco-modulation of fees in EPR.

WEEE Ireland welcomed again Pascal Leroy from the WEEE Forum to the EPR event to showcase the activity of the organisation as a centre of excellence in Europe for WEEE Compliance Schemes.



AUDIENCE QUESTIONS AT EVENT

Does Eunomia see any change to the approach to EU directives and e waste treatment within the UK should there be a full Brexit?

Is self declaration by Producers reasonable and practical? How would this be monitored?

Lighting industry has responded it appears by manufacturing more long lasting lighting and efficiency without push of eco fees - why?

As we move more and more to reuse and recyclability of eMobillity batteries would they be in scope (for reporting and recycling) of Battery or ELV directive?

Subject to EU wide fee modulation introduction how will this impact on Producer competition who operate in various Members states?

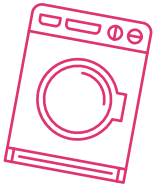
Prep for reuse here faces major barriers e.g. prohibitive compliance/insurance cost, no target, poor quality storage/material. What is WEEE Ire strategy on this?

When will eco modulated fees apply in Ireland?

Is there a consultation framework from dept for renewing waste policy?

Circular Business Models

It is important to the WEEE Ireland Scheme that the views of Irish Producers are represented in all of our activities. We welcomed representatives from different sectors for an interactive Q&A panel discussion at our EPR event. They took the opportunity to present on both issues and innovation that will arise in their sector as the industry transitions to more circular product and service supply models.



Did you know, over 80% of Europeans' requests for repair of a home appliance product resulted in actual repair because home appliance manufacturers keep spare parts in stock for current and old product models (Applia, 2019). Richard Broderick presented on the strong role the White Goods Association (WGA) in Ireland have played in developing the national WEEE system. The WGA are the 'heavy weights' of WEEE target achievement measured by weight taken back and recycling rates. Richard described how the industry has a strong repair and after sales culture. The WGA is interested to see how this can connect with more waste prevention, and preparation for reuse of household appliances as part of Circular Economy developments.



Circular Lighting



3700 LED Fixtures



50% Electricity Reduction



Fixtures last 75% longer

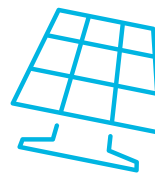
The lighting sector already supports sharing economy models for Light as a Service both in Ireland and beyond? Cel O'Reilly from the Irish Lighting Sector shone a light on where the industry is going now and into the future - using Schipol Airport and Philips' collaboration as an example. In this example, the customer now pays for the light it uses, while Philips retains ownership of the fixtures and installations. The 3,700 LED fixtures installed were designed to last 75% longer, and the materials at the end of the contract can be returned for recycling or reuse, adhering to Schipol's vision of sustainability.



“Ireland is committed to producing at least

16%
of its energy requirements

from renewable sources by 2020, these long life products will need sustainable EPR and financing models to ensure liabilities are met in a cost effective way into the future ”

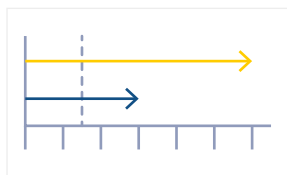


The Irish Solar Energy Industry Association (ISEA) along with the Micro Renewable Energy Federation (MREF) met with WEEE Ireland during 2019 to discuss national compliance solutions for the PV Sector.

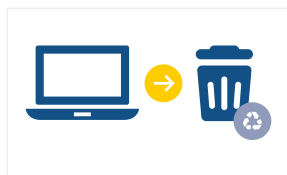
Michael McCarthy, CEO of ISEA outlined the drive and direction of the PV sector in Ireland at the annual event and noted the importance of strong EPR systems for this long-life product and green tech sector. “Ireland is committed to producing at least 16% of its energy requirements from renewable sources by 2020, these long-life products will need sustainable EPR and financing models to ensure liabilities are met in a cost-effective way into the future.”

Battery Directive Review

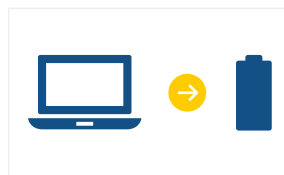
🔄 Elements influencing the collection rate



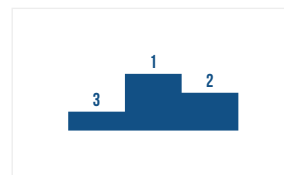
Lifespan of the batteries and evolution of the battery market.



WEEE collection rate.



Removal batteries from WEEE.



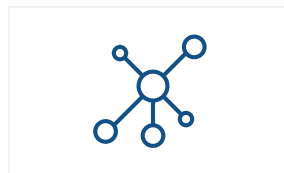
Impact of competition



Interpretations of definitions.



General consumer awareness towards waste.



Density of the collection network.



Intensive consumer awareness campaigns.

During 2019 the EU Commission completed the implementation report and long-awaited evaluation report of the Batteries Directive.

The general conclusions of the Commission are that the Directive has delivered positive results in terms of a better environment, the promotion of recycling and better functioning of the internal market for batteries and recycled materials. However, limitations in some legal provisions or their implementation prevent the Directive from fully delivering on its objectives.

Most Member States have met or exceeded the 2012 target for the collection of waste portable batteries (set at 25 %), but only 14 Member States have met the 2016 target (set

at 45 %). The evaluation points out that these targets are generally insufficient to ensure a high level of collection of waste portable batteries.

The evaluation is part of a process that could lead to the Directive's revision. It has taken account of the increased use of batteries, due to the diversification of communication technologies or the growing demand for renewable energies.

Eucobat has released a series of position papers to support the development of a New Battery Directive in Ireland which WEEE Ireland disseminated and discussed them with Members throughout the year.

The visible environmental fee for batteries

“The Extended Producer Responsibility (EPR) is an environmental policy approach in which a producer’s responsibility for a product is extended to include the post-consumer stage of a product’s life cycle.”

ADVANTAGES OF THE VISIBLE ENVIRONMENTAL FEE



Environment

A visible environmental fee, indicating the collection and recycling costs, ensures that economical and cost related elements are not the sole driving factors in the management of the waste batteries.



Consumers

Invoice the net costs related to the collection and recycling of the waste batteries separately, without a profit margin of the different steps in the distribution chain.



Authorities

A visible fee on the invoices of the economical actors simplifies the market surveillance activities.



Economic actors

The visible fee limits the impact on existing commercial relations between economical actors involved in the distribution of new batteries.

POSITION EUCOBAT

“Eucobat proposes that Member States be allowed to require a visible compliance fee to be mentioned on invoices from producers to purchasers of batteries.”



WEEE Ireland is supported in its current Battery activities and inputs to legislation and policy consultations by a **Battery Steering Committee**. During 2019 Thomas Barillot, WEEE Ireland Director and Environmental Manager at Apple took on the role of Chair of the Committee. The group undertook 2 meetings during the year and a visit to the KMK Metals Recycling Plant to view the sorting and management processes there for Waste Batteries.

New Waste Policy Consultations

A High-Level Consultation Event on Waste Policy and the Circular Economy took place on 16 September 2019 which WEEE Ireland attended at the invitation of Minister Richard Bruton alongside 100 leaders from across the waste and resource management sector. The DCAE officials hosted presentations and breakout sessions as part of the process to further develop the national Circular Economy Action Plan and set the foundations for a New Waste Policy consultation. During November 2019, the DCAE launched a Public Consultation on Proposed Introductions on New Environmental levies and the Environmental Fund.



Waste Conference 2019

The 2019 Irish Waste Management Conference was held on the 28th of November in Croke Park, Dublin.

The event, co-sponsored by WEEE Ireland, gathered actors from the industry to discuss the current state and challenges of waste management in Ireland.

Regarding the WEEE sector, Leo Donovan, CEO of WEEE Ireland, highlighted the importance of Extended Producer Responsibility in the management of Waste Electrical and Electronic Equipment and the development of a Circular Economy. Leo's presentation also focused on:

- The impact eco-modulation fees will have for consumers purchasing electrical appliances in 2023
- Examining Ireland as a successful case study for the implementation of the mandatory e-waste recycling treatment standards now proposed for all of Europe (see article below)
- How WEEE Ireland plans to encourage consumers to not only recycle more, but also repair and reuse more appliances and devices
- WEEE Ireland's strategy for environmental management and EPR solutions for new long-life technologies including lithium batteries and the PV Sector

Philip Nugent, Assistant Secretary leading the Natural Resources and Waste Policy function in the Department of Communications Climate Action and Environment, announced the opening of a Waste Policy Consultation.



Closing the WEEELoop

WEEE Ireland shall continue their prevention and minimisation programme with a focus on optimising the reuse of Members WEEE.”

WEEE Ireland Approval 2017-2020

EPR solutions toward a Circular Economy

WEEE Ireland has worked since 2005 on quality environmental management solutions for Producers, Distributors and Consumers of WEEE and Waste Batteries. The annual report details the high level of quality recovery of material from the Scheme's recycling processes.

It is important that WEEE Ireland continues to engage with Irish and European partners, Members and Trade Associations on solutions throughout the waste hierarchy to further 'Close the WEEE Loop' toward a Circular Economy. The WEEE Ireland website now showcases selected projects and activities the Scheme, partner organisations, Members and Stakeholders are engaged in, to demonstrate the range and scale of circular activity in place and under development across the sector.

WEEE Ireland and Ireland's new industry Circular Economy Initiative: CIRCULÉIRE

During 2019 WEEE Ireland engaged with IMR to become Members of this new Circular Economy industry platform to give added value and support to Producers in their circular transformation efforts.

CIRCULÉIRE is a public-private partnership (2020-2022) dedicated to driving large scale systems-level innovation that show the business and societal value for embracing circularity in Ireland and accelerate the transition towards a zero-carbon circular economy.



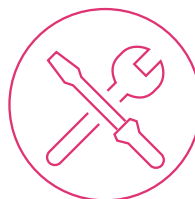
CIRCULÉIRE will de-risk, de-mystify and deliver circular economy concepts taking companies on a journey from linear to circular business models through knowledge sharing, capacity building, baselining, auditing, business case development, thematic working groups and deep demonstration innovation projects - deploying €1.5m in innovation funding. CIRCULÉIRE will operate a hybrid funding model leveraging both industry and public investment.

CIRCULÉIRE is engaged in collaboration with actors from across the Irish innovation ecosystem - government; MNCs; SMEs, solution providers, academia, NGOs and social enterprise. Through the platform WEEE Ireland looks forward to engaging with its Members on Circular Economy innovation for the Electrical and Battery Sector.

Lifecycle Thinking

APPLiA the Home Appliance Europe trade association provides a platform through its Circular Culture Initiative to share practices and innovative solutions for different topics such as food waste prevention, recycling and resource efficiency. Their "Repair Don't Despair" Campaign reminded consumers across Europe to prolong the use of their appliances and use authorised repair engineers for quality and safety repair of home electrical equipment.

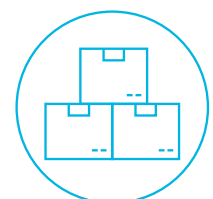
WEEE Ireland is working with Members of the White Goods Association, the EPA Waste Prevention Programme and Monaghan County Council to further develop the Repair my Stuff website and connect people with Brand Authorised Repair Engineers in their locality, as well as encouraging more Members to connect with the site.



81%
percentage of
repaired products



32,000
workers linked
to repair activities



The repairs are only possible because APPLiA members keep spare parts in stock for current and old product models

<https://www.applia-europe.eu/topics/167-81-of-the-requests-for-product-repair-result-in-actual-repair?>

Preparation for Reuse

Organisations wishing to access WEEE for preparation for reuse can register with The Producer Register or contact them directly for details of existing preparation for reuse organisations. Authorised preparation for reuse organisations can then access suitable WEEE through the Compliance Schemes. Under this system WEEE Ireland's main contractor KMK Metals Recycling has made WEEE available to preparation for reuse organisations at its core hub and recycling facility in Tullamore Co Offaly on behalf of the Scheme throughout 2019.

Information for recyclers

The I4R platform provides treatment and recycling facilities and preparation for re-use operators with access to WEEE recycling information in line with the requirements of Directive 2012/19/EU. This innovative platform was developed by the WEEE Forum and EERA in partnership with APPLiA and Digital Europe.

In an attempt to respond to recyclers' quest for information about the presence of materials and components in e-waste that require separate treatment, Producers and Producer responsibility organisations teamed up to create "Information for Recyclers - I4R", a unique one-stop source platform aimed at providing a whole range of information and guidance on how to handle WEEE.

