RIGHT AT THE HEART OF SUSTAINABILITY
For Aggregate Industries, sustainability is not only about the continued success of our company, but also about the impact our products have on people, the environment and the economy. This is at the forefront of our minds as we look forward to the UK market in the decades to come. As part of LafargeHolcim, it is our desire to make a positive contribution to the built environment now and for future generations.

As a major supplier of building materials, it is always important to us to provide products that are good for people, the environment and the economy. This is why we take our responsibility to externally share progress on our specific targets, which are fundamental to achieving and maintaining the wellbeing and safety of our people, the environment and the economy. This is why we produce an annual Sustainability Report to inform people and the communities in which we operate.

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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, 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 to build better relationships, develop innovative products and services and enable low carbon sustainable construction.

**CLIMATE**

We reduce our impact on climate change through the development, manufacture or promotion of innovative and sustainable products and solutions. We optimise the use of energy and promote energy efficiency, and, where practicable, the use of renewable energy sources and energy recovery. We aim to reduce the use of non-renewable resources and, where feasible, use alternative fuels and biomass.

**WATER & NATURE**

We minimize our impact on water resources by reducing water withdrawal through the use of recycling, the promotion of water efficient practices and a responsible management of water discharges. We implement biodiversity management plans for all active extraction sites and work to protect, restore and enhance biodiversity habitats and species on and around our sites. We develop rehabilitation / restoration / reclamation plans that take into account the needs and expectations of our stakeholders and, where feasible and relevant, foster wildlife habitats and contribute to the conservation of species that coexist with our land holdings or create wetlands, build dry stone walls and provide natural landscapes and habitats for plants and animals to thrive.

**CIRCULAR ECONOMY**

We take a whole life approach when considering our impacts and opportunities. In addition to considering the extraction, production, manufacture and transport impacts of our products, we also consider the performance of our products in use and the opportunities for reuse or recycling at end of use.

**PEOPLE & COMMUNITY**

We aim to make a positive impact in the communities where we operate. We are dedicated to creating shared and sustainable value for our stakeholders. We are committed to being a responsible partner, effectively contributing to improving the quality of life of the members of our workforce, their families and the communities around our operations. Our people and suppliers are the key to our success and integral to our ability to deliver a sustainable and innovative business. We promote a workplace that is safe, healthy, diverse, inclusive and respectful. We also encourage our teams to reach their full potential through ongoing learning and development at every level within the business. We actively contribute to the social and economic development of the communities in which we operate through community engagement and employee volunteering. We are involved in community liaison meetings, we hold open days for the general public, we visit schools and we provide resources, time and materials for community projects.
We currently base the decisions about what is material to us on the process carried out by our parent company LafargeHolcim. The LafargeHolcim stakeholders material issues were spread across environment, social and governance issues as well as the company’s value chain, from supplier management to sustainable products. The LafargeHolcim external stakeholders concluded that due to the size of the company and the impacts, a leadership position was required on most material issues to drive better performance in these areas.

The 2016 report highlights our performance in our first full year of operation following our integration with LafargeHolcim and provides the progress and commentary against our new sustainability targets to take the business to 2020 with a longer term strategic vision of where we want to be by 2030.

Our commitments focus on the themes that are most material to our business: Climate, Water & Nature, Circular Economy, People & Communities and these 4 themes form the structure of this report.

This report covers the reporting period of January to December 2016 and includes information from all our operations, now including Lafarge Cement worldwide. To provide assurance releasing the changes to our organisational shape and our new 2020 targets, the key data in this report has been reviewed by an independent verifier.

As part of a major global business, this report compliments and should be read in conjunction with the LafargeHolcim Annual Report and the LafargeHolcim Sustainable Development report as these are highly relevant in terms of complete accountability and disclosures.

