

SUSTAINABILITY

AT THE HEART OF
AGGREGATE INDUSTRIES



IN 2017



25% of higher apprentices recruited are female



59 new apprentices



>97% Waste recycled



10 Sites now certified to The Wildlife Trust's Biodiversity Benchmark



745,845 Tonnes of Recycled Asphalt Pavement (RAP) reused in production

Tonnes of Recycled Asphalt Pavement (RAP) reused in production

WELCOME

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Sustainability is at the heart of our business, from our values to our vision, and is one of our strategic pillars. Our commitments focus on the themes that are most material to our business: Climate, Water & Nature, Circular Economy and People & Communities.

Our aim is to be a leading sustainable business, trusted and respected by our stakeholders for the ethics we adopt and the products and services we supply.

We continue to collaborate and engage with our customers and our suppliers to build better relationships, develop innovative products and services and enable low carbon sustainable construction.

We see our people at the forefront of the construction industry, transforming it into a more sustainable future.

IT'S THAT DEDICATION THAT KEEPS US AT THE HEART OF CONSTRUCTION.



SUSTAINABILITY IS AT THE HEART OF OUR BUSINESS, FROM OUR VALUES TO OUR VISION, AND IS ONE OF OUR STRATEGIC PILLARS.

Our aim is to be a leading sustainable business, trusted and respected by our stakeholders for the ethics we adopt and the products and services we supply.

Aligned to our parent group, LafargeHolcim, reporting on our impacts allows us to reflect on what we have achieved and what we still need to improve on. It also enables us to communicate to all of our stakeholders on the challenges and progress we are determined to make in the future.

During 2017, a focus for our business has been a move towards addressing the challenge of improving diversity within our workforce. We recognise that our female colleagues, who today are low in representation across our organisation, need support to help them advance into senior positions. We must also work harder to encourage more women to join us and to build gender diverse management and operational teams. That's why we established a Diversity & Inclusion Taskforce, which I co-chair, comprising a cross section of our employees to represent the diverse businesses across our organisation.

Health and safety remains our overarching company value and our top priority. This year we experienced a plateau in our performance despite increasing our drive to reduce risks and ensuring everyone is taking responsibility for their own and their colleagues' safety, which is why we are now looking ahead to next year and to new initiatives to improve health and safety wellbeing across our business.

Working alongside the Wildlife Trust, I am pleased to report that we have had many successes this year in delivering site restoration projects. These require hard work, collaboration with partners and patience to create truly beneficial landscapes and habitats that merge into the wider landscapes.

The need for new homes and infrastructure in the UK is growing, and Aggregate Industries is committed to support in delivering those projects. For us and our sector, change has become a constant and we must embrace this positively through improved performance, using less energy and making products with minimal impact on the environment and society.

The future remains challenging but I am privileged to be a part of a great team which will continue to lead and respond in the best ways we can to be progressively more sustainable for the long-term.

François Petry
Chief Executive Officer

AS PART OF OUR COMMITMENT TO SUSTAINABILITY, EACH YEAR WE REPORT ON THE STEPS WE ARE TAKING TO OVERCOME THE CHALLENGES WE FACE AND MAKE THE MOST OF THE OPPORTUNITIES WE HAVE ACROSS OUR FOUR CORE AREAS OF FOCUS:

- ▶ CLIMATE
- ▶ CIRCULAR ECONOMY
- ▶ WATER & NATURE
- ▶ PEOPLE & COMMUNITIES

We take our responsibilities to our employees, customers and the communities in which we operate very seriously. In this report we highlight some of the many ways we have been successful in meeting these responsibilities.

Some of the most impactful initiatives delivered in 2017 have been through our collaborative partnerships. With Open Energi we launched the industry first Dynamic Demand 2.0 platform to help maximise the use of our operational assets in helping to rebalance the National Grid. And together with Leicester Tigers we reached almost 2,000 school children through the delivery of our Concrete Rugby programme, particularly our 'Give Bullying the Boot' campaign that reached more than 750 school children.

Additional key achievements include working in conjunction with the Supply Chain Sustainability School to continue educating

employees and others across the sector to help eliminate modern slavery. Our Modern Slavery Statement outlines our support for the aims of the Modern Slavery Act 2015 and our policies, robust systems and procedures are in place to help ensure that we operate an open, honest and ethical business.

Encouragingly, our colleagues continue to get involved with community volunteering and fundraising campaigns and in 2017, we saw the number of volunteering hours and the number of visitors to our sites reach an all-time high, further demonstrating our ongoing commitment to the communities in which we operate.

Another record achieved in 2017 was welcoming the highest number of apprentices to the company, with nearly 60 joining across all parts of our business, a further investment towards our commitment to develop future generations and talent in the sector.



Whilst there are many positive milestones and achievements reached this year, we still have many challenges to address in our journey towards meeting our stretching 2020 targets. Considerable effort continues to go into our energy and carbon reduction projects. We have a number of innovative trials underway, and our two cement plants have made good progress in increasing the percentage of alternative fuels utilised but whilst our overall carbon footprint has fallen by 9%, we need to do more. And whilst I'm pleased that our rate of recycling is at an all time high, there is still more to be done in further reducing waste production to move towards our ambition of enabling a truly circular economy.

The progress we have made in 2017 is a result of the hard work and focused effort of our colleagues, suppliers and partners across all our operations. As 2020 rapidly approaches, we will continue to work hard as a team across our organisation to ensure we meet our targets, to create a more sustainable future for us all.

Donna Hunt
Head of Sustainability

CLIMATE

OVER THE PAST TWO YEARS, OUR ENERGY AND GREENHOUSE GAS (GHG) FOOTPRINT HAS CHANGED SIGNIFICANTLY, WITH THE ADDITION OF THE TWO CEMENT WORKS TO OUR PORTFOLIO. AS A RESULT, WE HAVE RE-ESTABLISHED OUR BASELINE AND THE WAY WE PRESENT OUR GHG AND ENERGY DATA.

However, our climate change commitments remain unchanged. Our 2020 energy and GHG intensity reduction targets remain the same and have been equally applied to our cement operations.

For the first time we have reported the limestone calcination emissions produced in the manufacture of cement for both 2016 and 2017. These figures represent the emissions from the chemical transformation from limestone to clinker.

Our energy use remained very similar in 2017, with a small reduction in electricity compared to 2016, counterbalanced with a small and equivalent increase in natural gas usage. Overall our carbon footprint has fallen by 9%, in part due to a reduction in the UK government's conversion factor for grid-supplied electricity and in part due to our increasing use of waste-derived fuels in our cement operations and switching to less CO₂ intensive fuels in other operations.

While liquid fuel consumption increased across the business, solid fuels decreased by over 100,000 MWh, the contribution from the re-use of waste-derived fuels in our cement operations increased by around 68,000 MWh. Our commitment to utilising increasing volumes of waste-derived fuels is demonstrated by the growing operations and presence of Geocycle in the UK (more on page 11).

We continue our commitment towards decarbonising the UK's electricity grid by purchasing 100% of our electrical grid demand from 100% renewable sources; largely from wind sources.

In 2017 we also increased our participation in demand side flexibility, providing 17MW of demand flexibility to National Grid under the Capacity Market programme - where we voluntarily turn down our electrical demand when there is a shortage of supply on the grid. We're also evolving some of our other demand side flexibility programmes.

KEY SUSTAINABILITY BENEFITS:

▶ **PROCESS EMISSIONS DOWN TO 25.63 IN 2017, FROM 28.11 IN 2016.**

▶ **TRANSPORT EMISSIONS DOWN TO 3.13 IN 2017, FROM 3.57 IN 2016.**

▶ **TOTAL EMISSIONS DOWN TO 28.76 IN 2017, FROM 31.68 IN 2016.**

ACTION AREAS

WHAT WE SAID

WHAT WE DID

OPERATIONAL IMPACT

5% per year reduction in operational energy intensity.

Achieved 8.8% reduction compared to 2016 following a resetting of the baseline*.