The I4R platform helps to better inform managers in the recycling and preparing for re-use industry and to train workers on safety issues. By providing information at product group level, I4R helps recyclers to optimise sorting where applicable. It also allows e-waste recyclers and preparing for re-use organisations to access information about the presence and location of materials and components that need separate treatment.



I4R not only creates added value for recyclers and the industry, but also for citizens. It is a textbook example of industries teaming up to contribute to the creation of a Circular Society, this time by supporting recycling and secondary raw material recovery.

Article 15 of Directive 2012/19/EU on WEEE requires Producers of electrical and electronic equipment (EEE) to provide information free of charge about preparation for re-use and treatment for each type of EEE placed on the market. In 2005 APPLiA (formerly known as CECED) and DIGITALEUROPE, speaking for manufacturers of home appliances and ICT and consumer electronics, and the electronics recyclers at EERA reached an agreement on the format of this information. Since then, manufacturers have been collecting the information in a harmonised reporting format for each product on their website.

Research and Development

WEEE Ireland has a funding arrangement with the EPA on behalf of Members to advance R&D and policy development in the national WEEE System through the STRIVE research programme. Projects to date include Revolv, ColectWEEE and Indium Recovery. Projects to be published in 2020 include TriReuse and EEE2WEEE.



Case Study: ReVolv

A partnership of researchers, recyclers and engineers have united their expertise to solve the LCD (Liquid Crystal Display) stockpiling issue in Europe. A commercial full-scale unit has been developed across a three-year Eco-innovation project called by a consortium led by Votechnik and the University of Limerick, including WEEE Ireland and the WEEE Forum. The technology is now employed at KMK Metals Recycling plant in Tullamore recycling FPDs for WEEE Ireland with a newly improved prototype being deployed in 2020.

Resource Efficiency

WEEE Ireland's active Membership of the WEEE Forum centre of excellence continues to support Circular Economy projects including:

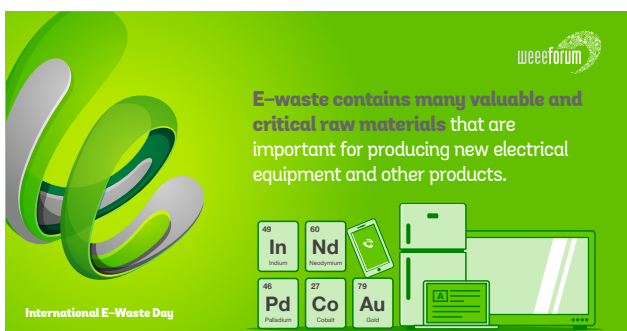
WEEELABEX Standards

Certified quality recycling of WEEE recovers different resources for use again in manufacturing. As a founding Member of the WEEELABEX organisation WEEE Ireland with our WEEE Forum colleagues has helped deliver a series of quality treatment standards which formed the basis for the new CENELEC EN 50625 series. The WEEELABEX organisation continues to train auditors and operators in Europe to manage e-waste to the highest standard and advising countries newly developing their WEEE management systems.



ProSum Project

The ProSUM project delivered the First Urban Mine Knowledge Data Platform, a centralised database of all available data and information on arisings, stocks, flows and treatment of waste electrical and electronic equipment (WEEE), end-of-life vehicles (ELVs), batteries and mining wastes.



ORAMA

ORAMA (Optimising quality of information in Raw Materials data collection across Europe) seeks to take the results of ProSUM to the next level, allowing the Producer responsibility organisations in the WEEE Forum to better compare collection data across Europe.



C-SERVEES

C-SERVEES aims to boost a resource-efficient circular economy in the electrical and electronic equipment (EEE) sector through the development, testing, validation and transfer of new Circular Economy Business Models based on systemic eco-innovative services that include: eco-leasing of EEE, product customization, improved WEEE management and ICT services to support the other eco-services. ICT tools will be developed as the driver of the proposed eco-innovative services to take full advantage of the potential and synergies of two major revolutions of our time: the circular economy and the Industry 4.0.





Financing Extended Producer Responsibility



“Member States shall ensure that Producers provide at least for the financing of the collection, treatment, recovery and environmentally sound disposal of WEEE from private households that has been deposited at collection facilities...”

WEEE Directive 2012/19/EU

WEEE Ireland invoices Producers directly to meet their financial obligations under the WEEE and Battery Regulations in Ireland. Details of the applicable fees for WEEE Ireland Members to support their Extended Producer Responsibility (EPR) are provided to Producers on application to the Scheme and during the annual renewal of details. Fees are agreed 1 year in advance by the Board of Directors subject to market conditions and contingent events and discussed at an annual Members' Fees Briefing event.

Producers report online each month to the Producer Register Ltd Blackbox. WEEE Ireland provides fee calculation details to the Blackbox which are calculated against each submission. Invoicing information pertaining to B2C EEE and Battery reporting is provided to the Scheme for its list of Members each month. Accuracy of submission is extremely important to both Producers and the Scheme in the calculation of fees.



Fee Types

Joining Fee

WEEE Ireland charges a once off joining fee to Producers when they sign up to the terms and condition of Membership of WEEE Ireland. Applications are submitted online and to facilitate a cost effective and efficient system the Scheme sends out its Rules of Members contract and direct debit forms online for digital signature.

Annual Membership Fee

An Annual fee is charged for each year the Producer has applicable obligations under the WEEE and/or Battery Regulations in Ireland. Each year, Members are obliged to renew their Membership with WEEE Ireland and update their company details and contact information through an online form. The Annual Fee is invoiced when Members renew during Q1 each year.

Joining and Annual Fees are determined by the details provided by new and existing Members during the online Membership Joining and annual Renewal process. Discounts are available to Producers with smaller turnovers and to all Members who sign up to direct debit payments

Electronic Electrical Equipment (EEE) & Battery Fees

Each month Members must report online the units and weights of EEE and weights of batteries they placed on the market in Ireland as a Producer to the Producer Register Ltd Blackbox. The Environmental Management Costs will vary depending on the category of EEE or Battery chemistry type reported and may be charged by weight or unit. Most categories operate a Pay As You Go (PAYG) model which means that the Producer pays for the cost of recycling when they place the EEE on the market.

Compliance Management Costs (CMCs)

Certain subcategories operate a Pay As You Takeback (PAYT), which means the Member pays a compliance only fee when they place the product on the market. They then pay the full recycling cost when the WEEE/Batteries are taken back, for example heavy weight long life lithium batteries used in electric cars or some storage applications. Industrial and Automotive lead acid batteries are also subject to CMCs.

Visible Environmental Management Costs (vEMCs)

Some EEE products have a visible fee which is shown to the customer in addition to the RMCs. The vEMCs have been approved by the Producer Register Limited (PRL) to assist in the funding of stakeholders involved in the direct take back of EEE and a contribution to the EPA. The vEMCs and details of all EEE categorisation in Ireland are published in the Producer Register Ltd Category listing available on their website www.Producerregister.ie

Recycling Management Costs (RMCs)

Non-visible Recycling Management Costs (RMCs) are agreed by the Board of Directors and applicable across most subcategories of B2C reported EEE (household and dual use devices) and Batteries.

Transparency

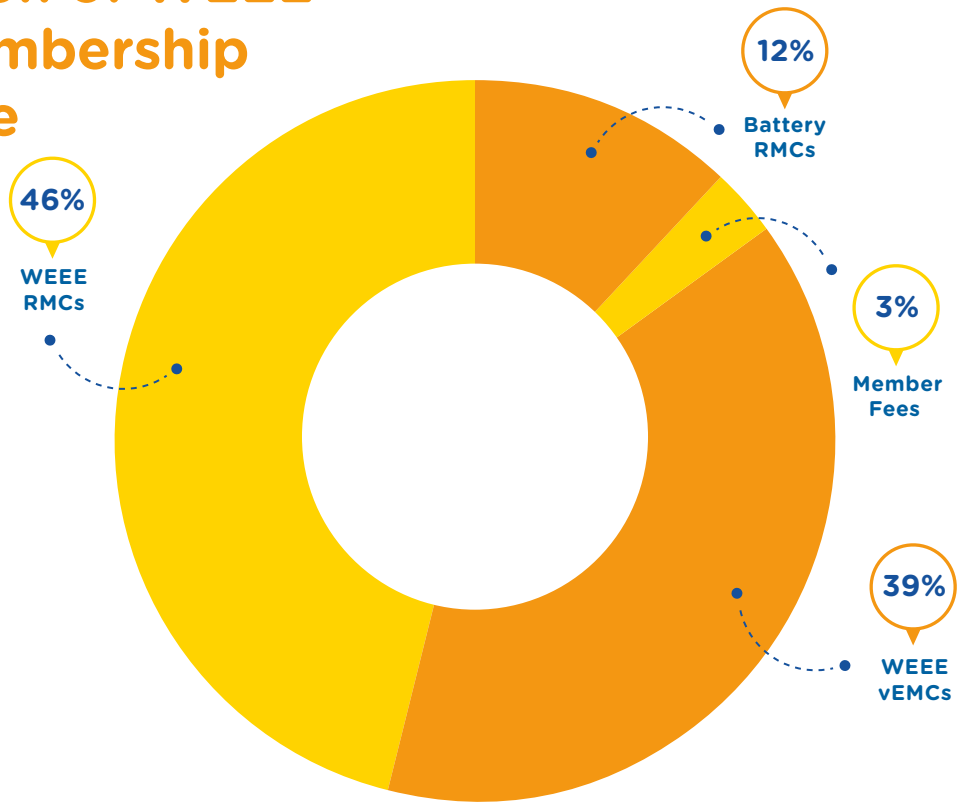
WEEE Ireland publishes a detailed financial report to its Members distributed in advance of the Annual General Meeting. An extensive financial report is supplied to the DCCAE each year as part of the Scheme's Approval criteria. WEEE Ireland maintains divisional accounts to support separation of sector income across the WEEE categories and between WEEE and Battery expenditure. The required accounts are filed with the CRO in accordance with company law following an independent audit each year. An annual Fees Briefing reviews sector specific expenditure and challenges with Members, and gathers feedback on the proposed fees for the subsequent years.

Cooperation Agreements

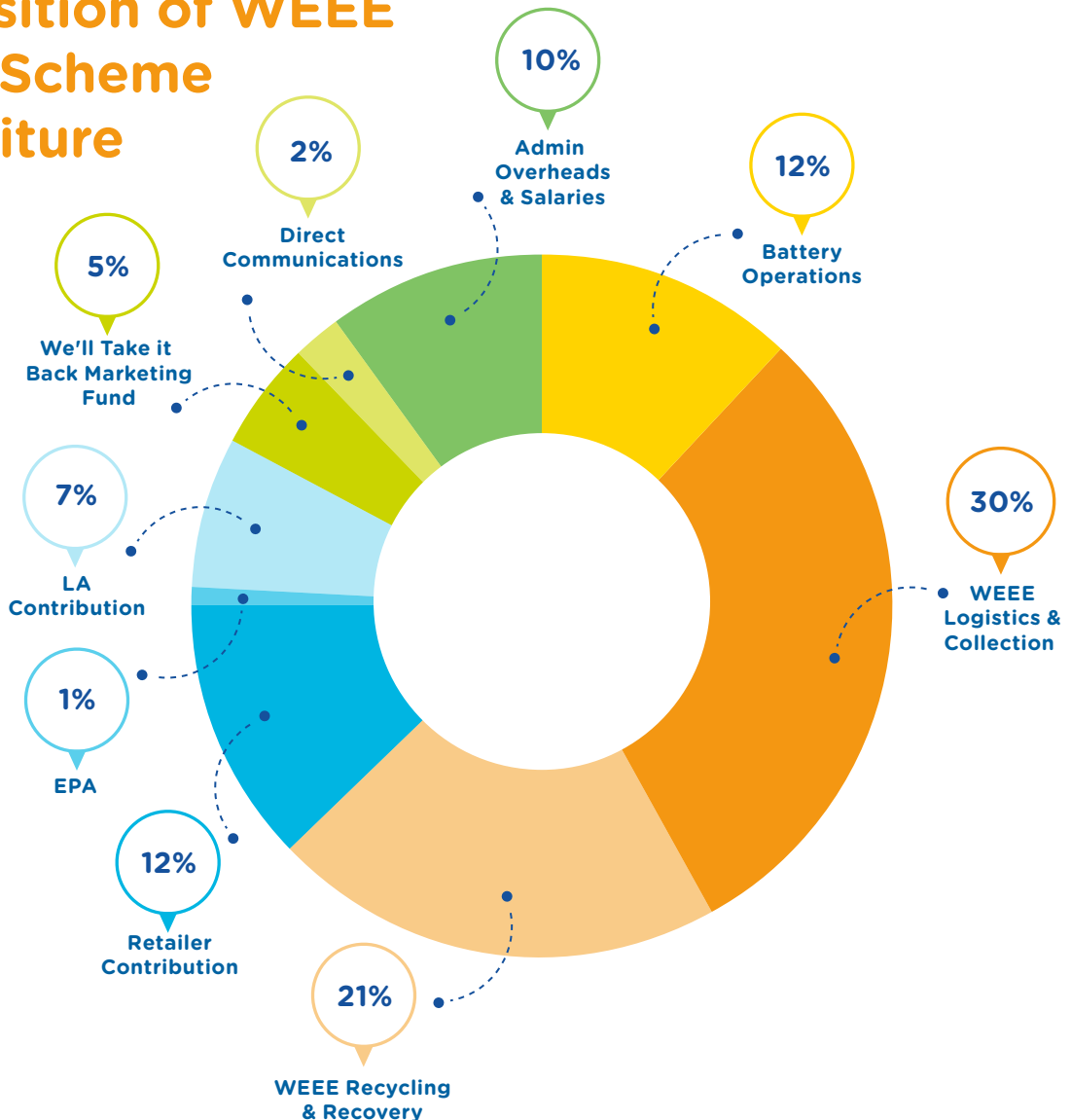
In 2014 the new WEEE Regulations included provision for visible EMCs as well as cooperation agreements for WEEE Schemes to contribute to stakeholder costs. The Scheme is mandated under its Approval to provide funding to Electrical Retailers and Local Authorities to support their roles as WEEE collection points. WEEE Ireland also contribute to the We'll Take it Back Retailer Marketing fund. Funding is also provided to the Environmental Protection Agency to support their enforcement, research, and development programmes.