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<th>MATERIALITY</th>
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<td>LOW</td>
<td>Customer relations and customer satisfaction</td>
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<td>Employee diversity and inclusion</td>
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<td>Employee training and development</td>
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<td>Employee relations and engagement</td>
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<td>Corporate governance</td>
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<td>Pricing integrity and anti-trust compliance</td>
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<td>MEDIUM</td>
<td>Local community engagement and management of local community impacts</td>
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<td>Biodiversity and ecosystems management</td>
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<td>MEDIUM</td>
<td>Sustainable products and innovation</td>
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<td>LOW</td>
<td>Waste management</td>
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<td>Material recycling and circular economy</td>
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Our commitments focus on the themes that are most material to our business: Climate, Water & Nature, Circular Economy, People & Communities and these 4 themes form the structure of this report.
At Aggregate Industries we will continue our mission to cut our net CO2 emissions of all products. With a strong portfolio of sustainable products and services, we will help our customers avoid CO2 emissions released from buildings and infrastructure over their whole lifecycle.
We’ve defined specific targets which are fundamental to achieving and maintaining sustainable climate goals.

By 2030 LafargeHolcim want to produce 42% less net CO₂ per tonne of cement than they did in 1990. For our cement plants this represents a 20% reduction in CO₂ per tonne, using 2016 as the reference year. This will be achieved by optimising the use of secondary materials in blended cements, reusing carbon based fuels and through the implementation of energy efficiency improvements.

The addition of the cement operations to the UK business has seen our energy profile and mix change significantly compared to early 2015. Our cement plants are utilising an increasing amount of waste-derived fuels and sustainable biomass to provide up to 48% of the plants’ energy demand – making our plants net importers of waste and helping to avoid waste going to landfill.

Overall we have seen a 5% decrease in electricity consumption compared to 2015. However, our use of natural gas and liquid fuels has seen our overall process emissions intensity increase this year. We continue to purchase 99% of our electricity from renewable sources, as well as generating our own electricity from renewable sources.

### Targets to 2020

**5% p.a. operational energy intensity improvement** (18.5% total improvement by 2020)

**5% p.a. operational GHG intensity improvement** (18.5% total improvement by 2020)

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

### Climate

We are committed to tackling climate change. Our climate targets reflect that commitment. We have set ourselves two distinct targets as a step towards our 2030 goals.

We are determined to reduce our emissions per tonne by improving the energy efficiency of our production facilities and through the increased use of by-products and waste-derived resources as raw materials and fuels. We continue to focus on providing our customers with lower carbon, resource efficient products and solutions.

**Operational targets**

**Embodyed carbon**

We carry out carbon calculations on our products to allow customers to make informed decisions about the products they require.

We measure the embodied carbon in our products through the use of third party verified Environmental Product Declarations (EPD).

During 2017 we will publish more EPDs for our products and will continue to provide our customers with carbon calculations for our products.

**Transport impacts**

Delivering our products creates carbon emissions from the fuel used by vehicles. We’re committed to removing as much transport from roads as possible through the use of rail and water transport. Our aim is to maximise the distribution of aggregates by rail and ship, but due to the nature of asphalt and ready-mixed concrete (RMX) road transport is the only real option.
In 2015, Aggregate Industries were the first UK heavyweight construction company to publish a suite of Environmental Product Declarations (EPD) for our paving and construction products. In 2016 we added a new EPD for the launch of the innovative Eco Countryside.

During 2016, we collaborated with our concrete admixture supplier, BASF Construction Chemicals, to produce EPD for three of our proprietary ready mix concrete products. The BASF LCA tool is unique in that it allows two concrete mix designs to be analysed simultaneously in order to allow immediate comparisons of Global Warming Potential (CO₂) and 23 other parameters.

Aggregate Industries have chosen to limit the scope of our EPD to the assessment of the production stage only (cradle-to-gate) and they are based on single production units. We believe that this gives our customers a true picture of the environmental impacts of a product on the elements we control, in addition, we are able to produce EPD for the full life cycle of a product on the elements we control. In addition, we are able to produce EPD for the full life cycle of a structure or building, which is based on information supplied by the client rather than generic data.