5% per year GHG intensity improvement.

Achieved a 12.3% reduction compared to 2016.

TRANSPORT IMPACT

Track transport GHG intensity indicators in the short-term to set 2030 targets.

Introduced a range of integrated monitoring technologies to improve the quality of data and to make it a real-time tool to improve utilisation.

*In the past we have referred to process energy intensity, we now use operational energy to encapsulate all power and heating and process emissions from the cement business. This includes GHG from raw materials and combustion fuels.

TRANSPORT IMPACT

Our carbon footprint from transport operations has reduced from 2016. We are constantly reviewing and renewing our freight options, while road haulage remains the main means of getting product to market. We have introduced new techniques to allow improved monitoring and real-time logistics management. We undertook a significant review of our truck operations as a long-term programme of specifying appropriate engine and load capacity options.

While we see a fuel efficiency benefit in specifying and using large capacity, non-tipping trucks, sometimes smaller 8-wheel trucks are a better option, as it is more efficient to entirely fill a small truck than part fill a larger truck. We also take into consideration the need to minimise exhaust emissions to meet current and planned low emission zones in cities.

This is already well established in London, with an ultra-low emission zone in the centre.

With the growing recognition of the health impact of poor air quality in our towns and cities, fifteen other local authorities are considering creating their own low-emission zones, including West Midlands, Leeds and Bath. We continue to specify and invest in low emission vehicles which will deliver to the construction industry over the next decade.



GEOFENCING AT WESTLEIGH QUARRY

At our Westleigh quarry and asphalt plant in North Devon, the route to the nearby M5 motorway takes vehicles through the nearby village of Burlescombe. For many years we have had a voluntary agreement not to allow any vehicles through the village during school opening and closing (8:40-9:05 and 15:20-15:40) this has worked very well as vehicles were held on site.

The site also has an agreement to restrict vehicle speed through the village at all times to 20mph, but this was more difficult to police. Now, by using the navigation system we have fitted to our hauliers we have set up a "geofence" that automatically alerts the Transport Department if vehicles exceed the 20mph limit. In the rare instances where a haulier does exceed the 20mph limit we now have the evidence to prove it, making the conversation with the haulier more productive.

This geofencing system is also being used elsewhere by our Transport Department to monitor local speeding hotspots to ensure that our vehicles adhere to speed limits and any routing restrictions.



OPEN ENERGI DYNAMIC DEMAND 2.0

In 2017, our existing partnership with Open Energi evolved as we worked with them to launch their new, artificial intelligence demand side flexibility platform 'Dynamic Demand 2.0'. Dynamic Demand 2.0 offers greater control and visibility of the energy demand of our asphalt operations, helping us to save energy, cut costs and allows us to play a more active role in creating a sustainable energy future.

The platform optimises consumption to avoid peak price periods and learns how our assets behave (e.g. heating and cooling rates) to improve operational efficiency.

Collectively, we can provide up to 4.5MW of real-time demand flexibility across our sites, earning revenue and cutting carbon emissions by around 10,000 tonnes of CO₂ a year.

Dynamic Demand 2.0 is giving us even greater control and visibility of our assets. The platform uses artificial intelligence to automatically manage and coordinate how different assets respond to different market signals. As part of the initial rollout, we've connected 40 bitumen tanks at ten asphalt plants UK-wide. We're accessing the imbalance market via Renewable Balancing Reserve (RBR), a product offered by our renewable electricity supplier, Ørsted.

In 2018 we plan to expand our use of Dynamic Demand 2.0 to 48 sites in total.

Richard Eaton, Energy Manager at Aggregate Industries, said: "Aggregate Industries has pioneered the use of Open Energi's technology since we first started working together in 2012. But we know we have only scratched the surface in terms of the value that demand side flexibility can offer both our business and society. We're living through a fundamental, large-scale change in our energy system and the more companies that collectively manage their demand in this way, the greater the impact we can all have."



IT IS NOW POSSIBLE TO MEASURE AND MONITOR MACHINE BEHAVIOUR IN A VERY DETAILED WAY SO THAT WE CAN IDENTIFY FLEXIBILITY IN THE WAY WE CONSUME POWER.

MANY INDUSTRIAL PROCESSES, SUCH AS PUMPING, HEATING AND COOLING, HAVE INHERENT ENERGY STORAGE. WHEN YOU COMBINE THESE WITH ON-SITE GENERATION, BATTERY STORAGE AND EV CHARGING IT IS POSSIBLE TO TAKE SITES OFF-GRID FOR PERIODS OF THE DAY WITH NO IMPACT ON BUSINESS OPERATIONS.

WE BELIEVE THIS PLATFORM PUTS WITHIN REACH A 100% RENEWABLE ENERGY SYSTEM, BALANCED BY REAL-TIME DEMAND FLEXIBILITY, WHERE THE COST OF THAT INPUT IS DATA ALONE. YOU BEGIN TO SEE A FUTURE WHICH HAS A VERY LOW COST OF OPERATION AND A FUTURE IN WHICH CONSUMERS ARE IN CONTROL OF HOW THEY USE ENERGY.

David Hill
Commercial Director at Open Energi



CIRCULAR ECONOMY

Circular economy is a new term for some, but we have been looking for ways to close loops and create economic value for many years.

So what does it mean? A circular economy is an alternative to a traditional economy of make, use and dispose, as it focuses on keeping and reusing resources for as long as possible via the recovery and regeneration of products and materials.

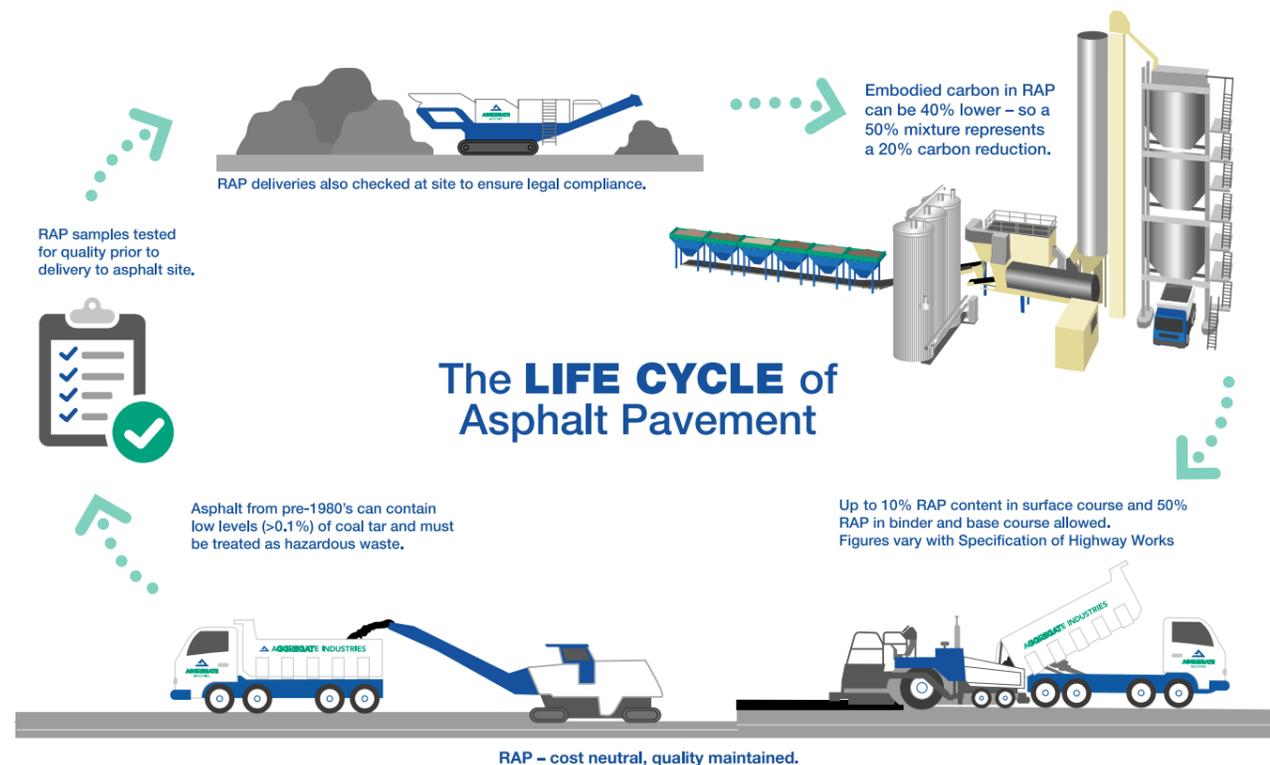
Critical to success in achieving a circular economy is access to materials when they are recovered. This is when ownership and its proximity to a place which can utilise the recycled materials becomes key.