Composition of WEEE Ireland Membership Fee Income



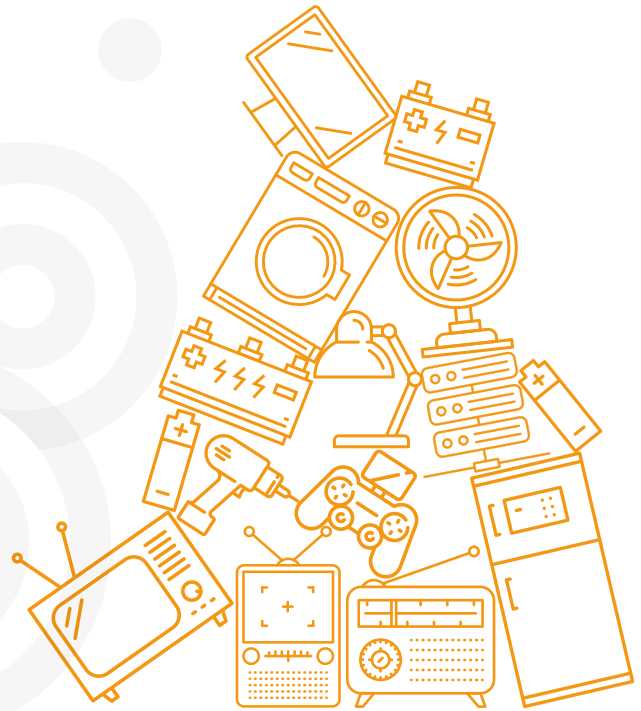
Composition of WEEE Ireland Scheme Expenditure



WEEE and Battery Costs

The core of WEEE Ireland's expenditure is the environmental management of the waste streams on behalf of Producer Members. The provision of infrastructure and careful route planning to efficiently manage takeback along with contract management is overseen by the WEEE and Battery Operations Teams at WEEE Ireland. Quality treatment supports resource efficiency, it ensures hazardous materials are managed and resources recovered. Transport and insurance costs increased in 2019 impacting expenditure by the Scheme along with recoverable resources pricing.

The Scheme is also mandated under its Approval to spend significant amounts on communication programmes to promote awareness of the WEEE and Battery recycling and recovery messages to its Members, stakeholders and the public.



Future Financing

WEEE Ireland is operating under a 7-year financial model until June 2021 as agreed under its current Approval by DCCAE and with the industry. The cessation of the current model will coincide with new requirements to be developed for eco modulation of EPR fees in Ireland.

WEEE Ireland supports the continuation for a visible fee option for suitable products to support a sustainable financing model including partnership programmes and high-quality treatment options which help to achieve all mandated targets.

A visible fee option which incorporates eco modulation can bring wider awareness to the supply chain and end users on environmental criteria and incentivise Producers to continue with positive environmental product supply.



“

Criteria underpinning the modulation of fees must be harmonised at EU level and coherent with existing EU legislation and related European and international standards...

Modulated fee criteria should be simple, auditable and enforceable as well as enforced...

Modulated fees criteria must be defined in close consultation with the relevant stakeholders, and in particular, with Producers.¹⁸”

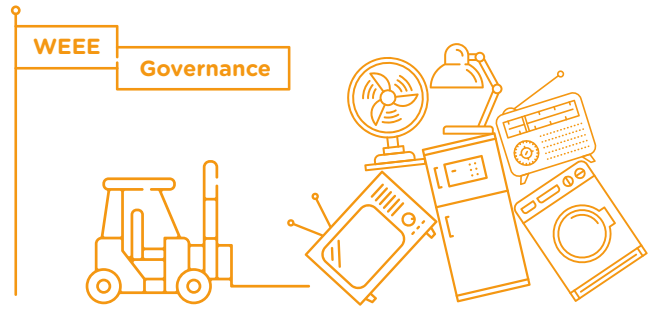
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¹⁸ https://WEEE-forum.org/wp-content/uploads/2019/07/joint-industry-comments-on-modulation-of-Producers-financial-contributions-for-WEEE_2019_07_25_final.pdf

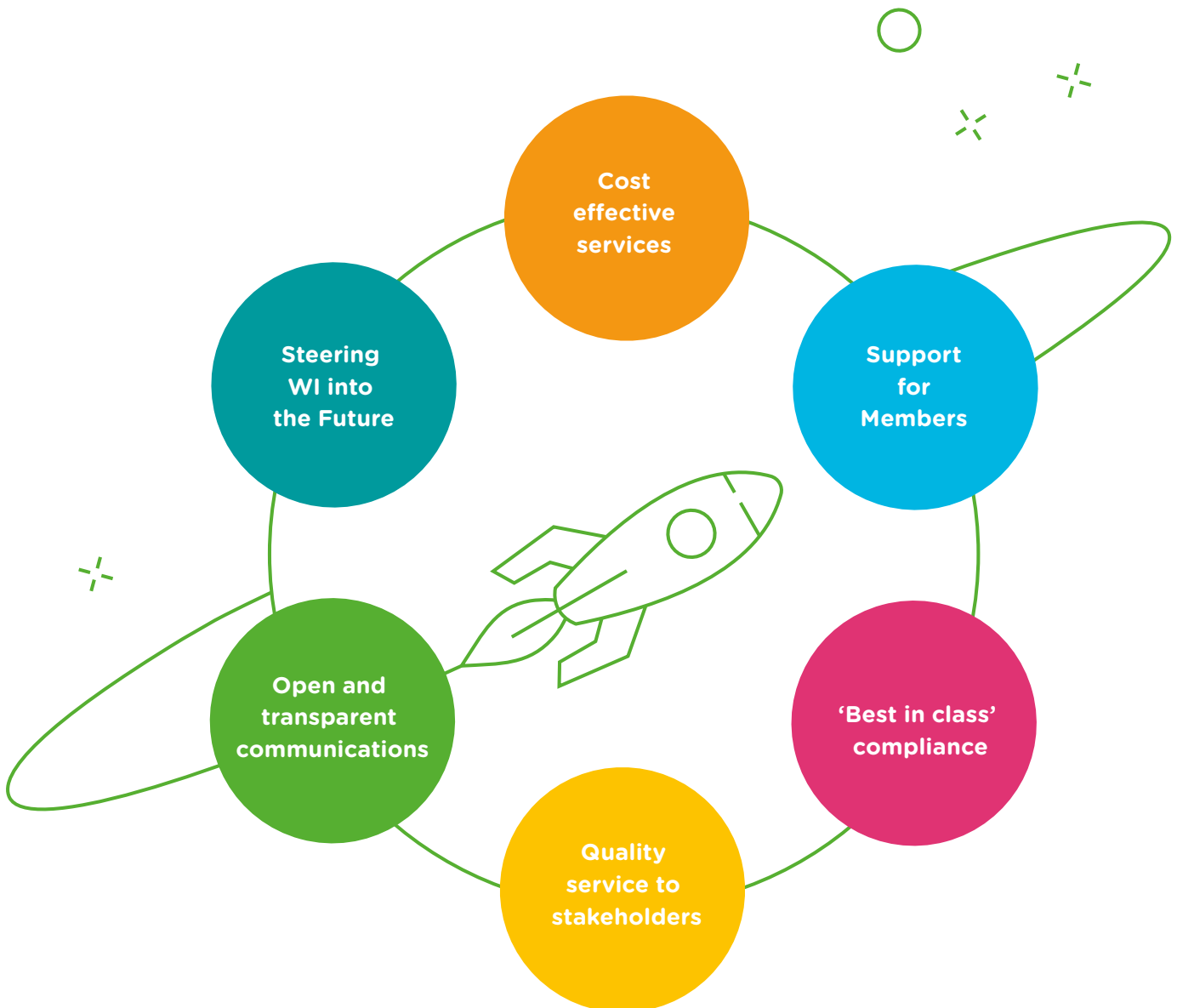
Governance

WEEE Ireland is a not for profit organisation, limited by guarantee, owned by its Members, committed to delivering cost effective compliance on behalf of its Producer Members. The governance structures ensure that the Scheme achieves its strategic goals while meeting all relevant regulatory requirements as laid out in the WEEE and Batteries Regulations and Scheme’s Approval.



The Scheme’s Financial Audit was successfully undertaken by the independent external auditors in April 2020 and financial statements for 2019 will be filed within the CRO time guidelines.

In line with corporate governance policy and Scheme Approval, WEEE Ireland operates a ‘term-of-office rotation’ system for Directors, along with controls on sector and independent representation to support the oversight function of the Board of Directors.



