

GREEN APPLE AWARDS FOR ENVIRONMENTAL BEST PRACTICE

SUBMISSION BY THE FLOORBRITE GROUP 2022

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Section 1

Project Title – Waste Management innovation & increasing sustainability awareness at Renold Gears Milnrow

Submitted in the category for - Both

Contact details of any other organisation involved with this project

Section 2 – Sectors and Categories

Commerce and Industry Sector – Service Industries

Green Practices Sector – Wastes Management

Section 3

Has this project ever been nominated previously for a green apple award? YES

Section 4 - Project Aim

The Floorbrite Group have been providing cleaning services at Renold Gears since 2005 Renold Gears are a manufacturer of the world's best chains and have always been at the leading edge of gear technology and power transmissions. Our bespoke Waste & Environmental Management Service was introduced in August 2017. We contacted Renold Gears to offer a tailored alternative to waste removal services.

In early 2017 our Waste & Environmental Consultant, Trudie Williams, who is an ISO 14,001 Lead Auditor and WAMITAB accredited, met with Renold Gears and discussed our waste solutions. Our ideas fitted perfectly with the company objectives at Renold Gears, following the company's objectives to increase office recycling. In 2021 Renold Gears were looking at achieving a higher standard of ISO and to achieve this standard they asked for our advice on Hazardous Waste removal and segregation. Following several visits to site with our team and chemist, we put a bespoke plan together to help them achieve this ISO status and roll this out across the Workshop and Shop Floor and Engineering departments.

Floorbrite's aims were to reduce waste removal costs, encourage 100% recycling, achieve zero landfill, introduce full segregation of ALL waste streams, recover energy from waste. Get buy in from management and staff to increase recycling, fully train staff, reduce overflowing containers and handle waste in the correct way. Finally, by working closely with Renold Gears we have created a powerful case study to target other manufacturers to reduce their waste to landfill decrease their waste disposal costs and reduce the number of collections required by bulking up the waste into the correct receptacle and transport all waste at the same time which has reduced transport charges on site.

## Section 5 - Project Achievement

Our achievements have certainly helped the environment by reducing Co2 and transport (road mileage) to and around Renold Gears Milnrow site and neighbourhood in the form of waste vehicles. The reduction in waste pickups has in turn reduced Renold Gears costs. Movement of waste on site has reduced due to the reorganisation of waste disposal and recycling points and the reduction in the total amount of waste produced. For the Factory waste we have introduced the separate removal of Oil, Oily Rags, Filters, Sealants, oil cans, grinding waste and diverting the to one waste disposal site for sorting and recovery. Previously all waste was being placed into large Roll-on off Skips and landfilled with little or no segregation on site. Clearance of old tanks on site and clean up of the area surrounding the river area on site.

By educating the management team and staff they have become passionate about recycling. There is a real "Feel good factor" proved by Trudie's reports and this has also inspired staff to take what they've learned home and become greener individuals. There is a definite change in staff culture with all looking at ways to make other waste reductions.

With Floorbrite's recommendations, Renold Gears have invested more in their onsite segregation process and promoted their achievements to their supply chain, inspiring their customers to carry out more recycling. Notice boards are clearly marked around the site with a clear picture and map of where each waste stream should be placed and dealt with on site. If a member of the team finds any diverse waste stream, they are encouraged to seek advice from our team.

By breaking down the waste into individual waste streams, Trudie's waste data and environmental reports give a clearer picture of the waste data that is recorded. There is greater control over disposal costs and control of the waste on site.

Renold Gears are very proud that the introduction of Floorbrite's new systems with the co-operation of the whole of the Renold Gears Milnrow team have achieved zero to landfill at the same time achieved their goals of ISO Status and are very pleased with the outcome.

## Section 6

### What did the project involve doing?

Site Audit/several visits

Visit to site 6 x per week during implementation process

Ongoing visits with the Operations Manager

Movement of all existing containers

Re-Placement of skips/containers/waste safes

Change of containers (External) to IBC/Waste Safe/Sealed Drums

Decrease in collection frequencies

Provision and installation of signage

Speed up skip exchanged on site

Provision of internal recycling containers

Managing the removal of existing containers

Removal and disposal of all Tanker Waste on site

Training and education

Negotiating new waste contractors and contracts

Arrange new delivery and collection process

### Why did you do it

In becoming a responsible supplier and manufacturer by producing a bespoke product, Renold Gears wanted to also focus on their own waste production at their manufacturing site in Milnrow.