We also offer our customers a CO₂e calculation service using Product Carbon Footprinting (PCF) developed for us by the Carbon Trust. This allows our Sales and Technical staff to calculate the embodied carbon within a matter of hours of receiving requests from customers.

The PCF uses the mix design, transportation of raw materials, plant operations and delivery to site to calculate the CO₂e of a concrete mix. As these calculations are based on each mix design, the calculations are bespoke per project and are not based on generic information. By using this calculation facility prior to a project starting, customers can be confident they are ordering a concrete mix that has the lowest possible embodied CO₂.

BASF are proud to be working with Aggregate Industries using our Life Cycle Analyser tool. By working together, we have released the first BS EN 15804 compliant EPD for ready-mixed concrete. Over the next few years there will be an increasing focus on the LCA and EPD of construction products; this will create a step change in materials specification and lead to more sustainable products and solutions for the wider construction market.

Dr Geoff Hickey, Corporate Affairs and Sustainability Director, BASF.

WHAT WE DID

We teamed up with energy specialists Open Energi to identify our activities that fit the dynamic frequency response management profile. In other words, activities where we can safely automate the switching on or off of power – without affecting quality and in order to help balance the national electricity grid.

The first equipment we included in the scheme was our bitumen tanks which heat bitumen for making asphalt. We found that turning off our bitumen tank heaters in response to short-term fluctuations in supply and demand doesn’t affect the quality of our product at all. Well-maintained and insulated bitumen tanks can be switched off for over an hour with only a one-degree change in temperature. The tanks’ temperature bands are set as control parameters; if the temperature is within those bands switching can take place automatically.

The average duration of a switch is less than five minutes. Essentially the intervention is invisible and has no impact on our operations, yet we are providing a valuable service to National Grid 24 hours a day, 365 days a year. Equipment was initially fitted to 133 of our bitumen tanks which heat bitumen for making asphalt. And thanks to Open Energi’s metering and monitoring equipment, we have new data which can help us identify where the bitumen tanks may be inefficient or not running correctly, which in turn we can use to make adjustments to achieve even more energy savings.

WHAT WE DID

We are always looking for ways to reduce our energy consumption and costs, and at the same time reduce our emissions. When we found out that Demand Side Response (DSR) could help us do all these things, we became very interested.

Embracing this innovative technology has helped us achieve a 15% per year reduction in demand for the grid in terms of emissions that is almost 50,000 tonnes of CO₂. Demand Side Response is an energy management system that allows businesses to switch on and off electricity, on an hourly basis, at certain times of the day.

When electricity demand is forecast to rise above a certain level, National Grid asks DSR customers to reduce their energy consumption. In return, they are paid for the power they don’t use.

In 2017 we extended the scheme to include 15 quarry pumps at two quarries, and we are also reviewing all of our sites, operations and equipment to identify further activities to bring into the scheme.

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We’re really pleased to be part of the DSR scheme with Open Energi and we want to help get the message out to other companies. Through our partnership with the Living Grid network, we share our experience of this emerging technology and encourage others to take up the opportunity too. Together we can create a positive change in the energy system that extends beyond our organisation.

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MAJOR IMPROVEMENTS MADE TO A556 BOWDON TO KNUTSFORD

Collaborative relationships are at the heart of our success, especially when it comes to our innovative solutions. Our early involvement in the A556 project allowed us to plan both an environmentally friendly materials solution, whilst keeping logistical carbon emissions as low as possible.

The perfect example of this is our work improving a 4.5 mile stretch of the A556 by de-trunking the old A556 and constructing a new dual carriageway section of road between north Cheshire and south Manchester. Before the formal tender process began we were invited by Highways England to join competitors and designers for a unique industry workshop with the shared goal of uncovering the optimum scheme solution that would provide significant efficiencies to Highways England.