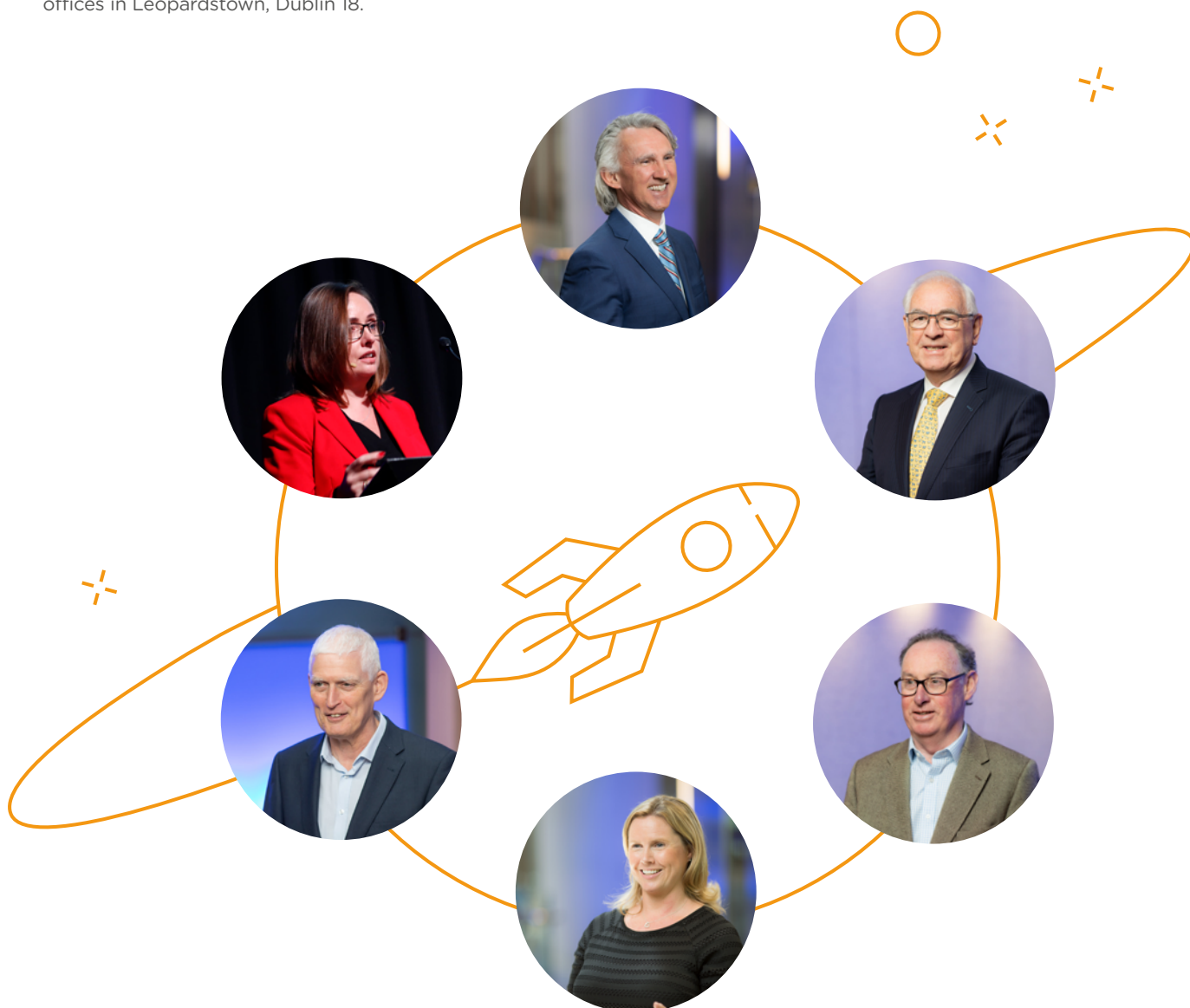
Company Officer Meetings

There were four meetings of Board of Directors in 2019 with 90% attendance throughout the year. The Board of Directors held an additional Strategy Meeting in May. Additional ad hoc meetings were called on special topics as required throughout the year. The finance committee met on twelve occasions and two procurement committee were held to support the contract and tender functions.

Two Battery steering committee meetings were held along with a site visit to the KMK Battery Sorting Plant in Tullamore in September.

In October a pre-conference breakfast briefing, for Members only, was held in Dublin to present the proposed fees for 2020 and discuss fee projections for future years.

The WEEE Ireland AGM was held on **Wednesday 19th of June 2019** at WEEE Ireland's offices in Leopardstown, Dublin 18.



2019 WEEE Ireland Board of Directors



Mr Thomas Barillot

Role: Director
 Appointed: May 2015
 Company: Apple Distribution International
 Representing Category: IT&T, CE, Batteries
 2019 Committee: Batteries

Mr Richard Broderick

Role: Director
 Appointed: June 2017
 Company: Independent (WGA)
 Representing Category: LHA
 2019 Committee: Procurement

Mr Leo Donovan

Role: Director / CEO
 Appointed: 2005
 Company: WEEE Ireland
 2019 Committee: Finance, Procurement

Mr Declan Moylan

Role: Director / Chairman 2017
 Appointed: Jan 2016
 Company: Independent
 Representing Category: Independent

Mr Johnny Dunne

Role: Director
 Appointed: June 2017
 Company: Glen Dimplex
 Representing Category: LHA, SHA, SME

Mr Brian Flood

Role: Director
 Appointed: June 2017
 Company: Origo Ltd
 Representing Category: SHA, Tools, Batteries, SME
 2019 Committee: Procurement

Ms Aine Higgins

Role: Director
 Appointed: June 2018
 Company: Siemens Ltd
 Representing Category: IT&T

Mr Fergus Johnston

Role: Director
 Appointed: June 2017
 Company: Whirlpool Ireland Appliances
 Representing Category: LHA

Ms Niamh Laing

Role: Director
 Appointed: June 2016
 Company: Panasonic Marketing Euro
 Representing Category: LHA, CE, Batteries
 2019 Committee: Finance

Mr Cel O'Reilly

Role: Director
 Appointed: June 2005
 Company: Independent (Lighting)
 Representing Category: SHA, LE, Batteries
 2019 Committee: Finance, Procurement

Mr David Tyrrell

Role: Director
 Appointed: March 2017
 Company: Independent
 Representing Category: Independent
 Committee: Procurement

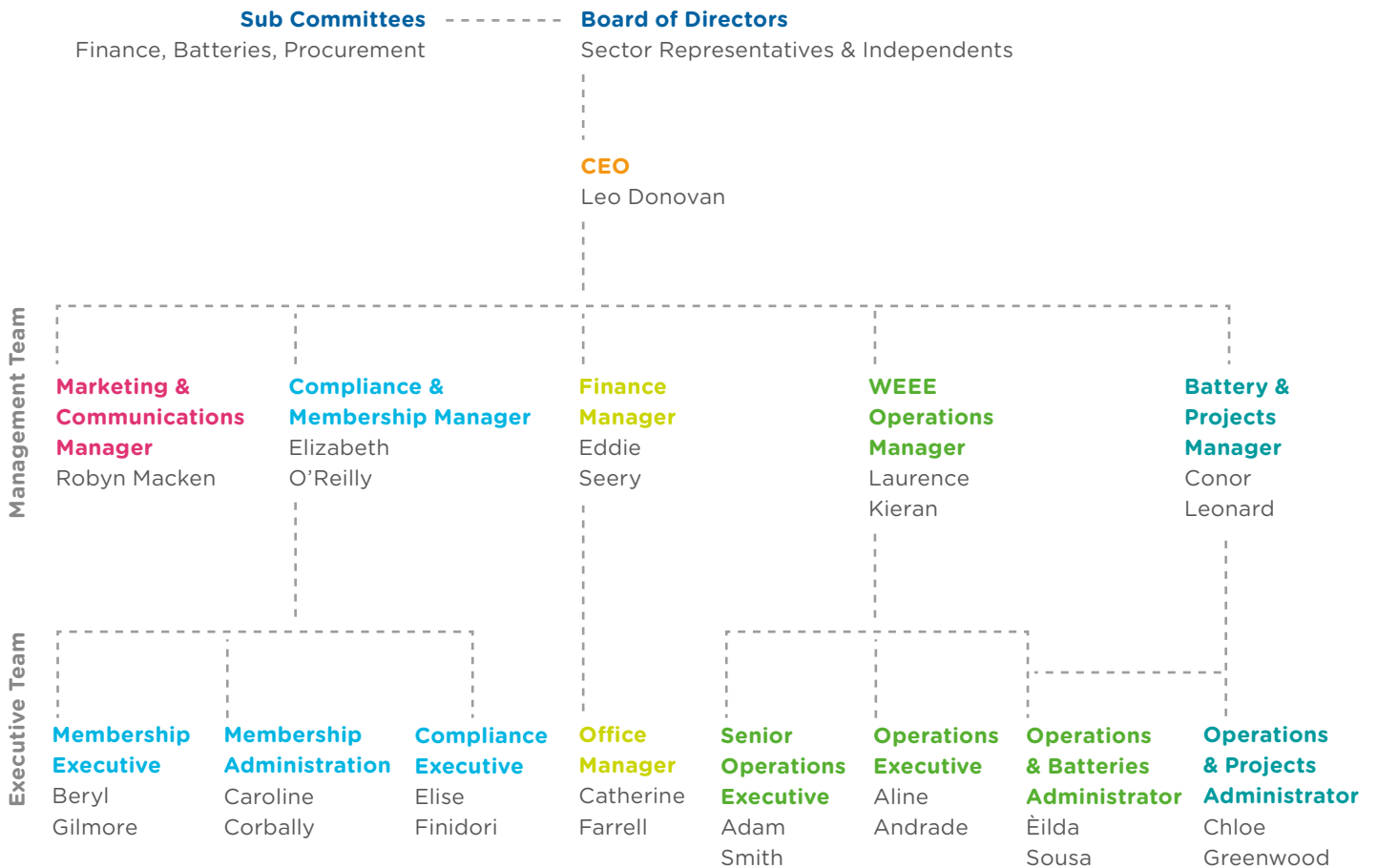
Mr Herbert Sharkey

Role: Director
 Appointed Jan 2018
 Company BSH
 Representing Category: LHA, SHA
 2019 Committee: Finance



Professional Team

The WEEE Ireland team is dedicated to delivering excellent service on behalf of its Producer Members. The team brings together a varied set of skills to coordinate the various operational aspects of the Scheme. The team operates from its base at the WEEE Ireland's offices South County Business Park in Leopardstown, Dublin 18.



Appendices



Appendix I

WEEE Ireland Partners 2019

WEEE Ireland Direct Recycling Contractors	Location	Key Operating Area
KMK Metals Recycling ¹⁹	Tullamore, Co Offaly	WEEE & battery collection & recycling
Irish Lamps Recycling ²⁰	Athy, Co Kildare	Nationwide lamp collection & recycling

Logistics & Hub Contractors	Location	Key Operating Area
Caulfield Transport	Little Island, Cork	WEEE collections
Newsread	Citywest, Dublin	Battery merchandising & collections
Recycle IT	Clondalkin, Dublin	Social Enterprise, Kerbside collection, Dublin area

Pilot Programme Partnership	Location	Key Operating Area
Wisetek ²¹	Dublin Hill, Cork	IT & T