Over the past few years the market acceptance of Recycled Asphalt Pavement (RAP) from roadworks has grown and this year our total use was more than 750,000 tonnes, an increase of more than 150,000 tonnes in 2016, and represents more than 10% of our total asphalt production. Its value as a part of a new surface is now established by client organisations and it has been our challenge to develop the infrastructure to allow recycling goals to be achieved. We are reusing both the aggregates and the bitumen that make up the asphalt materials, saving on waste and resulting in reduced carbon footprint of the new road pavement layer.

In London we have been able to capitalise on our network of sites and our rail infrastructure to increase the amount of RAP in use. In one instance in 2017, we secured the RAP from night-time working on the M4 and sorted it at our site near Heathrow where initial processing took place. We then moved 20,000 tonnes from Heathrow to Purfleet asphalt plant by rail, where it was utilised in the production of new asphalt products.

Some elements of the circular economy we can control, others we can influence and become part of the market for materials. We will continue to look at new products and develop demand for existing products which use RAP, and look for opportunities to maximise the storage and production opportunities at our network of sites in major urban markets to grow the circular economy.

Modern Asphalt – 100% Recyclable (European Asphalt Pavement Association, 2014)



ACTION AREAS

WHAT WE SAID

WHAT WE DID

ZERO WASTE TO LANDFILL

Annual reduction in the non-hazardous waste to landfill (kg/tonne).

Improved recording of waste volumes shows a small increased tonnage in the waste to landfill since 2016. 3% of total waste is landfilled. 29% of our non hazardous waste continues to go to landfill. We have identified sites sending above average quantities to landfill and are working with our partners to recycle/reuse it.

Annual reduction in inert waste to landfill (kg/tonne).

2% of our inert waste goes to landfill, we are working to eliminate landfilled inert waste from all our processes. By the end of 2018 we expect to send less than 1% to landfill.

RECYCLED MATERIALS IN PRODUCTS

Improved % of recycled materials used in our products.

Highest use of Recycled Asphalt Pavement (RAP) at ¾ million tonnes.

FUEL FROM WASTE

Actively seeking pre-treated waste as a fuel in the cement process.

Geocycle UK Ltd established in 2017 to develop opportunities with waste as a fuel.

GEOCYCLE – AT THE HEART OF A CIRCULAR ECONOMY

At its most fundamental, the circular economy consists of three elements: avoid landfilling and utilising materials, foster industrial collaboration and sharing, and increasing resource efficiency, which is the essence of Geocycle's approach.

Geocycle's process transforms waste into recycled product and energy. So far, it has been shown to deliver one of the most complete treatment solutions for non-recyclable waste through traditional treatment in 50 countries.

By making use of materials in this way, we contribute to the reduction of greenhouse gas emissions and to the transition towards a less fossil-fuel dependent industry by reducing the quantity of fossil fuels in cement manufacturing, as well as avoiding the emissions from alternative treatments like incineration or landfilling.

KEY SUSTAINABILITY BENEFITS:

- ▶ CONTRIBUTION TO GROWING THE CIRCULAR ECONOMY BY DIVERTING WASTE AWAY FROM LANDFILL
- ▶ REDUCING NEED FOR FOSSIL FUEL TO FIRE THE CEMENT KILN
- ▶ FURTHER ENABLING LOW-CARBON CEMENT MANUFACTURE
- ▶ CREATING LOCAL EMPLOYMENT OPPORTUNITIES



RESOURCE EFFICIENCY

DURABLE INFRASTRUCTURE

The headline might have been – Record Amount of Asphalt Laid in a Single Night – but this would not recognise the greater significance in terms of helping to create a more sustainable transport infrastructure through greater durability of the road’s surface.

February 14th 2017 was the night chosen to set a new benchmark in what could be achieved in one night between Junctions 32 and 33 on the M1. By increasing the scale of the removal and resurfacing operation in one shift, we reduced the number of closures needed during the on-going upgrading and maintenance of the motorway network. This means more can be achieved in a short time. There are however additional benefits.

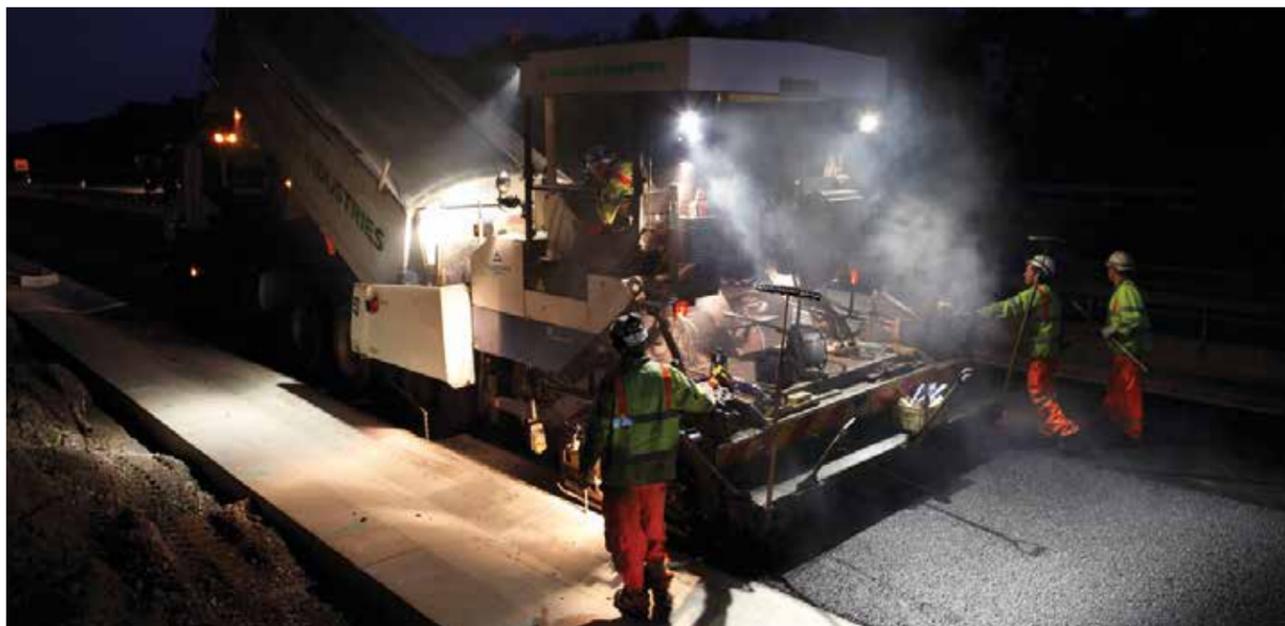
Improving the durability of the road surface has been described by the Transport Research Laboratory (TRL) as being the best long-term approach to sustainability for the road network. Durability is achieved in a number of ways, one of which is to reduce the number of joints in the road surface. These joints are created at the edges where paving machines are working or when shifts end.

Joints can become weaknesses which over time can open and allow water to damage the road. By laying wide and long continuous stretches of new surface, we can minimise the number of joints in that road surface. We achieved this through coordinated team working, the use of a paver set up to allow two lanes to be laid at once and machinery that provides continuous flow of hot asphalt to the paver.