This early involvement allowed us to fine tune these ideas when we eventually won the contract, developing an innovative, environmentally friendly concept using a circular economic model. WHAT WE DID

The idea was a composite paving solution, an approach which offered two key advantages. Combining Cement Bound Granular Mixture (CBGM) sub-base with a flexible asphalt pavement would provide both the reduced depth necessary to deal with a challenging subgrade, alongside the opportunity to recycle materials. We used a Vogele Super 1803-3i paver, with tier-4 diesel with AdBlue® to minimise harmful diesel emissions with no compromise on performance or quality of the finished pavement. The paver worked at 108db which reduced the noise impact on the local community.

Establishing a mobile batching plant using SiteBatch Technologies® allowed us to save an additional 20% of CO2e emissions.

WHAT WE DID

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The composite CBGM design was able to encapsulate hazardous planings. We were able to use surplus stock from our Sheffield PFI contract. Since road emissions present a core part of our carbon footprint, we wanted to ensure the environmental benefit of recycled materials wasn’t undone by the transport logistics. Our solution was to move the recycled planings using vehicles returning to our Millom quarry in Cumbria. Establishing a mobile batching plant using SiteBatch Technologies® allowed us to save an additional 20% of CO2e emissions.

WHAT WE DID

FLAT-ON-HOT PAVING

Highways England Pavement Efficiency Build Sub-Group identified pavement construction joints as the leading cause of pavement failure. Working alongside Kier Highways, we collectively developed an innovative solution to assist Highways England in achieving £1.2bn of efficiency savings to support its Road Investment Strategy.

WHAT WE DID

We worked with Kier Highways to identify the ‘Hot-on-Hot’ inline paving process. This solution reduces joints in pavement construction and improves pavement performance and longevity, ultimately delivering value for money to the taxpayer.

 Inline Paving is the process whereby both asphalt layers are placed directly on top of one another ‘hot-on-hot’, without using a bond coat, in a single pass. The idea is to link the material layers (Binder and Surface course) together and form a tighter bond between them. They are being laid directly over one another whilst hot.

The process is robust and enables changes to be made to the original design whilst maintaining and enhancing its performance. Although specialist training was required for Supervisors and Operatives relating directly to the new process and equipment. We used core resources, coupled with revised scheme-specific method statements, training and pre-shift induction processes.

RESULTS

During the trial stage, we collected positive data:

• A stronger interlocking bond between hot Binder and Surface course layers
• Material savings (reduced surface course volumes and bond coat)
• A joint-free homogeneous pavement, resistant to water ingress damage
• Higher shift output
• More than 700 tonnes of pavement was laid in just over four hours!

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It is important for Aggregate Industries to support construction techniques and systems that use concrete as their main structural medium, while providing exceptional thermal and air-tightness properties for new house-building projects. We want to reduce our CO₂ emissions, which meant driving down the number of lorries delivering materials via road, but ensuring that we are not compromising on our service to customers.

Houses constructed using these methods give the occupants high levels of thermal comfort together with low energy bills, attractive benefits for all homeowners but particularly important for low income occupants and social housing clients.

WHAT WE'RE DOING

As part of her Engineering Doctorate thesis, researcher Eirini Mantesi is undertaking a major evaluation of the energy consumption of Twiga Lodge in Surrey, newly built using Insulated Concrete Formwork (ICF) and constructed to high levels of thermal efficiency and air-tightness. This will form part of a unique research project providing invaluable data to allow comparisons to be made between software predicted performance and “as-built” performance and is the first research project of this type in the UK. Twiga Lodge is designed to achieve near to Passivhaus levels, it is a two-storey, three-bedroom home, with a floor area of approximately 250m². The research data provides an invaluable and accessible snapshot of how a building actually performs over an extended period of time and the comparisons made with simulation software can then be made and analysed accordingly.