Appendix II

B2C WEEE Takeback Rate WEEE Ireland 2019

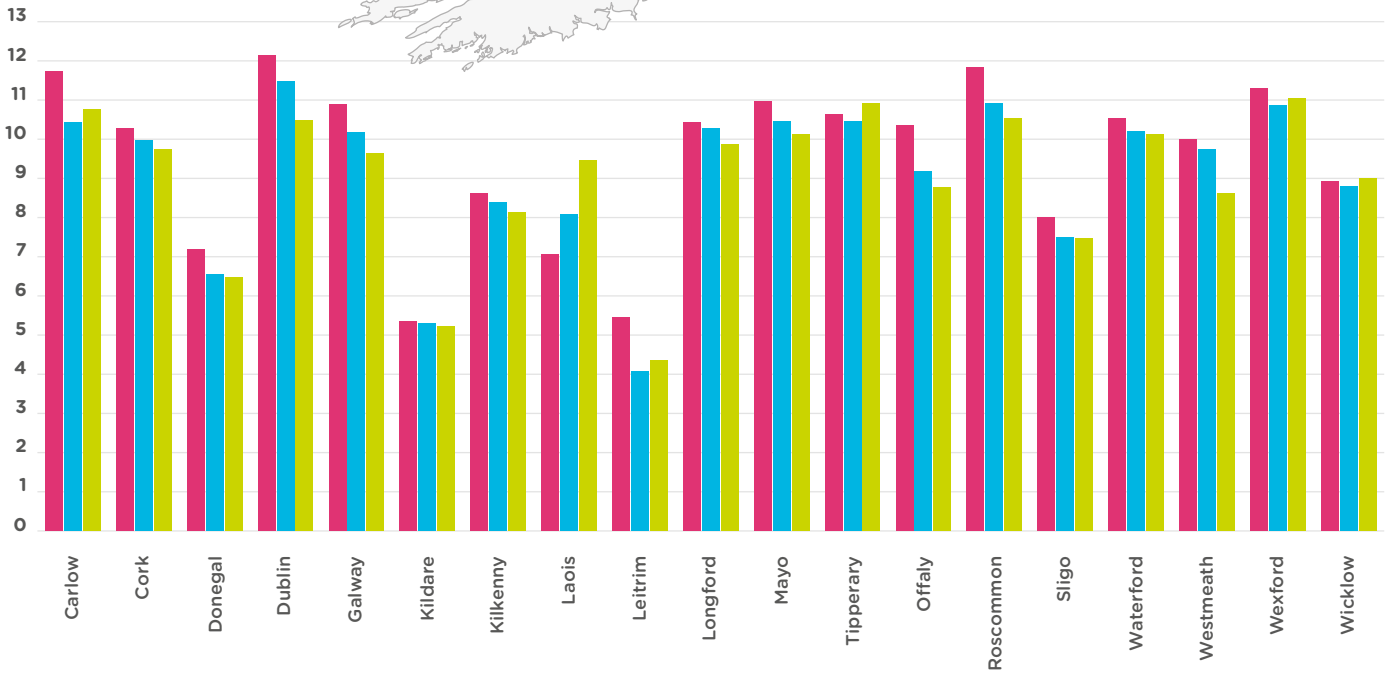
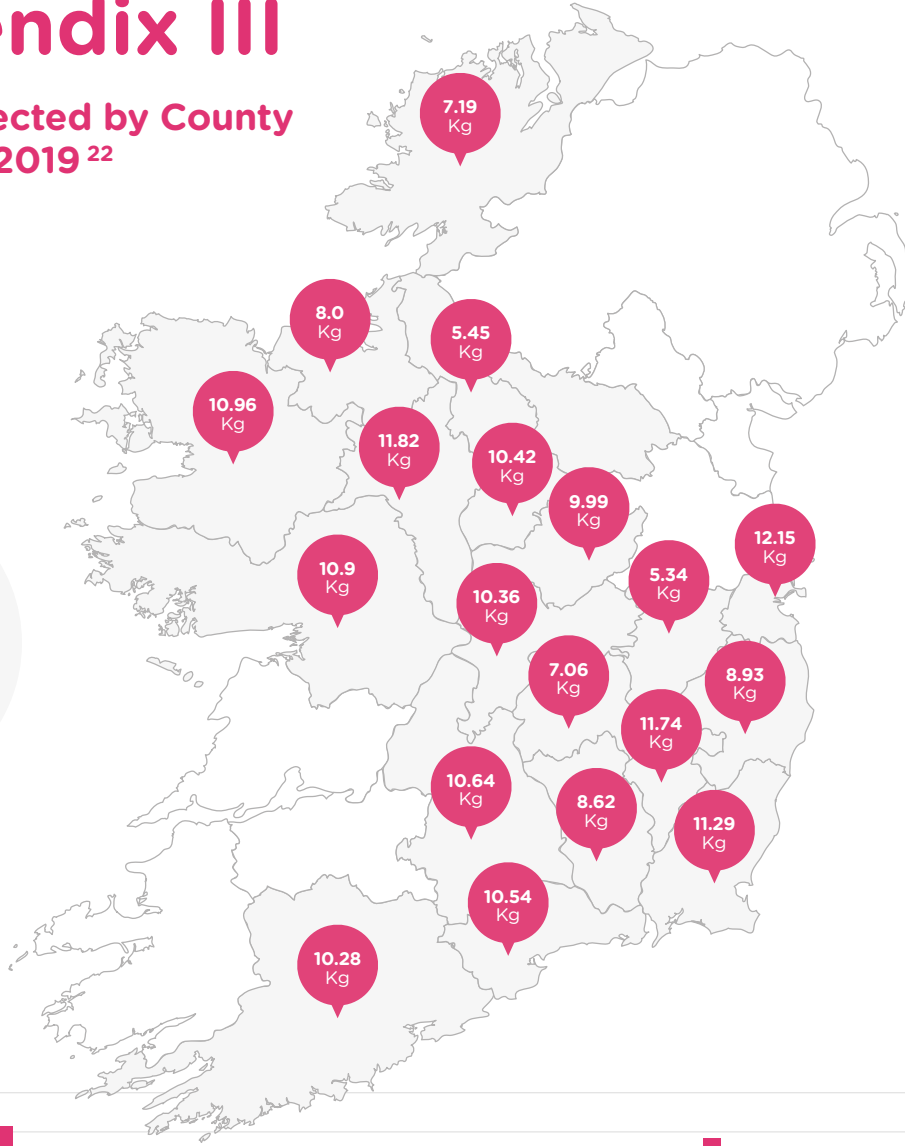
Category	Description	POM 2016 Tonnes	POM 2017 Tonnes	POM 2018 Tonnes	B2C Takeback 2019 Tonnes	Avg WI % Takeback 2019 %
1	Fridge Freezer	8,362	8,936	9,654	6,040	67.2%
1	LHA	22,822	26,240	26,575	18,246	72.4%
2	SHA	6,412	5,646	6,015	2,429	40.3%
3	ITT	2,891	2,601	2,845	2,182	78.5%
3	Mons	538	592	722	343	55.6%
4	CE	3,084	3,158	3,060	2,478	79.9%
4	TVs	2,124	2,481	2,814	3,160	127.8%
5	Lamps	1,542	2,010	1,946	431	23.5%
5	Lums	2,648	2,649	2,249	1,521	60.5%
6	Tools	3,048	3,162	3,553	1,587	48.8%
7	Toys	1,976	1,966	1,746	152	8.0%
8	Cat 8	104	93	123	1	0.9%
9	Cat 9	282	332	488	21	5.7%
10	Cat 10	27	28	30	3	10.6%
	Total	55,860	59,894	61,820	38,594	65.2%

Collection rate is calculated as a percentage of WEEE taken back for recycling compared to the average weight of EEE placed on the market in the preceding 3 years

¹⁹ Certified to WEEELABEX quality treatment standard
²⁰ Certified to WEEELABEX quality treatment standard
²¹ Certified to WEEELABEX quality treatment standard

Appendix III

WEEE Collected by County kg/person 2019²²



10.89 Kg

WEEE Ireland Average 2019

10.2 Kg

WEEE Ireland Average 2018

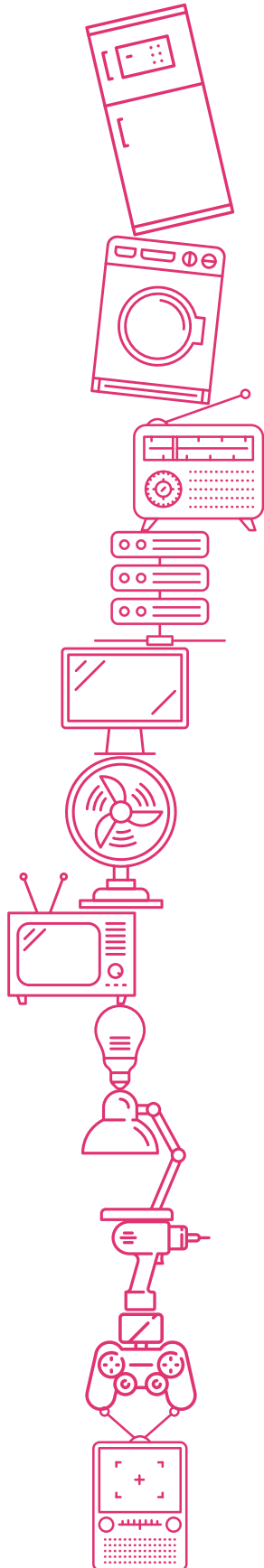
10.08 Kg

WEEE Ireland Average 2017

■ 2019 Collection Rate kg/person
■ 2018 Collection Rate kg/person
■ 2017 Collection Rate kg/person

²² Population within WEEE Ireland Collection area based on 2016 Census www.CSO.ie

Appendix IV - Member Listing 2019



3M Ireland Ltd.
A. Hartmann & Son Ltd
A.J.M. Multiple Services
A.R.O'HARE & CO LTD
AB Power Systems Ltd
Abacus Systems & Networks Ltd.
Abbott Laboratories Ireland Ltd.
ABC Abrasives Ltd.
Abundantia Ltd
ACCU-SCIENCE IRELAND LTD
ACEC Distributors Ltd
Acoustic Technologies Ltd
Actavo Group (Ireland) Limited
Action Alarms Ltd
Active Energy Control Ltd
Adidas (Ireland) Limited
ADT Fire & Security Limited
AEF Limited
Aereco Ltd
Agfa HealthCare NV
Agfa NV-Ireland Branch
Agilent Technologies Ireland Ltd
AGRI HEALTH LTD
Ailesbury Commercial & Industrial Security Ltd
Airmount Beauty
AKH Concepts Limited
Alavina Investments Ltd
Alcon Eye Care UK Ltd
Aldi Stores (Ireland) Limited
All Water Systems Ltd.
Allegro Ltd.
Allied Imports Ltd.
Alumina Lighting Ltd
AM Dunne & Son Ltd
Amazon EU Sarl
Ambassador Communications Ltd
American Video Equipment (Europe) Ltd
Amway (UK) Ltd
Analab Analytical Laboratory Supplies Ltd
Anixter Distribution Ireland Ltd
Anker Technology (UK) Ltd
Ann Summers Ireland (retail) Ltd
Anthony Tully Components Ltd
Anveck Ltd.
Apple Distribution International
Appleby Jewellers Ltd
Appliance House Ltd
ARA MOTORS AZRB LTD
Arc Tec Welding Ltd
Arco Safety Limited
Ardam Ltd
Ardilaun Electrical Services Ltd

Appendix IV – Member Listing 2019

Argos Distributors (Ireland) Ltd	Beechill Enterprises Ltd
Arista Networks Limited	Beko plc
Arjo (Ireland) Ltd	Bellew Electrical Ltd
ARKPHIRE IRELAND LTD	Beltronics Computers Ltd
Armalou Limited	Bering Time ApS
Armstrong Electronics Limited	Berkel Ireland Limited
Arrow Central Europe GmbH	Better Energy Management Ltd
Arrow Emergency Lighting Ltd	Bewleys Limited
Ash Technologies Ltd.	BHC Distributors Ltd
Ashgrove Interparts Ltd	Billy Moran & Son's Ltd
ASOS.com Limited	bioMérieux UK Ltd
ASSOCIATED HARDWARE PLC	Bio-Sciences Limited
Atlantic Home Care Ltd	Black Diamond Equipment Europe GmbH
Atlantic Surgical Ltd	BLUESTONE SALES & DISTRIBUTION LTD
Audi-Lab Hearing Specialists	BMW Automotive (Ireland) Ltd
Aurora Lighting Ltd	BNR LTD
AUTO DIESEL ELECTRIC LTD	BOC Gases Ireland Ltd
Automated Technical Controls Ltd	Bodel Distributors Ltd
Automatic Identifications Systems Ltd	Boland and Walsh Car Sales
Automation Supplies Ltd	BOOSTED, INC.
Automobile Power Ltd	Bord Gáis Energy Ltd.
AVA Systems Ltd	Bose SMS Ltd
Avaya International Sales Ltd	Box Ltd
Avcom Audio Visual Communications Limited	Boxine GmbH
AVONMORE ELECTRICAL CO LTD	BP MULTIPAGE LTD
Azette Ltd	Brainlab Sales GmbH
B S Lewis Limited	Brand Addition Ireland Ltd
B&G LTD	Brandon Marketing Ltd.
B&Q Ireland Ltd	BRETT SUPPLIES LTD
B&R Industrial Automation Ltd	Brighter Image Ltd
B&W Group Ltd	Britelux Lighting Limited
B. Braun Medical Ltd	British Telecommunications Plc
Balsam International Unlimited Company	Broadcast Technical Services Ltd.
Bamed AG	Brother Ireland DAC
Banaghan & Co. Ltd	Brown Thomas & Co Ltd
BARB ELECTRICAL CO LTD	BSH Home Appliances Ltd
Barco N.V.	BT Communications Ireland Limited
Bard Limited	Burke Bros Son & Co. Ltd
Barker Photographic Ltd	Bushell Interiors Ltd
Batteryman Distribution Ltd	Business Electronic Equipment Ltd
Bayer Ltd.	Buy It Direct Ltd
BBikesIreland	Byrnes Electrical Wholesale Ltd
BD Enterprises Ltd	C&F Quadrant Ltd
Beam Vacuum Systems Ltd	C. & J. CLARK INTERNATIONAL LIMITED
BEAUMEX UNLIMITED COMPANY	C. Josef Lamy GmbH
Beauty Features Limited	CAB Motor Company Ltd
Beauty Savers International Ltd.,	Cailin Celtic Jewellery Ltd
Bechtle Direct Ltd	Calpeda Pumps (Ireland) Ltd
Beckman Coulter Diagnostics Ltd	Camsaw Distributors Ltd
Becton Dickinson U.K. Ltd	CANON EUROPA N.V.
Bedrock Manufacturing Europe B.V.	Canon Ireland Business Equipment Ltd
Beechfield Healthcare Ltd	Capital Water Systems Ltd