### What did it cost and where did the money come from?

The money for the project came from the existing annual Budget for waste management. Floorbrite Group have continued to negotiate low rates of disposal since implementation to the present time.

If quantifiable what did the project achieve in terms of sustainability, development, economy, environment and equity.

All Renold Gears staff, management and customers have been educated about the benefits of recycling with a change in culture by seeing the achievements unfold. Renold Gears are enthusiastic about promoting their success and their green credentials with the ability to become attractive to PLC Companies and their own KPIs.

The local community have benefitted from a reduction in traffic. Renold Gears have benefited from cost saving and will benefit from further investment and savings. They will see an increase in business due to the ISO level of achievement.

Floorbrite have reduced skip collections per annum from 156 to 13 and increased recycling from 10% to 98%. and still increasing.

In achieving zero to landfill, since August 2017 to the June 2022, Renold Gears diverted 546.3 tonnes of waste from landfill, saved 9288 trees from destruction and the equivalent to 287.403 kg of Co2. With the total of waste diverted from landfill from the start of the project of 811.44 ton. From Jan 2022 to June 2022 with the increase in Hazardous waste diversion being put in place on site, they have diverted a further 12.440 ton of waste to be recovered and recycled 12.960 ton of waste with this increasing year on year to achieve their goals on site.

### Longer term benefits

As Renold Gears are the leading edge in gear technology and are embarking on further accreditations within the business and with their own waste management achievements their credibility in this area will increase. As Renold Gears own customers become more aware of the achievement and of their own responsibility to achieve sustainability goals, Renold Gears trusted track record will be able to encourage and inspire customers to follow suit.

The story does not stop with what Floorbrite have achieved so far. We have inspired Renold Gears to look at additional recycling innovations and make further investment in containers and signage to increase recycling in other areas. With a further project to introduce segregation zones within the office for confidential waste. We are also looking to complete a trial on water management on site in the second half of 2022r.

### Was there anything innovative about the project?

Introduction of correct containers for each waste stream to reduce collections on site  
Introduction of a storage methods, reducing costs of transport visits  
Added Hazardous and workshop waste disposal point on site  
Placed signage and receptacles in the correct position on site  
Bulked up collections on site to decrease transport around the site and reduce costs

### Can other organisations benefit from implementing your methods?

Yes

Manufacturing companies could benefit from this method.

Packaging companies could benefit

Companies that have multiple skips or bin collections weekly would benefit from the introduction of a compactor on site.

#### What did you learn from the project and are you planning any further development?

Further development for the reduction of water waste on site.

Further development for the segregation of Pallet waste recycling on site.

Further development of handling method of Inert waste on site.

Carry out regular review meetings to help achieve consistent reduction on site.

#### Awards Gained

2015 Bronze Green Apple Award – for the built Environment for improving environmental awareness

2015 Golden Service Awards x 2 (manufacturing and Hospitality)

2015 Silver Green Apple Award – Estate Management

2016 ROSPA Gold

2016 Gold Green Apple Award – Service Industries

2016 Green World Ambassador Award

2017 Silver Green Apple Award – Waste Management

2017 Green World Ambassador Award

2017 ROSPA Gold

2018 Golden Service Award [Environmental Innovation]

2018 Green Apple Award – Waste Management

2018 Green Ambassador Award – Turkey

2019 Green Ambassador Award - Vietnam

2019 Environmental Awareness

2019 Best in Fields – Waste Management

2020 Environmental Awareness

2021 Environmental Awareness

2021 Green World Ambassador

2022 Green World Ambassador

#### Enforcement action

NO

#### Case Study

Renold Gears based in Milnrow employs of 150 staff, also operates in 20 countries worldwide. Renold is an international group delivering high precision engineered and power transmission products to our customers worldwide. Our market-leading

products can be seen in diverse applications from cement making to chocolate manufacturing, subway trains to power stations, escalators to quarries; in fact, anywhere something needs to be lifted, moved, rotated or conveyed. With operations in almost 20 countries, and an international network of distribution partners, you can depend on Renold to provide specific solutions to customer's unique problems, with unrivalled local support. Whether you need the performance of the World's best transmission chain or customised drive systems using class-leading couplings and gearbox designs, Renold is the name you can trust for power transmission performance

Renold Gears have recently installed a £1.8 million, state-of-the-art, Burkhardt + Weber machining centre, at its factory in Rochdale, to increase production of gear cases in the mid to large gear unit market. The new, high-precision machining centre supplied by leading machine tool supplier Geo Kingsbury will speed up in-house production as a result of reduced set-up and run times and enable the company to meet steady growth for its products in this sector. The new machinery, described by Renold as the most accurate machining centre on the market, is capable of meeting the highest industry standard tolerances.