WHAT WE DID

In order to achieve this goal we moved as much of our logistics from road to rail and sea as we could. Over the year we transported over 10 million tonnes of aggregates by ship and a further 4 million by rail. Along with our major aggregate import terminals in Kent, Essex and Liverpool and their associated concrete plants we also have two minor delivery wharfs with Concrete plants (both using aggregates delivered by ship from our Caistona quarry), these are our new plants at Leith Docks serving the Edinburgh market and our newest plant at Barrow in Furness in Cumbria. The plant at Barrow has been built specifically to supply the BAE Systems project to upgrade the submarine construction yard located in the heart of Barrow. This large project includes an extension to the main production building (289m long x 53m wide x 59m high) along with engineering workshops and a range of other buildings and facilities. The concrete for the project will be supplied from our new wharf side plant which uses aggregates delivered by ship directly to the wharf. The location of the plant has allowed us to reduce our impact on the environment by eliminating road deliveries of aggregates, the location of the plant also means concrete deliveries do not use the local road network alleviating congestion on the roads in Barrow town centre.

RESULTS

Several of our plants achieved production milestones in 2016. Our plants at Heathrow and Sheffield – both less than three years old – produced over 1 million tonnes of asphalt, while our London Concrete plants produced over 1.25 million m³ of concrete – all of them using aggregates delivered by ship and rail.
As water scarcity and flooding are increasingly important issues for society, our concern for responsible water use and management goes beyond our operational boundaries. We are committed to showing a positive impact, by reducing our own water consumption and by using current and former quarries as flood-relief areas.
FOCUS AREAS

OUR TARGETS

We aim to minimize our impact on water resources by reducing water withdrawal through the use of recycling, the promotion of water efficient practices and a responsible management of water discharges.

We implement biodiversity management plans for all active extraction sites and work to protect, restore and enhance biodiversity habitats and species on and around our sites. We develop rehabilitation / reclamation plans that take into account the needs and expectations of our stakeholders and, where feasible and relevant, fosters wildlife habitat creation and contributes to the conservation of species. Across our land holdings we also create wetlands, build dry stone walls, plant trees and provide natural landscapes and excellent habitats for plants and animals to thrive.

TARGETS TO 2020

5% 5% F&A WATER INTENSITY REDUCTION

100% ACTIVE QUARRIES WITH BIRS IN PLACE (BIO-DIVERSITY INFORMATION RECORDING SYSTEM)

YEAR ON YEAR IMPROVEMENT IN NUMBER OF VALIDATED COMPLAINTS

WATER MANAGEMENT

To help us reduce our water consumption we are guided by the LafargeHolcim Water Directive that sets rules and regulations for managing water in a responsible manner. It also sets the framework for appropriate actions to manage risks and makes a positive contribution to water resources and ecosystems. The reduction in water consumption will be achieved by increased use of recycled or grey water, the promotion of water efficient practices and responsible management of water discharges.

PLACES FOR NATURE

We will implement biodiversity management plans for all extraction sites and work to protect, restore and enhance habitats and species on and around our sites. The rehabilitation plan for extraction sites will take into account the needs and expectations of our stakeholders. At smaller production sites (for example, concrete and asphalt sites) we will create “places for nature” to create habitats to encourage wildlife, examples include bird boxes, bug hotels or small areas of planting.

BIODIVERSITY INDICATOR REPORTING SYSTEM (BIRS)

Our positive contribution to ecosystems is driven by the LafargeHolcim Biodiversity Indicator Reporting System (BIRS). This was developed over 3 years with a panel of experts from the International Union for the Conservation of Nature (IUCN).

The BIRS methodology requires annual surveys of site habitats that generates a numerical biodiversity score per site. Over time we expect each site score to increase, while extraction is taking place scores may be reduced before increasing as restoration takes place to create an enhanced landscape.

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YEAR ON YEAR IMPROVEMENT IN NUMBER OF VALIDATED COMPLAINTS

WATER MANAGEMENT

To help us reduce our water consumption we are guided by the LafargeHolcim Water Directive that sets rules and regulations for managing water in a responsible manner. It also sets the framework for appropriate actions to manage risks and makes a positive contribution to water resources and ecosystems. The reduction in water consumption will be achieved by increased use of recycled or grey water, the promotion of water efficient practices and responsible management of water discharges.