Appendix IV - Member Listing 2019

Capralux Ltd.
CapsuleTech SAS
Card Factory Ireland Ltd
Cardiogenics Ltd
Cargotec Ireland
Carnival Corporation
Carnival Trading Company Ltd
Carr Sewing Machines Ltd
Casa Maria
CASSIDY ELECTRICAL SUPPLY CO.
Castit Limited
CASTLE ELECTRICAL FACTORS LTD
Castle Mechanical Handling Co Ltd
CAULFIELD INDUSTRIAL UNLIMITED COMPANY
CDW-I IT Solutions Ltd
Cell Again Ireland Limited
Celtic Surveys Ltd
CH MARINE LTD
Chadwicks Group
Char-Broil Europe GmbH
Charles Hurst Dublin Ltd
Charlie Shiels Ltd
Chauvet Europe Ltd
Cheetah Electronics Ltd
Chemical Direct Ltd
Chronotherm Controls Ltd
Chubb Ireland
Cisco International Ltd Ireland Branch
Citrix Systems UK Limited
Claire's Accessories UK Ltd
Clardex Systems Ltd
Clarity Computer (Distribution) limited
Classic Hardware Limited
Clifford Electrical Wholesalers Ltd
climote Limited
Clover Germany GmbH
CMS Distribution
Coca Cola HBC Ireland Ltd
Codec-dss Limited
Codex Ltd
COFFEY HEALTHCARE LTD
Cogans Garage Limited
Cognex Ireland Ltd
Coleman Electronics Ltd
Colton Motors Ltd
Combilift Ltd
Component Distributor (CD Ireland) Limited
Comvoc Technologies
Conns Cameras (grafton arcade) Ltd
Convatec Healthcare Ireland Limited
Cook Ireland Ltd
Cooney Electronics Ltd
Corajio Unlimited Company
CORE ELECTRICAL LTD
Corkery Dowd Ltd
Corry's Ironmongery Limited
Costard Investments Ltd
Covaris Ltd
CPG Media Ltd
Craig Matthews T/A Valuecoms
Crean Solutions Limited
Creative Retail Distribution
CRQ Limited
Crunchy Crew Ltd
Crystal Media Ltd.
CTS Systems
Cucina Ltd
Current Lighting Limited
Curvature LLC
Cycle-Union GmbH
Cylon Controls Ltd
D & P Multimedia Products Ltd
D RYAN ENTERPRISES
D.H Meters Ltd
DACTEC Ltd
DAF Distributors Ltd.
Daikin Europe NV
Daktronics Ireland Co. Ltd
DALY INDUSTRIAL SUPPLY CO LTD
Dalys Electrical
Damovo Ireland
Danfay Limited
Darlo Enterprises
Datapac
Davcon Rentals Ltd
David Curran Wholesale
DAVID LOWE AND COMPANY LTD
DBS
Debenhams Retail Ltd
Decdeb Limited
Delaney Interests Ltd
Dell Products Ireland
DEM Machines Ltd.
Demesne Electrical Sales Ltd
Demirca Ltd
DERRYWOOD AGENCIES & DISTRIBUTORS LTD.
Des D'Arcy Motors Ltd
DESIGNLIGHT IRELAND LIMITED
Diebold Nixdorf (Ireland) Limited
Digicom Office Technology Ltd
Digital Media Direct
Direct 2 U Retail Ltd
Direct Medical Ltd
Disruptive Technologies Research AS

Appendix IV – Member Listing 2019

Diversey Hygiene Sales Limited	ELECTROBUY LIMITED
DKA Retail Ltd.	Elite Healthcare Limited
Dominic Fleming Electrical Accessories Ltd	Ember Technologies, Inc.
Domus Projects Ltd	EmCon Systems Ltd
DONAGHEY MOTORHOMES LTD	Emerald Healthcare Ltd
Donaghy Bros	Emerce GmbH
Donegal Commercial Vehicles	Emergency Response Ltd
Doodlehouses Limited	Emerson Automation Solutions Ireland Ltd
Doro AB	Energy Conservation Solutions Limited
Doyle's Garage Courtown Ltd	Energy Monitoring Ireland Ltd
DPP Electronics Ltd	Environmental Monitoring Services Ire Ltd
Drainbo Ireland	EPH Controls Ltd
Draper Tools (Ireland) Limited	E-Pire Limited
DSM Distribution Ltd.	EPT IRL LTD
Dualtron Ltd	EQUIPMENT COMPANY OF IRELAND
Dublin City Cool Ltd	E-TEC Power Management Ltd
Dublin Gas & Electric Ltd	Ethos Technology Ltd
DUNLEAS GARAGE	EURO CAR PARTS IRELAND LTD
Dunnes Stores Unlimited Company	Euro Sales Ltd
DWN Instrumentation Ltd	EURO TREE WHOLESALE LTD
DYSON IRELAND LTD	Eurogeneral Retail Ltd
E Fox Engineers Ltd	Eurogrove Trading Ltd
E MCINTYRE AND SONS LIMITED	Eurolec Instrumentation Ltd
E. J. BODKIN & CO LTD	Europa Battery Distributors Ltd
EA Accessories Ltd	EUROPEAN STOVES & FIREPLACES
EA SYMMONS LTD	Europower DC Ltd
Earthly Emporium	Eve Systems GmbH
Earthridge International Ltd	EW Technologies LTD
Eason LTD	EWL ELECTRIC LIMITED
EAST COAST ALLOYS LTD	Excel Electric Group Ltd
EASYCAM	Excel Plumbing Products Limited
Easytrip Services Ireland Ltd	Exertis Ireland Ltd
Eaton Electrical Systems Ltd	Exertis Supply Chain Services
ECI LIGHTING LTD	Exhale Vapour Ltd
Ecirette Wholesale Limited	Expert Ireland Retail Sales Plc
Eco Vision Ltd t/a Easy Motion	Expert Professional Products Ltd
EDGAR Home GmbH	Exsparetise LTD
Edward Kelly	EXTREME COMPUTERS LTD
Edwards Lifesciences	Extreme Networks Ireland Ops Ltd
eDynamics Ltd.	Fagerhult Lighting Ltd
EET Europarts Ireland Ltd	Fannin Ltd
EEW Ltd	FARNELL COMPONENTS (UK) LIMITED
Effective Distribution Ltd	Fergusons Hearing Aid Clinic Ltd
Egan Electrical Equipment (Ireland) Limited	FG Wilson Engineering (Dublin) Ltd
Eiko Ireland Ltd.	Fiat Chrysler Automobiles Dac
EINHELL UK LTD	Fields Retail Limited
Eircom Limited	Finbarr Galvin Ltd
Electraction Ltd	Finglas Autoparts Ltd
Electramed Ltd	Firemole Limited
Electric Power Tool Co Ltd	Fisher & Paykel Appliances Limited
Electrical Mechanical Controls Ltd	FLACK BROTHERS LTD
Electro Automation	Flaherty Markets Ltd

Appendix IV - Member Listing 2019

Flair Salon Services Ltd
FlaktGroup Ireland Ltd
Fleming Medical Ltd
FLIR Belgium BVBA
FLIR Integrated Imaging Solutions Inc
FLIR Systems Trading Belgium BVBA
Fluence Energy GmbH
Fluidigm UK Ltd
FLUX ELECTRICAL
FMG ELECTRONICS (DISTRIBUTORS) LTD
Fonua LTD
Food Solutions Ltd
Forcefield Active Technology Ltd
Fore Scout Technologies Inc.
FORKLIFT SERVICES AND HANDLING EQUIPMENT LTD
Fossil UK Ltd
Frank Flanagan Fittings Ltd
Freesat
Fresenius Medical Care (Ireland) Ltd
FTI Fire Technology Ireland Ltd
Fujifilm UK Ltd
Fujitsu Ireland
Futura Electronics Ltd
G&M Electronics Sales & Repairs Limited
G.DALTON & CO LTD
G2 Speech Ltd
GALLAGHER POWER FENCE SYSTEMS IRL LTD
Garo Electric Ireland Ltd
Garrabridge Ltd
Gas Networks Ireland
Gavigan Electrical
Gaynor Pearse Motor Factors Unlimited Company
GE Energy (Ireland) Ltd
GE Healthcare Ireland Limited
GE Medical Systems Ireland Ltd
GE Sensing EMEA Unlimited Company
Gear4music Limited
Geary's Garage Ltd
General Electric Global Services GmbH
Genfitt Mayo Ltd
Gerry Cumiskey Ltd.
Gerry Matthews Engineering Ltd
Gersan Services Ltd
Getinge Ireland Ltd
GHO Distribution Ltd.
GKRT LTD
Glamox Ireland Ltd
Glen Dimplex Heating & Ventilation Ireland UC
GLEN DIMPLEX IRELAND UC
Glenkrag Ltd
Global Village (Dublin) Ltd
Globalstar Europe Satellite Services Ltd
GN Hearing Uk Ltd
GoBeyond Ltd
Goldcrop Limited
Google Commerce Limited
Gosecure Ltd
Gowan Distributors Limited
Gowan Motor Retail Group Ltd
Grandon Car Sales Ltd
Grant Car Care Ltd
Grant Engineering Ireland ulc
Graseby Medical Ireland Ltd
Great Island Motors Ltd
Green Coffey Technology Ltd
Green Connection
GreenAer Mobility Ltd
GreenDisti Ltd
Groupe SEB UK Ltd
Hafele Ireland Ltd
Hager Ltd
Hahnel Industries Ltd
HappyOrNot Ltd
Harken Time Solutions Ltd
HARVEY NICHOLS (DUBLIN) LTD
HARVEY NORMAN TRADING (IRELAND) LTD
Heating Shop Ltd
Heatons
Henley Forklift Group Ltd
Henry Ford & Son Ltd.
Henry Schein
HER Photo Supplies Ltd
HERCULES GmbH
HERRON AND SON LIMITED
HHGL (ROI) Ltd
Hi Fidelity AV Ltd
HiFi-Tower Limited & Co. KG
Highcove Unlimited Company
Highway Wholesalers Ltd
Hijack Tools Ltd
Hill-Rom Ltd
Hilti (Fastening Systems) Limited
Hitachi Europe Ltd
Hitechniques Ltd.
HI-VOLT IRELAND LTD
Home Appliances Unlimited Company
Home Health Care Ltd.
HomeBots
Homecare Medical Supplies
Homesecure
Honeywell Control Systems Limited
HOOVER LIMITED
Horizon Safety Systems Ltd
Hornibrooks Garage Lismore Ltd

Appendix IV – Member Listing 2019

Hospital Services Ltd	Jack Sleator Motors Ltd
Hot Water Control Ltd	James A Barry & Company
Huawei Technologies (Ireland) Co. Ltd	Java Instruments Technologies Ltd
HUBER+SUHNER (UK) Ltd.	JBG Office Pro Ltd
Hubris Ltd	JDM Eastgate LTD
Hugh Boggan Motors Limited	JDM Products Ltd
HUGH JORDAN & COMPANY LTD	Jeffers Music Company Ltd
HUGO LOONAM MOTORS LTD	JH DONNELLY LTD
Humanscale International Holdings Ltd	Jim Hanley (Farm Machinery) Ltd
Hyundai Cars Ireland	Jinko Solar GmbH
I C Plus	JMN Fire Alarms Ltd
I.M. AUTOMOTIVE LIMITED	JMT Autos
Ian A. Kernohan (N.I.) Limited	Joe Duffy Dun Laoghaire Ltd
IBM Global Financing Ireland Limited	JOE KING BATTERIES
IBM Ireland Ltd	John Bogue Monaghan Limited
ICON Health & Fitness Ltd	John Deere Forestry Limited
ICU MEDICAL U.C	John McCabe Motors Ltd
ifm electronic ltd.	John McKenna Lawnmower Spares
IFS Integrated Fire Solutions Ltd	John Mills Ltd
IKEA Ireland Ltd	JOHN MURPHY (CASTLEREA) LTD
Ille Services Ireland (Ltd)	John Player & Sons Ltd
IM European Motors Ltd	JOHN STAFFORD & SONS (DUBLIN) LIMITED
Imagine Network Services LTD	Johnson & Johnson Ireland Ltd
Impossible B.V.	Josef Kränzle GmbH & Co. KG
IN HAND GUIDES LTD	Joseph Murphy (Ballina) Ltd
In The Market	Jovi International Distribution Ltd
Independent Health Care Service Limited	Joyce's Supermarket Unlimited Company
INDUR (WHOLESALE) LTD	JTI Ireland Ltd
Infinera Corporation	Julius Blum GmbH
INGERSOLL RAND INTERNATIONAL LIMITED	Jungheinrich Lift truck Ltd
Instrument Technology Ltd	JUUL Labs Ireland Ltd
Integral Lighting	JVC Kenwood UK Limited
iINTERACTIVE (IRELAND LTD)	JYSK Ltd
Interaxon IR Ltd	Karcher Ltd
International Trade Craft Laboratories Ltd	Karmarton Ltd
Ion Solutions (EMEA) Ltd.	KCI Medical Ltd
loresource Ltd	Keaney Medical Ltd
Irish Aviation Authority	Kenny Galway Ltd
IRISH COMMERCIALS	Kenwood Limited
Irish Farm & Garden Machinery	Kestra Electroweld Ltd
Irish International Trading Corporation(Cork) PLC	Kestrel Communications Ltd
Irish Security Distributors Ltd	KESWICK ENGINEERS LTD
Irish Soft Drinks Ltd	KEVIN BRODERICK LTD.
iRobot Corporation	Kevin Egan Cars Ltd
Irwin Group Distribution Ltd	KeyMed Ireland Ltd
Iskus Health Ltd	Kia Motors UK LTD
ITC Distribution Limited	Kilkenny Welding Supplies Ltd
J MCQUILLAN SON & COMPANY LTD	Kitchen Accessories Limited
J S Dobbs & Co Ltd	KLA-Tencor Ireland Ltd
J. Choo Limited	KM KS Retail Ltd.
J. Parker Car Sales And Services	Knn Media Limited
JA Solar GmbH	Kodaplay Ltd