### **Aiming for zero waste to landfill**

Renold Gears invested time in partnership with Floorbrite Cleaning & Facilities in the recycling system to decrease landfill. Floorbrite have introduced recycling facilities for the separate collection of confidential paper waste, paper, cardboard packaging, wood, metals, plastics and organic waste. The prevention, re-use and recycling measures introduced by Renold Gears and Floorbrite have reduced the amount of residual waste it produces by 98%. With the introduction by Floorbrite of the correct size containers, we have been able to reduce the collection of waste from three skips per week to One Skip every 4 weeks. This helps reduce movement on site, cut down on road traffic in the surrounding housing estate and reduce road mileage and CO<sub>2</sub>. With the addition of adding separate disposal zones for hazardous and workshop waste, this will in turn reduce any issues of contamination. All this waste will be sorted and recovered at the disposal point. Clearance of old tanks on site and clean up of the area around the river perimeter.

### **Diverting Recycling and food waste.**

The introduction by Floorbrite of Internal Recycling Containers and Food Caddies in canteens and kitchen areas, has diverted all food-based waste into the external food bins.

### **Recovering other value**

Since September 2017, food waste has been collected weekly and sent to an anaerobic digestion plant to produce biogas and bio fertiliser. All hazardous waste is now sent for recovery and reuse.

### **Enabling re-use**

As part of Floorbrite's objective to decrease the amount of waste produced on site, recycling containers have been introduced and has increased paper re-use, paper waste is sent for off-site and 100% recycled. All cardboard waste is now separated

and sent for recycling. By the introduction of segregation of all mixed recyclable waste Floorbrite have used a separate container for disposal via a recycling method on site. This has reduced collection of the waste considerably. All this waste is removed and sent to a recycling facility which recovers 98% of the waste and the balance of 2% is used in waste to energy. This has achieved Zero Landfill for Renold Gears and has also seen a reduction in waste by 39%

### **Maximising opportunities for recycling**

Renold Gears has set targets to increase the amount of waste it recycles. Hazardous items and General Waste is a major waste and Renold Gears aims to reduce the amount it needs to dispose of by encouraging suppliers to: Optimise packaging to prevent excess; and use re-usable containers. Any cardboard that cannot be re-used is recycled. Using the larger container, bulking up hazardous collections means fewer visits from recycling contractors to collect the waste and less space is taken up by waste awaiting collection also improving site health and safety.

### **Continued opportunities**

Floorbrite are now looking into reducing wood waste collections, by increasing segregation and removal methods on site of large pallets. Which will further reduce the collect frequencies of the wood skip which was originally 3 times per month to our new proposed bi-monthly. Since October 2019 the general waste skip has changed from 2 weekly to quartley collection, also reducing costs and transport around site. By bulking up the hazardous waste collection with other workshop waste and scheduling the visit for full loads, add the tanker waste to our service which has also reduced the traffic around the site and local area.

### **Communicating with Staff and Management**

**Following** initial discussions with Floorbrite, Renold Gears aspired' of achieving Zero Landfill. Floorbrite have been able to reduce waste disposal costs, which has inspired the Management and Staff into looking at how the saving can be reinvested in ways of recycling more within the business. Working together with staff at Renold Gears, the Floorbrite team have visited site to carry out training with staff and fully audit the areas of concern to ensure initial targets are being met. Floorbrite trained Staff on the safe use of the compactor and placed signage to help staff understand where items go to be recycled. Train cleaning operatives on the movement of waste, type of waste, container and bags required. Quartley waste Data reports are provided enabling the Management to see the improvement and the weight of each collection and share this with staff to motivate and keep the momentum. Only by measuring the waste can consistent improvement be made. Renold Gears have been able to inspire their supply chain with the good news waste story so far challenging them to make changes.

Notes to enclose

Certificate

Data

Photos