The techniques and machinery used on 14th February allowed 1,400 tonnes to be planed and surfaced in one shift (overnight possession). This is equivalent to more than four times the normal amount. There are constraints to this innovative technique, most notably the availability of sufficient quantities of asphalt. On this job two asphalt plants supplied the job which ensured quality and quantity of material throughout the night.

KEY SUSTAINABILITY BENEFITS:

- ▶ **INCREASED VOLUME RESULTS IN SHORT TIME NEEDED FOR ROADWORKS AND REDUCED DISRUPTION TO ROAD USERS**
- ▶ **INNOVATIVE USE OF NEW MACHINERY AND TECHNIQUES**
- ▶ **CREATING A MORE DURABLE ROAD SURFACE REQUIRING LESS LONG TERM MAINTENANCE AND REPLACEMENT**



NEW ENVIRONMENTAL PRODUCT DECLARATIONS (EPD)

Environmental Product Declarations (EPD) are becoming the norm across the construction marketplace as clients are asking for more and better reporting of environmental impacts. To achieve this we have been working with BASF, the global chemicals company, using their life cycle analysis tool. In 2016, we began work to quantify the environmental impact of a number of our specialist concrete mix designs and compared the eco-efficiency of different concrete mixes. In 2017 we published three EPDs for specialist ready-mixed concrete products: Agilia™, Watertight™ and Diamondcrete™.

BASF Construction Chemicals developed the Life Cycle Analyzer tool to enable concrete producers to meet the requirements of the European Standard BS EN 15804:2012 Sustainability of construction works – Environmental product declarations – Core rules for the product category of construction products.

The standard defines the structure for construction product EPD and outlines how the data used is verified. Indicators are grouped in three types: environmental impact, resource use and output flows and waste. Using this standard means that specifiers can compare impacts with confidence that the same methodology has been used.

The BASF Life Cycle Analyzer enabled us to calculate indicators such as global warming potential (CO₂e), renewable energy consumption, acidification potential and the cost impact of different concrete mix designs. The calculation includes an analysis of the production stage only (cradle-to-gate) or a full life-cycle analysis of concrete (cradle-to-grave). The latter includes production, transportation to site, maintenance (potential painting and cleaning and (potential) replacement cycles, end-of-life or (potential) recycling / recovery options.

A major advantage of the Life Cycle Analyzer is that the tool can be used to assess the same environmental parameters for different concretes in order to optimise processes and mix designs, without compromising on concrete quality. The development of the tool is significant because concrete is the most commonly used man-made construction material.



CLOSING THE LOOP

In 2017 our Battersea ready-mixed plant installed a concrete reclaimer to reduce the need for surplus materials leaving the site. It has created a closed-loop recycling system that allows the aggregate and water to be separated and both to be reused in new batches of concrete. This has resulted in 3,500 tonnes of concrete that has been returned by customers to be recycled on site and removed approximately 200 truck movements to and from the Battersea site.

Even though space is at a premium, especially within London, we have found that reclaiming and reusing surplus materials on site is better than the alternative of transporting the material elsewhere to be recycled or downcycled into low value fill. Instead we get to use the materials again in high value concrete.

KEY SUSTAINABILITY BENEFITS:

- ▶ **INVESTMENT IN ON-SITE RECYCLING TECHNOLOGY**
- ▶ **REDUCED WASTE AND RETAINING VALUE OF RECYCLED AGGREGATES**
- ▶ **REDUCED TRUCK MOVEMENTS**
- ▶ **GREY WATER AVAILABILITY TO REDUCE MAINS WATER CONSUMPTION**

WATER & NATURE

We now have ten extraction sites certified to The Wildlife Trusts' Biodiversity Benchmark, with Ripon Quarry joining the existing nine certified sites in 2017. We will increase the number of sites certified and continue to work with partners on landscape scale projects across the country. In this year's report we are highlighting the on-going work being done at our Blackhill Quarry as part of a project to extend lowland heathland habitats in Devon.

In 2017, we hosted a LafargeHolcim training event for people from around the world to develop an understanding of the requirements and what could be achieved. Delegates were taken to Holme Park (Cumbria) and Back Lane (Lancashire) to see how biodiversity is managed in hard rock quarry operations and to Newbold (Staffordshire) for progressive restoration in a sand and gravel quarry.

Our positive contribution to ecosystems is measured and monitored using a Biodiversity Indicator Reporting System (BIRS) developed by LafargeHolcim. The BIRS methodology requires annual surveys of site habitats and generates a numerical biodiversity score per site. Over time we expect each site's score to increase as restoration takes place to create an enhanced landscape. The implementation of this new system is in the early phase.



ACTION AREAS

WHAT WE SAID

WHAT WE DID

WATER MANAGEMENT

5% per year water intensity reduction.

Water intensity:
2016: 104 litres/tonne
2017: 73 litres/tonne
29% reduction

BIODIVERSITY INDICATOR REPORTING SYSTEM

Introduce BIRS across the Aggregate Industries business by 2020.

May 2017, hosted a LafargeHolcim training course at Bardon Hill, visiting quarries to see work being carried out.

PLACES FOR NATURE

Implement Biodiversity Action Plan (BAP) at all extraction sites.

All active quarries have maintained a BAP.

Create Places for Nature on smaller operational units.

A number of RMX and Asphalt plants have created small-scale places for nature.

Increase the number of sites certified to The Wildlife Trust's Biodiversity Benchmark.

Ripon Quarry became our 10th certified site.

REDUCING WATER INTENSITY

Our target is to reduce our water intensity by 5% each year. Water intensity is a measure of the quantity of water consumed from mains and abstracted water sources as a ratio of total production tonnage. 2016 had been a peak year in recorded water intensity in part due to the improvements made in monitoring. In 2017 we achieved a 28% reduction in total water consumption and a 66% reduction in water intensity. This high reduction is in part due to the peak in 2016. In the future we expect the changes to be smaller and to form a decreasing trend.

In addition, we also report our reuse of grey water. This water comes from a variety of sources and is collected for reuse in our concrete products or to wash aggregates. The more we can use this it will help to reduce our consumption from other sources.

KEMPSFORD WATER MANAGEMENT IMPROVEMENTS

As reserves became more challenging to extract at our sand and gravel quarry at Kempsford in Gloucestershire, we needed to find cost efficient means of maximising production. Most of our sand and gravel sites use leased washing, screening and grading plant as a low cost operational option. In order to maximise performance, we designed a purpose-built washing and grading plant. By aiming to maximise production, we also wanted to minimise maintenance and wastage.

The new system has achieved a water recycling rate of approximately 73% through recirculating water as it transports and washes the sand and gravel. At the same time, we are able to recover a higher percentage of silt from the quarry and reduce waste substantially. This solution has helped reduce our fuel and machinery requirements as the quarry continues to grow and the distance materials are carried from face to processing plant.



KEY SUSTAINABILITY BENEFITS:

- ▶ IMPROVED WATER RECYCLING IN SAND AND GRAVEL PROCESS
- ▶ COMPUTER LINKED MAINTENANCE AND LUBRICATION SYSTEMS
- ▶ INTERCHANGEABLE COMPONENTS TO MINIMISE DOWNTIME AND INCREASE PLANT LONGEVITY
- ▶ PLANT LIFE EXPECTANCY >25 YEARS

BEING PART OF SOMETHING BIGGER

In 2017, Blackhill Quarry in Devon finished production and continued its process of restoration. As with many sand and gravel quarries, restoration starts while production is in full flow. Once the production on site has finished, work with partners can fully begin in order to create a high-quality habitat suited to the wider or larger landscape.

The quarry is surrounded on three sides by the protected East Devon Pebblebed Heaths. At around 1400ha this is one of the largest blocks of lowland heathland in England and represents more than 2% of the UK area. This wildlife rich habitat has declined by over 80% since 1800, and it is believed around 640ha of the East Devon heaths were lost in the 20th Century.