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Kohler Uninterruptible Power (Ireland) Limited
Komplett B.V.
König + Neurath AG
Kornit Digital Ltd
KOS Ergonomic Solutions Ltd
KRITMAN COMPANY LTD
Kyron Street Limited
L M Ericsson
Laboratory Instruments & Supplies
Laboratory Supplies Ltd
Labquip (Ireland) Ltd
Lakeland Ltd
Lambrini Ltd
Lamp Source
Lamps & Lighting Ltd
Landis+Gyr Limited
Lapierre SAS
Laztech IT Services Ltd
Leading Edge Marketing & Promotions Ltd
LED Lighting and Electrical Distribution Group
LEDVANCE Benelux B.V. – Irish Branch
LEDVANCE Ltd
Lenovo Global Technology Ireland Limited
Lenovo Ireland Limited
Levelling Equipment Services Ltd
Leydens Limited
LG Electronics UK Ltd
Libelium Comunicaciones Distribuidas S.L.
Lidacel Ltd
LIFFEY DISTRIBUTORS
Lights4fun Ltd
Linde Material Handling (Ireland) Ltd.
LINEHAN CAR SALES LIMITED
LITEHOUSE ACCESSORIES LTD
Livisham Ltd
LR Active Ltd
LumiraDx Ltd (UK)
Lumitech Ltd
Lyncare Ltd
LYNN MOTORS LTD
Lyric Ireland Ltd
M J FLOOD (IRL) LTD
M. Donnelly & Co Ltd
M. KELLIHER 1998 LTD
Mad Bikes Ltd
Made.com Design Limited
Magimix UK Ltd
Magnet Networks Ltd.
Mallows Number 1 Vape Store
Mamas and Papas Retail Ltd
MAN Importers Ireland Ltd.
Manbat Ltd
Manepa Ltd
Manotherm
Maplin Electronics Ltd
Marks and Spencer (Ireland) Limited
Martin-Brower Ireland Ltd
Mason Technology Ltd
Maurice Doody Sales Ltd.
Maurice Dunne Motors Limited
Mazda Motor Logistics Europe NV Ltd
Mc Hugh Components Ltd
McCarthy Commercials Ltd
McDowell & Co. Ltd.
McElligotts (Tralee) Ltd
McGrath Electronic Components Ltd
McHale Plant Sales Ltd
MCK ELECTRICAL LTD
McKechnie Cleaning Services Ltd
MCKEON CONSTRUCTION LTD
MCCLOUGHLIN & SONS HARDWARE LTD
MCQUILLAN WHOLESALE LTD
Medical Supply Company Ltd
Medicare Health and Living Ltd
Meditec Medical Ltd
Medray Imaging Systems
Medtronic Ireland Limited
Melview Motors LTD
Memory Bank Ltd.
Merck Millipore Ltd
Meyer SDA Ireland Limited
Mezwell Ltd
MGI Luxury Group SA
Michael Cummins Automotive LTD
Michael Garry Ltd
Michael guiney ltd
Michael McPhillips T/A Singer Centre Galway
MICHAEL MOORE CAR SALES LTD PORTARLINGTON
Michel Herbelin UK Ltd
Microwarehouse Ltd
Midsummer Renewables Ltd
Miele Ireland Ltd
Mirai Medical Limited
Mitsubishi Electric Europe BV
MK ILLUMINATION IRELAND LTD
MMC Commercials
MMD Distribution Ltd.
Mobile Fashion Ltd
Mobiwire
Mocad Ltd
Modern Plant Ltd
Moduslink BV
MONAGHAN ELECTRICAL WHOLESALE LTD
Monbatt Ltd

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Montara Ltd.
 Mothercare Ireland Limited
 Mothercare World
 Motocaddy Ltd
 Motor Distributors Limited
 MOTOR SERVICES LIMITED
 Mountband Trading Ltd
 Moyne Roberts (Ireland) Ltd
 MP Doyle Group
 MP&E Trading Company Ltd
 MT Agencies Ireland Ltd
 Mullinahone Co-op
 Mullingar Electrical Wholesale Ltd
 MUNSTER FORKTRUCK TRAINING AND SERVICES LTD
 Munster Technology
 Murray Woods Ltd
 Murrays Medical Equipment
 Musco Lighting Ireland Ltd
 Musgrave Group
 Musgrave Retail Partners Ireland Ltd
 Musicmaker LTD
 Musicstore Professional GmbH
 Must Have Gadgets Limited
 MVI Hazel
 MWD ELECTRONICS
 N.A.A. Appliances Ltd.
 N.E.L. (Services) Ltd
 National Association for the Deaf
 NATIONAL ELECTRICAL WHOLESALERS (IRL) Ltd
 NATIONAL INSTRUMENTS CORP (UK) LTD
 National Pen Promotional Products LTD
 Naturalife Health Unlimited Company
 NCR Ltd
 Nespresso UK Ltd
 Nest Labs (Europe) Ltd
 Netwatch Ireland Ltd
 New Era Lighting Ltd
 New Look Retailers (Ireland) Ltd
 Newcastle West Autos Ltd
 Newstyle Hairsalons Unlimited Company
 Next Retail Ltd
 Nextcar Limited
 NIALL STEPHENSON LTD
 Nike Retail BV
 Nike UK - Irish Branch
 Nikon U.K. Limited
 Nilfisk Ltd
 Nisbets Plc
 Nissan Ireland
 NOA mobile Ltd
 Noel F. Kenny Electrical Ltd
 Norso Medical Limited
 Nortev
 Northwood Technology Ltd
 Noviled High Technology Lighting Ltd
 NuLumenTek Ltd.
 Nuwave Sensor Technology Ltd
 O & I Motors Ltd
 O FLYNN MEDICAL LTD
 O Meara Camping Ireland Ltd
 O'Connell Batteries Ltd
 O'Callaghan Leisure
 O'Callaghan's Garage
 O'DONOVAN ENGINEERING CO LTD
 Ogalas Unlimited
 O'Keefes of Kilkenny Ltd
 OKI Europe Limited
 Oktalite Lichttechnk GmbH
 Oliver Geoghegan Car Sales Ltd
 O'NEILLS ELECTRICAL LIMITED
 Opel Automobile Ireland Ltd.
 Openbet Retail Ltd
 Optical Sciences Ireland Ltd
 Oracle EMEA Ltd.
 Orantek Ltd
 Orega Systems Ltd
 Origo Distribution Ltd
 Osram Ltd
 Otter Products EMEA Unlimited Company
 Outdoor Garden Products Ltd
 Oxfam Ireland
 Oxygen-Care Ltd
 PAGL Ireland Limited
 Panasonic Marketing Europe GmbH
 Parma Motors
 Particular Sciences Ltd.
 Passax Business Systems and Supplies Limited
 PAT O'FLYNN SCALES LTD
 PAT RYAN MOTORS
 Patina Lighting Limited
 Paul Sheeran Jewellers (Johnsons Court) Ltd
 PBL Electrical Distributors Ltd
 Pc Pro Computers Ltd
 PC SYSTEMS LTD
 PCMCS Tech Limited
 Peats Wholesale Ltd
 Penta Networks Ltd
 Pepperl+Fuchs Ireland Ltd.
 PerkinElmer (Ireland) Ltd.
 Personal Computer Science (Ireland) Ltd
 Peter Curran Electric Ltd
 Petrogas Group Ltd
 PFH Technology Group
 Phibsboro Electrical Wholesale

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PHILIP GRIFFIN MOTORS LTD
Philips Electronics Ireland Limited
Phoenix Contact (Ireland) Ltd
Phonewatch Ltd
Photo Import Ltd.
PHS West Inc
Pianos Plus
Pinewood Laboratories Ltd
Pingwave Technologies Ltd
Pioneer DJ Europe Ltd
Pioneer Europe NV
Pitney Bowes (Ireland) Ltd
PJ Bonner & Company Ltd
PLATINUM INTERNATIONAL LTD
PNS Ltd
Polydome Ltd
Portwest UC
Potterton Myson Ireland Ltd
Powakaddy International Ltd
Power City
Powerpoint Engineering Ltd
PPG AC Ireland Ltd
Precia Molen Irl Ltd
Premier Farnell UK Ltd
PRESLITE DISTRIBUTION LTD
Primacy Healthcare 21 Ltd
Primark Ltd
PRIMELINE JAYMARK SALES & MARKETING LTD
Production Equipment Ltd.
Professional Audio Ltd
PROFILE EMERGENCY LIGHTING LTD
Progress Electroplating & Manufacturing Co Ltd
PTRS LTD
Pure Storage International Limited
QFF Distribution
Quaestor Analytic Ltd
Qualvecom
Quest Merchandise Limited
Quick Fit Garage Ltd
Quicktec Computers Ltd
Quinn Electrical Services Ltd
QVC
R.T. Large & Son Ltd
RADIO & SECURITY PRODUCTS LTD
Radiometer Ireland Limited
Radionics Ltd
RADIUS COMMUNICATIONS IRELAND LIMITED
Range King Ltd
Ravensburger ltd
Ray Grahams Limited
Rayal Energy Ltd
Razer (Europe) GmbH
RB Ireland Hygiene Home Commercial Ltd.
Reagecon Diagnostics Ltd
Reckitt Benckiser Ireland Ltd
REG FARRELL ENGINEERING LTD
Rehan Electronics Ltd
reichelt elektronik GmbH & Co. KG
Reliable Controls
Reliable Security Products Ltd
Renault Ireland
Rennicks Signs Ireland
Rentokil Initial Ltd
Rettig Ireland Ltd
Rhino Industrial Ltd
Rhonda Ltd
Ribbon Communications International Limited
Ricoh Ireland Ltd
Riese & Müller GmbH
Right-Click Ltd
RILLTON LIMITED
RK Wholesale Ltd
Robert E Nolan Ltd
Robert Roberts Ltd
ROC RONOCO LTD
Roche Diagnostics Ltd
Rockford Healthcare
Ronseal Ireland (Ltd)
Rookery Consulting Ltd
Rossport Retail Services Ltd
Rostul t/a Laser Tech Ireland
Rota Industries Ltd.
RQ Audio Visual Ltd
RST Power Distribution Ltd
RTD Technology Ltd.
RVR Energy Technology Ltd
RWL Security Solutions Ltd
Ryan Motor Power Ltd
S&P Ireland Ventilation Systems Ltd
Sagepay Dublin LTD
SalesCare Marketing and Distribution Ltd
Sally Salon Services (Ireland) Limited
Sam McCauley Chemists Limited
Samsung Electronics (UK) Ltd
Sanbra Fyffe
SATCITY
Save You Services Ltd
SaveMeMoney Wind and Solar Ltd
SC Data Systems Ltd
Scan Coin Ireland Ltd
Schindler Ltd
Schneider Electric Ireland
Schneider Electric IT Logistics Europe Limited
Scientific Games Worldwide