PLACES FOR NATURE

We will implement biodiversity management plans for all extraction sites and work to protect, restore and enhance habitats and species on and around our sites. The rehabilitation plan for extraction sites will take into account the needs and expectations of our stakeholders. At smaller production sites (for example, concrete and asphalt sites) we will create “places for nature” to create habitats to encourage wildlife, examples include bird boxes, bug hotels or small areas of planting.

BIODIVERSITY INDICATOR REPORTING SYSTEM (BIRS)

Our positive contribution to ecosystems is driven by the LafargeHolcim Biodiversity Indicator Reporting System (BIRS). This was developed over 3 years with a panel of experts from the International Union for the Conservation of Nature (IUCN).

The BIRS methodology requires annual surveys of site habitats that generates a numerical biodiversity score per site. Over time we expect each site score to increase, while extraction is taking place scores may be reduced before increasing as restoration takes place to create an enhanced landscape.

5% F&A WATER INTENSITY REDUCTION

100% ACTIVE QUARRIES WITH BIRS IN PLACE

YEAR ON YEAR IMPROVEMENT IN NUMBER OF VALIDATED COMPLAINTS

TARGETS TO 2020

Our positive contribution to ecosystems is driven by the LafargeHolcim Biodiversity Indicator Reporting System (BIRS). This was developed over 3 years with a panel of experts from the International Union for the Conservation of Nature (IUCN).

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5% F&A WATER INTENSITY REDUCTION

100% ACTIVE QUARRIES WITH BIRS IN PLACE

YEAR ON YEAR IMPROVEMENT IN NUMBER OF VALIDATED COMPLAINTS

FOCUS AREAS

OUR TARGETS

We aim to minimize our impact on water resources by reducing water withdrawal through the use of recycling, the promotion of water efficient practices and a responsible management of water discharges.

We implement biodiversity management plans for all active extraction sites and work to protect, restore and enhance biodiversity habitats and species on and around our sites. We develop rehabilitation / reclamation plans that take into account the needs and expectations of our stakeholders and, where feasible and relevant, fosters wildlife habitat creation and contributes to the conservation of species. Across our land holdings we also create wetlands, build dry stone walls, plant trees and provide natural landscapes and excellent habitats for plants and animals to thrive.

TARGETS TO 2020

5% 5% F&A WATER INTENSITY REDUCTION

100% ACTIVE QUARRIES WITH BIRS IN PLACE (BIO-DIVERSITY INFORMATION RECORDING SYSTEM)

YEAR ON YEAR IMPROVEMENT IN NUMBER OF VALIDATED COMPLAINTS

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5% F&A WATER INTENSITY REDUCTION

100% ACTIVE QUARRIES WITH BIRS IN PLACE

YEAR ON YEAR IMPROVEMENT IN NUMBER OF VALIDATED COMPLAINTS

TARGETS TO 2020

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Aggregate Industries are committed to the sustainable use of water in all its operations. Some are more challenging than others, however they all managed to protect water and biodiversity. Glensanda quarry shows the effort we will go through to achieve this.

Understanding how water flows through our sites is an important element of managing a modern quarry and can be complex. In 2016, Aggregate Industries conducted in-depth research into the water balance of our quarry at Glensanda.

Located on the Morvern peninsula in Scotland, Glensanda covers over 9 square kilometres and receives an annual average rainfall of 7.5mm per day (2.73 metres per year). This rainwater is critical not only to the biodiversity and people living and working on the site, but also to our overall operation. Rainwater is the only source of water available for use on the site and ensuring our use of it is sustainable over time is of vital importance.

To aid this we have installed water monitoring equipment at eight key locations, which has been challenging as the equipment has to withstand extreme weather and the occasional deer with a liking for cables, which means all installation have to be reinforced to withstand both of these forces of nature.