At 62ha Blackhill Quarry represents a significant increase to this habitat, and when restored to heathland of a similar quality to the surrounding heaths, it will make them bigger, better and more connected. Restoring the quarry in keeping with the wider landscape also meets the objectives of the East Devon Area of Outstanding Natural Beauty, within which the quarry sits.

The habitat being created will extend the homes for a number of notable species. The Dartford Warbler and Nightjar, both listed on Schedule 1 of the Birds Directive, have breeding territories in the quarry. Nightjar territories have steadily increased and three have been recorded. Positively, Dartford Warblers have now been recorded for the first time since a series of hard winters saw the local population collapse. Other bird species recorded on site include Woodlark, Tree Pipit, Linnet and Peregrine.

The nationally notable Small Red Damselfly has been found in a ditch created during quarry restoration. Butterflies including Small Pearl Bordered Fritillary, Grayling, Small Heath and Silver Studded Blue are all on site. Common Lizard and Adder are regularly recorded while Great Crested Newt were recorded for the first time in 2017, using breeding ponds created by mineral extraction.

Blackhill quarry is one of two quarries in East Devon where we work closely with the RSPB in managing restored and non-operational land. As well as providing us with expert knowledge, they also have a lot of local volunteers working on practical tasks and undertaking periodic monitoring. This provides us with a good opportunity to engage with local people to not just show them the wildlife benefits of quarry restoration, but also to discuss the wider issues of quarry operation and development in the area.

Knowledge about the site is shared on open days, and via the interpretation signs on the bridleway that runs through the site.

Heathland management is an ongoing operation and it is anticipated that through continuing management and grazing, the diversity and abundance of species on the site, as well as overall habitat quality will continue to improve in the existing areas, while more areas of heath are created and brought into management.

As with many other forms of habitat restoration, you must wait a few years before seeing any tangible results. Once you have established good quality habitat you cannot consider it a job done; ongoing management is just as important as the creation works. Finally, the work and advice of the RSPB Aylesbeare team has been invaluable on this site and these results could not have been achieved without them.



“

THE WILDLIFE TRUSTS’ PARTNERSHIP WITH AGGREGATE INDUSTRIES IS LONG STANDING. THE COMPANY HAS HELPED US TO CREATE AND MANAGE WILDLIFE HABITATS AROUND SEVERAL OF THEIR KEY SITES AND ENGAGE THE COMMUNITY WITH WILDLIFE.

WE HAVE A MUTUAL AWARD SCHEME FOR ENVIRONMENTAL LEADERSHIP AND WILL BE DOING MORE TO ENABLE AGGREGATE INDUSTRIES’ EMPLOYEES TO TAKE ACTION FOR NATURE CLOSE TO WHERE THEY LIVE AND WORK. MAJOR LAND-BASED COMPANIES LIKE AGGREGATE INDUSTRIES HAVE A KEY LEADERSHIP ROLE IN THE WIDER SECTOR TO DEMONSTRATE WHAT IS POSSIBLE.

”

Stephanie Hilborne OBE
Chief Executive, The Wildlife Trusts

TRANSLOCATING GRASSLAND HABITATS TO ALLOW QUARRYING TO CONTINUE

When quarries expand to gain access to reserves, we have to protect habitats that might be affected. In some cases, this means we must move the affected habitat away and establish it in a new location. Techniques to translocate the affected habitats are continuously evolving as we learn what works well.

The grassland translocation programme underway at Lafarge Cement’s Caudon Quarry in Staffordshire will result in a significant increase in the extent of unimproved calcareous grassland, a priority habitat type. Following completion of an initial phase of translocation where detailed vegetation survey and assessment has tested the efficacy of different translocation methods, a more extensive programme of translocation will be undertaken over coming years. Within the larger scale mitigation objective is the need to move individual Frog Orchid plants into new locations.

The medium to long term objective is to deliver a landscape-scale limestone grassland conservation project with a patchwork of habitats joined together. Limestone grassland conservation and creation schemes are underway at a series of limestone quarries in Staffordshire and Derbyshire.

At our Bardon Hill Quarry Extension we have moved hedgerows and grassland to allow the development to continue with minimal environmental impact. Following the translocation of species-rich floodplain meadow turf during 2016, a survey performed by Leicestershire and Rutland Wildlife Trust was conducted in 2017 to monitor progress.

The study has shown that the translocation has been successful in the short-term, the report conclusion made the following statement:

“The study shows that the translocation turf field is still one of the best grassland sites in the county supporting a good number of old grassland species and some notable species of local importance.”

As previously noted, these forms of mitigation are long-term projects and require regular monitoring to ensure desirable species remain and thrive while undesirable species are managed.



PEOPLE & COMMUNITIES

PEOPLE ARE THE HEART OF EVERY BUSINESS AND OURS IS NO DIFFERENT.

Our business cannot succeed without the people who perform their best at work, the people who supply us with products and services and the people who live in the communities in which we operate.

Much of this report contains examples of our successful collaboration and partnership with other organisations and individuals. The relationship between our people and others is crucial in finding and delivering the solutions to many challenges we all face today and in the future.

Fundamentally we need to attract the best people, provide them with a healthy and safe place to work, respect diversity and help them to achieve their and our goals. We are a community working within many communities to mutually benefit and with the aim of minimal impacts.

HEALTH, SAFETY AND WELLBEING

Although 2017 saw a plateau in our health and safety performance, we strongly believe that this has given us an opportunity to learn and re-establish our goal of zero harm. At Aggregate Industries we continue to drive our safety culture of: safe people, safe systems and safe environment, promoting wellbeing and focusing on controlling workplace risks for our employees and contractors.

Our Health and Safety Improvement Plan is set to deliver the improvements we all desire.

Central to our objectives is our Visible Personal Commitment programme, where an individual is trained to carry out a non-confrontational conversation with people across our sites to understand how they work and stay safe. The number of conversations carried out continues to grow, with quality conversations being the key focus of our training program.

In 2017 we made further progress to develop our Health and Safety Management System in line with international standards. We plan to complete the transition from OHSAS 18001 to ISO 45001 during 2020.

We have upskilled our workforce and have achieved our internal training targets for both IOSH and NEBOSH. Our supervisors have achieved recognised qualifications in Managing Safely, while our operations managers have achieved NEBOSH certificate or Vocational Qualification in Safety, Health and Environment developing their ability to manage risk and gain a broad understanding of the issues.

HEALTH AND SAFETY IMPROVEMENT PLAN:

- ▶ LEADERSHIP AND ACCOUNTABILITY
- ▶ HEALTH AND SAFETY MANAGEMENT SYSTEM
- ▶ PEOPLE CAPABILITY
- ▶ EFFECTIVE EXECUTION
- ▶ TRANSPORT AND ROAD SAFETY



ACTION AREAS	WHAT WE SAID	WHAT WE DID
HEALTH AND SAFETY	Lost Time Injury Frequency Rate (LTIFR) 1.37 or less. Total Injury Frequency Rate (TIFR) 2.93 or less.	Neither target was achieved.
DIVERSITY AND INCLUSION	Setting ourselves gender targets of 20% females at management levels and 30% female 'future talent' (graduates, apprentices etc.) by 2020.	Established a Female Mentor Scheme following a workshop in 2017. First meeting of Diversity & Inclusion taskforce chaired by CEO, October 2017.
SUPPLY CHAIN	Assess 80% of high risk suppliers human rights, forced labour, child labour, working conditions and freedom of association to be in compliance to the Modern Slavery Act.	Delivered assessments in compliance with MSA statement and engaged both employees and suppliers through training programme.
COMMUNITY ENGAGEMENT	All extractive sites will have a Stakeholder Engagement Plan in place by 2020.	One open day held at Moorcroft Quarry.
SOCIAL PROGRAMMES (SEE BELOW)	260,000 BENEFICIARIES FROM OUR SOCIAL PROGRAMMES BY 2030 Number of people benefiting from: ▶ Labour hours volunteered during working hours. ▶ Donations of products or finance.	Across the year we reached 88,000 through all activities including: ▶ Concrete Rugby: Give Bullying the Boot.