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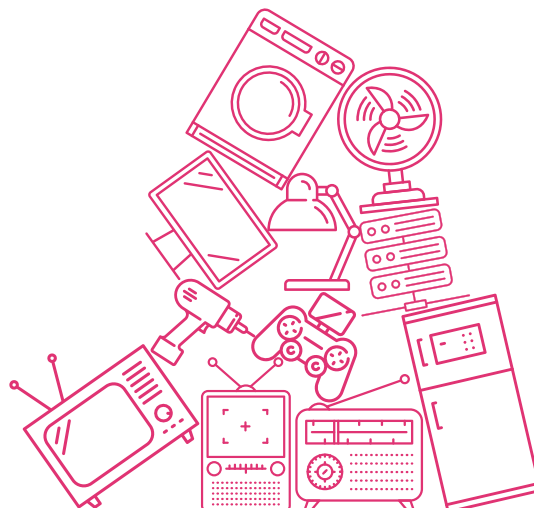
Scott Sportech Ireland Ltd
 Screwfix Direct (Ireland) Limited
 Seamus Boland Autosales Ltd
 SEAN FITZPATRICK WHOLESALE LTD
 Secure Power Systems Limited
 Sennheiser UK Ltd.
 Serfac Ltd
 Setanta Vehicle Importers Ltd
 Sex Siopa
 SFW Distribution
 SHOMAR LTD
 Shop Direct Ireland
 Shopysea
 Siemens Gamesa Renewable Energy Ltd
 Siemens Ltd
 Sight and Sound (Distributors) Ltd
 Sigma Aldrich Ireland Ltd
 Sigma Wireless Communications Ltd
 Signet Trading Limited
 Signify Commercial Ireland Ltd
 Sigtec Limited
 Silverstone Media Solutions Ltd
 Singer Sewing Centre
 Sisk Healthcare UC
 Skechers USA LTD
 SKS COMMUNICATIONS LTD
 Skullcandy International GmbH
 Sky In-Home Services Ltd
 Smart Bits Phone Accessories Ltd
 SMART ELECTRICS WHOLESALE
 Smartfrog Ltd.
 Smiggle Ireland Ltd
 Smiths of Drogheda
 Smoke Green Limited
 Smyths Toys HQ
 Snap Group Limited
 Solas Geal Distribution Ltd
 Solas Ltd
 Solatrex International Ltd
 Somora Motor Parts Ltd.
 Sonnen GmbH
 Sonos Europe BV
 Sord Data Systems Limited
 Sordan
 SOUND PRODUCTIONS LIMITED
 Soundzdirect Ltd
 South West Wholesale Ltd
 Spaldings Ltd
 Spectrum Distribution Ltd
 SPG Packaging UK Ltd
 Spicers Ireland Ltd
 Spraychem Ltd
 Sprayclear Environmental
 Sprayquip Ltd
 SQUARE ONE DISTRIBUTION LTD
 SRL International Concepts Ltd
 Stafford Lynch Ltd
 Stanley Security Ltd
 StanleyBlack&Decker Ireland
 Staples Advantage (Irl) Ltd
 StarBrite Lighting Ltd
 STC SOCKET TOOL COMPANY LTD
 Stella Doradus Europe Ltd
 Stephen O'Brien Retail Systems Ltd
 Stephen Pio Ltd
 STILLORGAN DECOR CENTER
 Storagecraft Technology Unlimited Company
 Stoves Store
 Stox Designstyle Ltd
 Strongline Autoparts Ltd
 SUEZ Water Technologies and Solutions
 Sulzer Pump Solutions Ireland Ltd.
 SUNDRELLE LIMITED
 Sunradi Ltd
 Superdrug Stores plc
 Supergroup Retail Ireland Limited
 Supersavers
 Sureweld International Ltd
 Survey Instrument Services Ltd
 Suzuki Cars Ireland Ltd
 Swico Ltd
 Switch Distribution Limited
 Symantec Limited
 Synergistics LTD
 System Video Limited
 Systemlink Technologies Ltd.
 T Tools Ireland Ltd
 T&T EQUIPMENT LTD
 Tadhg Riordan Motors Ltd
 TaskLED Lighting Ltd
 TDS Disney Ireland Limited
 Tech Data Distribution Ltd
 Tech Data Ltd
 Technetix Ltd
 Technico Ltd
 Tech-Source Ltd
 TECH-SPEC
 Tecoled Ltd
 TEF TULLAMORE LTD
 Tekelek Europe Ltd
 Tekhnopak Manufacture Ltd
 Tektronix International Sales GmbH
 Tektronix UK Ltd
 Telent Technology Services Ltd

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Tempcheck
TEMPLECRONE COOPERATIVE SOCIETY LTD
Teradata Ireland Ltd
Tesco Ireland Limited
Tesco Mobile Ireland Ltd
Tesla Motors Ireland Ltd
Texas Instruments EMEA Sales GmbH
Thane Direct UK
The E.I. Unlimited Company
The Forklift Centre Ltd
The New Motion B.V.
The Newbridge Cutlery Company UC
The Phone Accessories Company Ltd
The Power Providers Ltd
The Range (Ireland) Ltd
The Sound Shop (Ireland) Ltd
The Swatch Group UK Limited
The Vapomatic Co. (Ireland) Ltd
Thermo Fisher Diagnostics (Ireland) Ltd
Thistleway Ltd
Thomann GmbH
Thomastown Garage Limited
THORN LIGHTING LTD
Three Ireland (Hutchison) Ltd.
Tiger Retail Ireland Limited
Tile Inc.
TIM MOLLOY LTD
Time Data Security
Timemark Ltd
TLG Distribution
TMC Technology Ltd
Tokyo Electron Europe Ltd
Toolbank
Tooling & Engineering Distributors (TED) Ltd
Toomey Audio Visual
Topcon Europe BV
Topcon Ireland Medical
Toshiba Global Commerce Solutions (UK) Limited
Total Materials Handling Ltd
Total Power Solutions Ltd
Toyland Cash & Carry Ltd
TOYMASTER LTD
Toyota Ireland Unlimited Company
Transfer Multisort Elektronik sp. z o.o.
TREND MACHINERY & CUTTING TOOLS LTD
Trend Micro (EMEA) Limited
TRIACE LTD
Trina Solar (Luxembourg) S.a.r.l.
Trulife
TTS Tooltechnic Systems Ireland Limited
Tucks O'Brien Ltd
Tungsum Operations Kft
TURBO LEISURE LTD
Turbotricity Ltd
Twisted Wrist Limited
Two Trees Engineering Ltd
Tyrell Content Creation Tools Ireland Limited
UBI Universal Brands Ireland Ltd
UK Juicers Limited
UMC Poland Sp. z o.o.
Umlagh Country Trading Ltd
UnipharPLC
Unisys Europe Limited
UNITED HARDWARE DAC
Universal Honda Limited
Up The Yard Ltd
Upgrade Options Ltd
Uppercross Enterprises Limited
UrbanVolt Ltd.
Urbis Schreder Ltd
UTC Fire & Security Ireland Ltd
UTS Technologies Ltd
Veelite Lighting Ltd
VELUX Company Ltd
Vendek Ltd
Verde LED Ltd
Veritas Storage (Ireland) Limited
Vertiv International DAC
Vertiv Ireland Ltd
Vestas Ireland Ltd
VESTEL GERMANY GMBH
Vico Electronics Ltd
Victoria Crystal Limited
vip ecig irelnd
Vita-Mix Europe Ltd
Vitold Investment UC
Volkswagen Group Ireland Ltd
Volvo Car Ireland LTD
Vorwerk UK LTD
VP Equipment Rentals (Irl) Ltd
Vygon Ireland Ltd
V-ZUG Europe BVBA
Wacker Neuson Ltd
Walter Bourke & Son Ltd
WALTONS MUSIC LTD
Washglade Unlimited Company
Waterford Stanley Ltd.
waveguide lighting technologies ltd
Weber-Stephen Deutschland GmbH
Weighing Machine Services Ltd
Weir & Sons Unlimited Company
WERMA Signaltechnik GmbH & Co. KK
WESCO ELECTRICAL LTD
Westward Garage Ltd.,

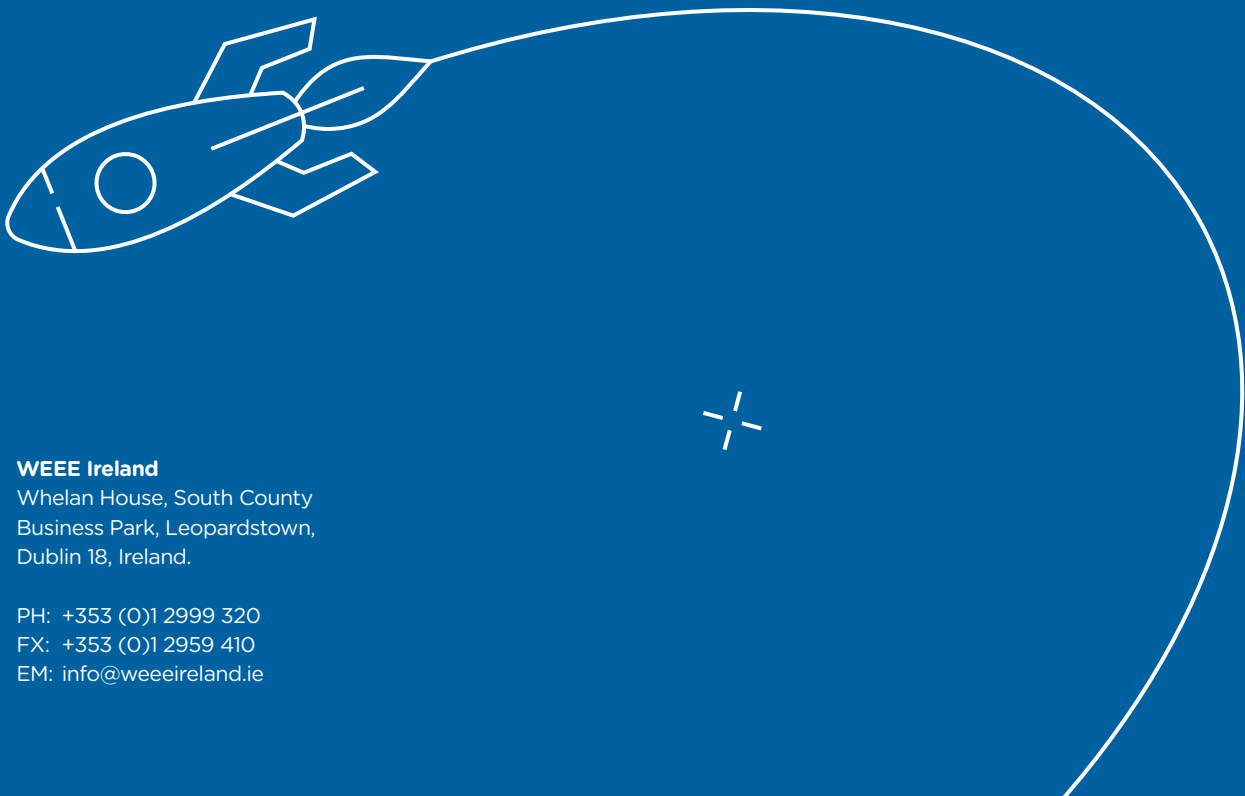
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Whirlpool Ireland Appliances Ltd.
Whitgale Ltd
Wildcat Business Computing Limited
Williams Locksmiths Ltd
Willie Duggan Lighting
WilTec Wildanger Technik GmbH
Wink Lighting Ltd.
Winora-Staiger GmbH
WM REYNOLDS & SONS LTD
Woodies DIY Ltd.
Woodland Motor Company Ltd
WP DIAGNOSTICS
Würth Ireland Ltd
Xerox IBS Limited
XINDAO B.V.
XMusic Ireland Ltd
Xpress Electrical
Xylem Water Solutions Ireland Limited
ZAGG INTERNATIONAL DISTRIBUTION
Zatori Results Ltd
Zebra Technologies Europe Ltd
ZINTEK SYSTEMS LTD





WEEE IRELAND
ANNUAL ENVIRONMENTAL
REPORT TWENTY NINETEEN



WEEE Ireland
Whelan House, South County
Business Park, Leopardstown,
Dublin 18, Ireland.

PH: +353 (0)1 2999 320
FX: +353 (0)1 2959 410
EM: info@weeireland.ie