We have used this research to further enhance our understanding of the sites 6 distinct water catchments. Each has unique values and uses, including supplying the sites accommodation blocks and offices with clean, safe potable water for utilization in production processes, the creation of biodiversity habitats at the same time while maintaining an ecological system that supports the existing wildlife.

In the future having this understanding of the nature, quality and flows of the site water resources and what impacts our activities are having on it will continue to have a direct impact on how we manage this water resource at this important site. Coupled with our extensive metering project it allows us to actively protect and enhance water quality and the biodiversity values of all of our water features both now and for the future.

<table>
<thead>
<tr>
<th>Year</th>
<th>Abstracted Water (m³)</th>
<th>Mains (Potable) Water (m³)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2015</td>
<td>2,499,924</td>
<td>628,413</td>
</tr>
<tr>
<td>2016</td>
<td>8,210,031</td>
<td>638,187</td>
</tr>
</tbody>
</table>

+70% +2%
Biodiversity is an important aspect of our whole business.
 Aggregate Industries is a member of LafargeHolcim Group and biodiversity is a key component of the Group 2030 sustainable development ambitions. We take our responsibilities very seriously where our operations can impact on local areas, especially where habitats are fragmented or where infrastructure have impacted habitats.

A great example of our care and attention in this area is the Charnwood Forest in Leicestershire. The Charnwood Forest is split by the M1 motorway. It’s also where we have extensive land holdings at Bardon, a working quarry producing 3 million tonnes of aggregates a year and where we are currently spending £80 million on a major extension of the quarry.

As well as large-scale initiatives, we work with various local and national conservation groups at a number of our sites. One such example is the Kingskerswell Natural History Society who hold work parties at our Stoneycombe quarry in Devon.

**WHAT WE’RE DOING**

**Bardon Hill Site of Special Scientific Interest (SSSI)** comprises remnants of the once extensive Charnwood Forest heaths, including both heathland and woodland, as well as an interesting invertebrate fauna. Our SSSI is lowland heathland and is a priority habitat in Leicestershire.

Since 2003 we have been managing the site with the Leicestershire and Rutland Wildlife Trust and The Conservation Volunteers. The management works involve grazing with rare breed sheep and cattle between March and September, and a winter programme of clearance of birch scrub within the heathland.

**RESULTS**

We are linking a substantial landholding via wildlife corridors to enable wildlife to flourish in an area containing several sites of special scientific interest (SSSI) including Bardon Hill. We are creating a healthy environment, rich in geology, wildlife and wild places.

**WHAT WE’RE DOING**

The area is threatened by scrub encroachment, so we have joined together with the Society and Butterfly Conservation to create favourable habitats for the Grizzled Skipper by holding work parties to clear scrub.

**RESULTS**

The population of the Grizzled Skipper has been monitored and the results are encouraging. Moving forward we are liaising with Butterfly Conservation in planning the restoration of an area of the quarry to limestone grassland which it is hoped will become another grizzled skipper habitat.

By tailoring our management of the site, we have also managed to create a diverse habitat that will support many other species of flora and fauna.
At Aggregate Industries, we take a whole-life approach when considering our impacts and opportunities of our products and activities. In addition to considering the extraction, production and transportation impacts of our products, we consider incorporating non-primary materials into the potential to recover, reuse and recycle products at end of life.
Our focus on the circular economy drives the efficient use of natural resources throughout their life cycle. There are a number of ways in which we are improving resource efficiency.

Whenever feasible we aim to minimize the generation of waste in the first instance by focusing on design, or developing products that have greater durability or longevity in use. We recover and recycle waste materials and look for opportunities to increase the amount of recycled content in our products.

We have access to LafargeHolcim’s global research and development facility to help us develop more innovative, resource and energy efficient products and solutions for our customers.

**FOCUS AREAS**

**OUR TARGETS**

Our ambition is to send zero waste to landfill.