WE ARE AMONGST BRITAIN'S HEALTHIEST WORKPLACES

Healthy You has been a successful Aggregate Industries programme since 2013. In November 2017, we were named as the ninth healthiest business to work for out of Britain's top 60 (in the category of large employer) and the 15th healthiest workplace in the Financial Times Britain's Healthiest Workplaces.

The Financial Times Britain's Healthiest Workplace Survey, which is now in its fifth year, recognises and ranks organisations with the healthiest workforces, based on nine different risk factors, including smoking habits, nutrition and physical activity. Organisations are also scored on their workplace wellness interventions, facilities and services.

The survey took account of the company's initiatives and services, and canvassed the views of just over 500 employees through an on-line anonymous questionnaires. One of the reasons why Aggregate Industries received this accolade was its Healthy You employee initiative, which provides advice and guidance on how to deal with a variety of real health issues both in and out of the workplace.



THE OVERALL HEALTH AND WELLBEING OF OUR EMPLOYEES IS A KEY PRIORITY FOR US AND, IN CONJUNCTION WITH THE CONTINUING FOCUS ON EXCELLENCE IN SAFETY PRACTICES, PLAYS A SIGNIFICANT ROLE IN OUR JOURNEY TOWARDS ZERO HARM TO OUR PEOPLE.

WE TRULY BELIEVE HEALTHIER PEOPLE ARE SAFER PEOPLE. TO BE RECOGNISED AS ONE OF THE COUNTRY'S HEALTHIEST WORKPLACES IS TRUE TESTAMENT TO THIS COMMITMENT AND THE RESULTS WE ARE SEEING FROM OUR HEALTHY YOU PROGRAMME.

Stephanie Kendrick
Healthy You lead at Aggregate Industries



MODERN SLAVERY

Slavery is not only to be found in other parts of the world, it exists in the UK and it is something that the construction sector has taken steps to address. We published our annual Modern Slavery Transparency Statement in June 2017.

As part of the statement, which can be viewed at www.aggregate.com, we demonstrate that we set and achieved the 2017 target to assess 80% of high risk suppliers, human rights, forced labour, child labour, working conditions and freedom of association practices to be in compliance with the Act.

On top of this we also developed training for our employees and our suppliers, and we launched additional on-site supplier audits during 2017.



The opening of our Modern Slavery statement:

AGGREGATE INDUSTRIES IS COMMITTED TO DOING BUSINESS FAIRLY AND ETHICALLY. WE SUPPORT THE AIMS OF THE MODERN SLAVERY ACT 2015 AND WE ALREADY HAVE A NUMBER OF POLICIES, ROBUST SYSTEMS AND PROCEDURES IN PLACE TO HELP ENSURE WE OPERATE AN OPEN, HONEST AND ETHICAL BUSINESS. BY IMPLEMENTING OUR POLICIES AND WORKING TOGETHER WITH OUR SUPPLIERS, WE AIM TO BE THE PARTNER OF CHOICE FOR OUR CUSTOMERS AND TO OPERATE OUR BUSINESS ETHICALLY AND SUSTAINABLY.



INVESTING IN FUTURE TALENT

2017 has been a really positive year for us in recruiting our future talent. In September, we welcomed nearly 60 new recruits into our organisation, across a range of development streams, including Graduates, Higher Apprentices and Advanced Engineering Apprentices. All are currently undertaking work related training and continuing their academic study at college or university. The Higher Apprentices are studying at the University of Derby, initially for a Foundation Degree in Mineral Processing, with the option to progress onto the Honours programme. Pictured above are a group of the new trainees.

WE HAVE RECRUITED THE FOLLOWING:

- ▶ 59 APPRENTICES
- ▶ 7 GRADUATES
- ▶ 7 PLACEMENT STUDENTS



THE SOCIAL PROGRAMME

One challenge of showing how we can create value from our community and stakeholder programmes is around how this can be measured. We have now implemented the LafargeHolcim Social Programme through our Stakeholder Engagement Plans and these support the globally strategic Social Investment Focus Areas: health, education, employment, infrastructure and environment.

Whilst some corporate social programmes measure inputs such as number of events, we aim to report on outcomes, measuring what we have done, how much we have contributed and the size of the population that has benefited.

COMMUNITY ENGAGEMENT

Community engagement continues to be critical to our success. From time to time people feel our performance is not satisfactory and we encourage them to share this view with us. Measuring the number and source of complaints remains a key performance indicator.

Complaints fell from 39 in 2016 to 26 in 2017 across all categories, with the majority of them related to transport and dust; blasting complaints were at a four year low. The number of complaints is only part of our approach to community relations.

We strive to be sure that we handle justified complaints effectively and in a way that reduces the chance of a repeat occurrence by doing our bit to eliminate the causes of complaints.



AS A NATIONWIDE BUSINESS WE ARE A NEIGHBOUR TO MANY DIFFERENT COMMUNITIES AND IT IS IMPORTANT TO US THAT WE CREATE SOCIAL AND ECONOMIC VALUE FOR THE PEOPLE AROUND OUR SITES. THIS IS WHY WE HAVE SET A TARGET TO ENSURE THAT OUR ACTIVITIES BENEFIT AT LEAST 260,000 PEOPLE BY 2030. WE AIM TO ACHIEVE THIS THROUGH COMMUNITY ENGAGEMENT, SPONSORSHIP, DONATIONS AND EMPLOYEE VOLUNTEERING ACTIVITIES.

Anna Cantwell
Social Value & Sustainable Procurement
Manager at Aggregate Industries



DIVERSITY AND INCLUSION

We have set ourselves gender targets of 20% females at management levels and 30% female 'future talent' (graduates, apprentices, etc.) by 2020.

We have established a Diversity & Inclusion Taskforce, comprising a cross section of our employees to represent the diverse businesses across our organisation. Chaired by our CEO and Organisation & HR Director the taskforce has designed a strategy that focuses on advancing women and promoting inclusion, diversity and equality in our workplace. Meeting quarterly, the taskforce will deliver the strategy through four key pillars:

- ▶ ATTRACT & RECRUIT
- ▶ RETAIN
- ▶ DEVELOP & MEASURE
- ▶ COMMUNICATION, ENGAGEMENT & CULTURE

Joanne Hankinson, Inclusion & Diversity Lead at Aggregate Industries, said: "When it comes to women in construction, we need to work harder to publicise the great career opportunities that exist for them, as they not only have the potential to be well paid but can also take advantage of greater flexibility. As an employer we recognise the value of having diverse teams to foster diversity of thought, innovation and creativity."

François Petry, CEO of Aggregate Industries, has taken the role as Chair of Diversity and Inclusion Working Group which meets regularly. Initial activities have included a Female Mentor Workshop and the establishment of a female network within the company. Fifteen female mentors have begun to work with others to share experiences and to support individuals to develop their talents. Over time this group is expected to grow.

Through each of the strategy pillars we are addressing our policies, employee benefits, HR processes and culture to ensure we can create a more inclusive company. We are continually reviewing and redesigning our recruitment process to attract more females into our 'traditional' male roles. In 2017, 25% of our higher apprentices were female and we recruited our first female electrical engineering apprentice.

During 2017 we also doubled our intake of female apprentices and graduates and gave all of these women a female mentor to allow them to see role models in our industry and organisation and to help them with the day to day challenges of developing their careers.

With an overall gender balance of 83:17 across all grades, there is clearly a long way to go, but the Taskforce and our employees will be actively pushing diversity and inclusion.



“

A FEMALE MENTOR SCHEME ALLOWS WOMEN TO WEAR THE SHOES AND WALK THE PATH ALREADY TAKEN.

I HOPE I CAN GIVE OTHERS INSIGHT, EXPERIENCE, BELIEF AND AMBITION TO SUCCEED AND OVERCOME OBSTACLES. IN TURN THIS LEADS TO A MORE GENDER BALANCED COMPANY AT ALL LEVELS. PROVIDING A MORE VARIED OUTLOOK AND DIVERSE MANAGEMENT STYLE TO DELIVER GREAT RESULTS.

Vicky Smith
Area Operations Manager for Ready-mixed concrete at Aggregate Industries

”

SUPPORTING AND HONOURING HEROES OF LEICESTERSHIRE

For more than a century, our headquarters have been in Leicestershire and we have been a part of the community, so our continuing support for Heroes of Leicestershire Awards is something we are proud to do.

Donna Hunt, Head of Sustainability at Aggregate Industries, commented: "We want to help in developing our neighbouring communities, so the Heroes of Leicestershire Community Building Award has a particular resonance with all of us. A building is so much more than just bricks and mortar – it is a place where people come together and maintain local connections that are vital to the wellbeing of a modern society."

In 2017 the winner was the Hermitage FM Coffee Lounge, which is close to our Bardon Hill offices. Other Community Building Award finalists this year were the Cotesbach Education Trust and The Pakistan Youth & Community Association in Leicester.

CONCRETE RUGBY: GIVE BULLYING THE BOOT

In last year's report we introduced Concrete Rugby, our partnership with Leicester Tigers. In 2017, as a result of growing concern over the increase in cyber-bullying amongst school children, we delivered a new initiative called Give Bullying the Boot.

During Anti-Bullying Week in November 2017, we visited local schools in Leicestershire to provide talks about bullying prevention, helping pupils identify the signs and what they should do if they or somebody they know is experiencing bullying. Pupils were also invited to share videos on social media, using #givebullyingtheboot, with their opinion on why bullying is so wrong and why we all have a responsibility to stop it.

Leicester Tiger players and staff from Aggregate Industries also posted videos with their feelings on the topic, some of which you can view at www.aggregate.com or continue to follow the initiative on twitter using the hashtag above.

THE IMPACT

A TOTAL OF 770 CHILDREN ACROSS LEICESTERSHIRE SCHOOLS TOOK PART IN SESSIONS LED BY LEICESTER TIGERS AND AGGREGATE INDUSTRIES.



ENGAGEMENT



BLUEBELL HOSPICE VOLUNTEERING

Five employees from Sheffield PFI spent two days painting, laying block paving and gardening at Bluebell Hospice in Rotherham.



AN ENGAGING DAY FOR SUPPLIERS

Learning about real life situations for H&S issues and Modern Slavery. Allowing good discussions on how Aggregate Industries and other suppliers deal with these issues.



DONATION FOR THE DAILY MILE

350 tonnes of Type 1 stone were donated to Croft CofE Primary School to create a one mile walking route to the school.

GARSDIDE SANDS BIKE RIDE

50 employees completed a 50 hour static bike ride to raise funds for A-T Society, enabling them to supply a bespoke trike for a local child.



MOIRA FURNACE MATERIAL DONATION

75 tonnes of Type 1 and 25 tonnes of 74-40mm aggregate donated to repair the canal footpath and car park.

LITTER PICKING VOLUNTEERING

Sustainability, Strategy, and Major Projects teams litter picked for a day along the River Soar.



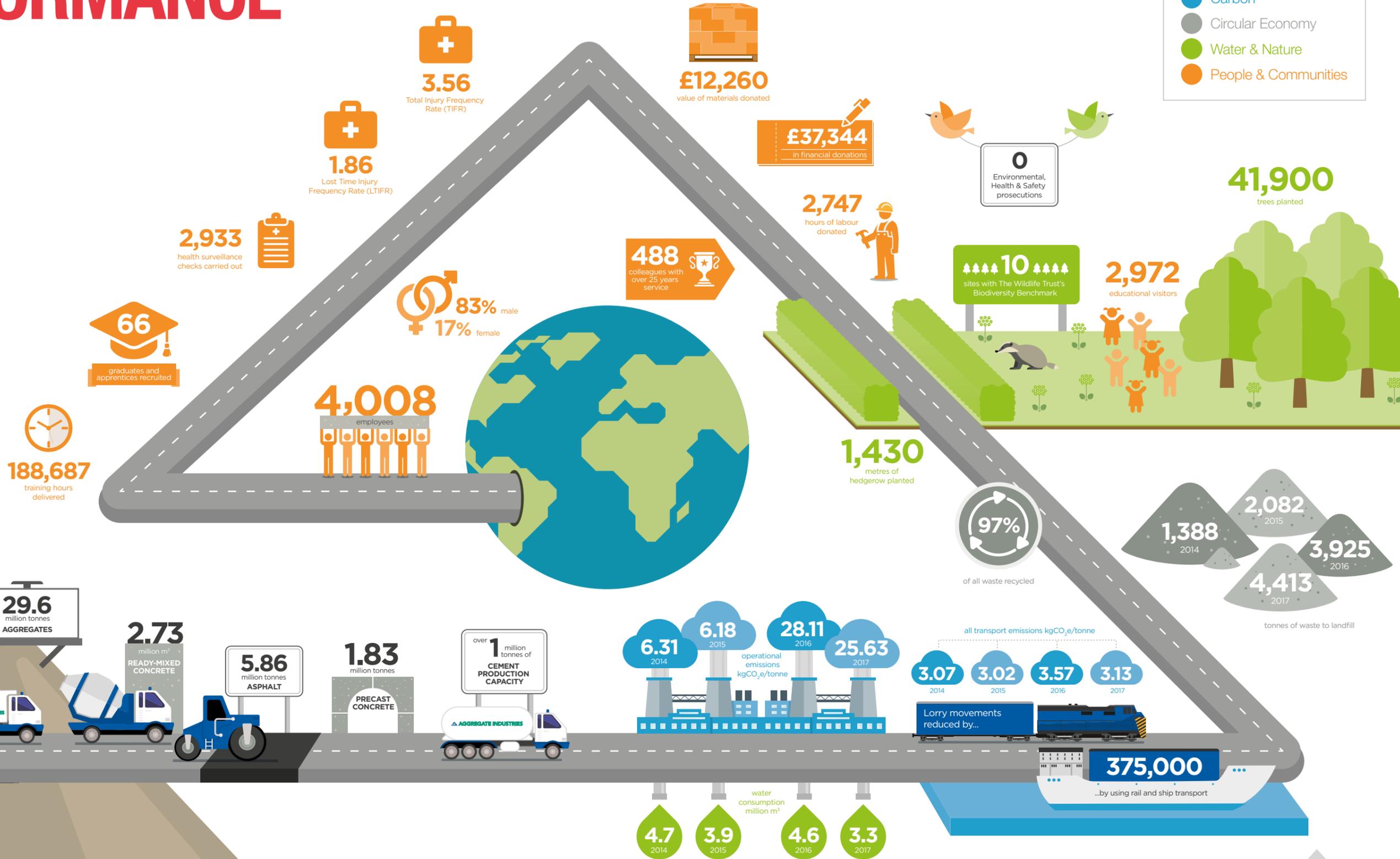
SHEFFIELD TO HEATHROW BIKE RIDE

A charity bike ride consisting of a two day cycle from Heathrow to Sheffield. 11 Managers from across the business took part in the event.



2017 PERFORMANCE DATA

- Carbon
- Circular Economy
- Water & Nature
- People & Communities



ENERGY & CARBON	2014	2015	2016	2017
Gas usage (MWh)	281,295	256,695	287,366	297,716
Electricity usage (MWh)	156,022	158,653	316,051	306,719
Liquid fuel - all grades (MWh)*	579,652	587,117	658,246	671,921
Waste derived fuels detail by type (MWh)*			456,580	525,353
Solid fuels (MWh)*			638,237	530,228
Process Emissions kgCO ₂ e/tonne**	6.31	6.18	28.11	25.63
Transport Emissions kgCO ₂ e/tonne	3.07	3.02	3.57	3.13
Total Emissions kgCO ₂ e/tonne	9.38	9.2	31.68	28.76

*First reported in 2016 for LafargeCement **From 2016 includes LafargeCement fuels & decarbonisation.

WASTE	2014	2015	2016	2017
Total waste to landfill – tonnes	1,388	2,082	3,925	4,413
Total waste recovered – tonnes	1,322	1,716	2,008	1,290
Total waste recycled including inert waste recycled – tonnes	104,832	104,683	124,677	147,101
Total waste produced – tonnes	107,542	108,481	130,610	152,804

RAW MATERIAL USE	2014	2015	2016	2017
Aggregates – million tonnes	10.59	11.43	11.35	11.5
Cement – tonnes	766,582	796,055	874,777	881,603
Pulverised Fly Ash (PFA) – tonnes	159,043	75,754	32,650	17,167
Ground Granulated Blast Furnace Slag (GGBS) – tonnes	300,752	388,469	431,347	445,437
Recycled asphalt – tonnes	545,152	609,700	596,075	745,845
Packaging – tonnes	12,822	15,783	15,178	14,072

PRODUCTION FIGURES	2014	2015	2016	2017
Aggregates – million tonnes	30.8	30.65	29.90	29.60
Ready-mixed concrete – million m ³	2.4	2.61	2.70	2.73
Asphalt – million tonnes	5.4	5.66	5.40	5.86
Precast – million tonnes	1.8	1.88	1.90	1.83
Secondary aggregates (processing) – million tonnes	0.4	0.26	0.20	0.22
Cement Production - million tonnes†			>1	>1

†We are not allowed to publish our production as part of the CMA order.

WATER	2014	2015	2016	2017
Discharge – surface m ³ *	106,665,939	100,040,459	110,342,228	100,409,401
Discharge – sewer m ³ *	230,506	230,506	258,611	226,856
Quarry dewatering m ³	19,648,688	16,943,259	19,876,604	14,613,217
Abstracted water m ³	3,406,072	2,499,924	3,377,389	2,109,113
Grey water m ³ (recycled process water)	725,178	761,202	611,845	618,556
Mains (potable) water m ³	612,699	628,413	638,187	594,181
Consumption – total m ³	4,743,949	3,889,539	4,627,421	3,321,850

*Based on maximum licensed discharge.

HEALTH & SAFETY	2014	2015	2016	2017
Fatalities (Employees, sub contractors and third party workers)	1	0	0	0
RIDDOR Major Injuries	3	3	4	6
RIDDOR >7 day LTI / other	7	2	6	7
Total Injury Frequency Rate (TIFR)	3.26	2.43	2.82	3.56
Lost Time Injury Frequency (LTIFR)	1.26	0.97	1.69	1.86
HSE Prosecutions	0	0	0	0
HSE Prohibition notices	0	0	0	0

PEOPLE & COMMUNITIES	2014	2015	2016	2017
Water complaints	0	4	3	0
Visual complaints	0	0	0	0
Transport complaints	2	11	14	11
Odour complaints	3	1	1	4
Blasting complaints	4	3	9	2
Dust complaints	8	8	3	8
Noise complaints	5	4	9	1
Open days	3	2	0	1
Number of visitors	2,076	1,898	1,048	2972
Recorded cash donations	£38,393	£83,462	£43,286	£37,344
Value of materials donated	£9,529	£57,275	£74,489	£12,260
Number of hours labour volunteered to community projects	1,035	814	2,721	2,747

EMPLOYEES, RECRUITMENT & TRAINING	2014	2015	2016	2017
% of employees receiving a regular review	94	93	96	94
Full time equivalent employees (FTE)	3,441	4042	4143	4008
Training hours per FTE Top and Senior Management*	10.6	10.43	10.31	10.23
Training hours per FTE Middle Management*	26	25.04	25.19	23.87
Training hours per FTE others*	55.1	52.17	53.41	53.18
Total hours of training per FTE*	50.53	46.6	47.69	47.09
Total hours of training*	173,886+	188340+	197590+	188687+
Leavers - Total FTE	560	457	541	759
Under 30	20%	21%	17%	19%
30 to 50	53%	46%	47%	38%
Over 50	27%	32%	36%	43%
Graduates recruited	9	4	5	7
Apprentices recruited	23	31	29	59
Industrial placements (1 year) new in 2016			9	7
Ethnic minority FTE	2.30%	2.5%	2.7%	3.2%
White FTE	82.20%	75.5%	80.1%	85.4%
Not disclosed FTE	15.50%	22.0%	17.2%	11.4%
Gender split male/female			83% / 17%	82.7% / 17.3%
Number of health surveillance checks carried out			2000	2933

*Based on the guided learning hours assigned by qualifications awarding bodies who were regulated by Ofqual.

VERIFICATION STATEMENT

Over the years, Responsible Sourcing has become an ever increasing part of the way that Construction Products Manufacturers have to operate. This has resulted in large numbers of manufacturers, involved in supplying the construction industry, opting for independent certification to the internationally recognised responsible sourcing certificate, BES 6001.

This standard contains a number of mandatory requirements and a number of optional requirements and depending upon the levels of achievement that the company can demonstrate, results in a possible score of Pass, Good, Very Good and Excellent rating.

By having certain Key Performance Indicator (KPI) independently verified, allows a company to achieve higher ratings.

NATURE AND SCOPE OF VERIFICATION

N.R.Richards Associates Ltd has carried out an independent verification of the KPIs reported in the 2017 copy of Aggregate Industries Sustainability Report, and can confirm that they have not, in any way, been involved in the preparation of the Sustainability Report.

The verification study has included a number of environmental and social issues which relate to specific clauses of BES 6001. The scope of the data verification included all Aggregate Industries sites listed on the main certificate, as well as the Lafarge cement and Lytag sites.

The verification process was carried out by visiting a number of the company sites that produce a range of products, interviewing relevant staff and examining paper and computer-based records in order to assess the accuracy and completeness of the information contained in the Aggregate Industries Sustainability Report.

The purpose of this verification exercise was to ensure that the information conveyed to stakeholder and other interested parties is accurate and supported by appropriate documented evidence.

The specific clauses of BES 6001 relevant to this verification exercise include the following:

- ▶ 3.4.1 Greenhouse gas emissions
- ▶ 3.4.2 Energy use
- ▶ 3.4.3 Resource use
- ▶ 3.4.4 Waste prevention and waste management
- ▶ 3.4.5 Water use and abstraction
- ▶ 3.4.8 Transport impacts
- ▶ 3.4.9 Employment and skills
- ▶ 3.4.10 Local communities.

In addition to these issues, the data verification exercise also included a review of Production figures and Health and Safety statistics.

STATEMENT OF THE INDEPENDENCE OF THE VERIFIERS

N.R.Richards Associates Ltd has been providing support to a large number of clients involved in the manufacture of concrete building products, since 2010. Although a small company, the team has in excess of 100 years experience in supporting companies in a range of services, including Environmental Management Systems (ISO 14001), Responsible Sourcing (BES 6001) and also a range of Quality Management issues (ISO 9001) and Health and Safety Management (OHSAS 18001, Achilles and CHAS).

N.R.Richards Associates Ltd are completely independent from Aggregate Industries and have no bias or conflict of interest.

The verification exercise was carried out by Norman Richards and Christine Morris, who both have experience of Responsible Sourcing in the concrete and admixture industry, and are both approved by the Building Research Establishment (BRE) as independent KPI data verifiers.

CONCLUSION

Based on the procedures followed by N.R.Richards Associates Ltd during this independent verification exercise, there has been no evidence that the data compiled in the Aggregates Industries Sustainability Report, for the period 1st January to 31st December, 2017, have not been obtained based on reliable basis, that the information is not adequately presented, or that significant deviations or omissions exist.

Norman R Richards

Managing Director
N.R.Richards Associates Ltd
3rd May 2018



ACCREDITATIONS & REGISTRATIONS



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EMS 96927



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