**TARGETS TO 2020**

Year on year reduction to hazardous and non-hazardous waste to landfill intensity (kg/tonne)

Year on year reduction to inert waste to landfill intensity (kg/tonne)

**IMPROVED PERCENTAGE OF RECYCLED MATERIALS USED IN OUR PRODUCTS**

Total of 2.1 million tonnes reclaimed material used

---

**ZERO WASTE TO LANDFILL**

At our manufacturing sites and offices we have restructured our collection and recycling facilities to better reflect the nature of wastes being generated from these sites. We are continuing to strive towards our target of zero waste to landfill and we are working closely with our waste management service providers to increase our material recovery and to identify the sources and nature of our non recoverable waste materials. In this way we plan to reduce the volumes of non recyclable materials entering our waste stream.

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**FUEL FROM WASTE**

At Aggregate Industries we are committed to sustainable and environmentally sound methods of disposal for all our waste including the wastes we use as fuel. We are actively sourcing waste as fuels from sources which have undergone effective material recovery prior to sending this material to our cement sites, where it is used as fuel for cement production. These fuels consist of a wide range of materials from wood and domestic waste to sewage sludges and tyres. Europe produces 350 million waste tyres each year, with only a limited market for their disposal. Working with GeoCycle, we are committed to identifying more sustainable and carbon efficient fuels.

---

**CONSTRUCTION & DEMOLITION WASTE**

We will take construction and demolition waste (CDW) from redundant buildings and infrastructure to produce a recycled aggregate that can be used to replace virgin aggregates. Our aim is to produce a material that can be used in the whole construction chain, not just as low grade fill material.

At our asphalt plants we will take worn out roads and reuse the aggregates and bitumen to produce new roads, reducing the embodied carbon of the new road.

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**CIRCULAR ECONOMY**

**OUR AMBITION IS TO SEND ZERO WASTE TO LANDFILL**

**YEAR ON YEAR REDUCTION TO HAZARDOUS AND NON-HAZARDOUS WASTE TO LANDFILL INTENSITY (KG/TONNE)**

**YEAR ON YEAR REDUCTION TO INERT WASTE TO LANDFILL INTENSITY (KG/TONNE)**

**IMPROVED PERCENTAGE OF RECYCLED MATERIALS USED IN OUR PRODUCTS**

**TOTAL OF 2.1 MILLION TONNES RECLAIMED MATERIAL USED**

---

**YEAR ON YEAR REDUCTION TO HAZARDOUS AND NON-HAZARDOUS WASTE TO LANDFILL INTENSITY (KG/TONNE)**

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**IMPROVED PERCENTAGE OF RECYCLED MATERIALS USED IN OUR PRODUCTS**

**TOTAL OF 2.1 MILLION TONNES RECLAIMED MATERIAL USED**
Ashley Farmer, one of our Higher Apprentices, was responsible for a project to improve Bardon Hill quarry’s waste management.

The site had 75 individual general waste containers kept in 13 different locations on the site. The problems this created were:

- Unnecessary cost of waste containers and frequent uncoordinated collections.
- Prolonged visits of waste collection vehicles, and associated safety risks.
- Waste containers missed and left un-emptied.
- Overflowing containers when the more remote ones were not emptied.
- Poor segregation of waste due to lack of business unit ownership.

Ashley Farmer managed the whole project including developing toolbox talks and communicating the project to staff across the Bardon operation.

The new system is much improved with clear collection points, fewer containers and where needed larger containers. The waste system is now supporting sites operations, reducing risk and saving us money.

RESULTS

<table>
<thead>
<tr>
<th>% REDUCTION</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>10%</td>
<td>in site total non hazardous waste generated and 100% of hazardous waste being recovered or recycled.</td>
</tr>
<tr>
<td>30%</td>
<td>in container locations.</td>
</tr>
<tr>
<td>35%</td>
<td>in waste containers on site, replacements are all of appropriate size and type.</td>
</tr>
</tbody>
</table>

CLEANER, SMARTER, CENTRALISED STORAGE BAYS with clear ownership and robust policing

BETTER SIGNAGE to reduce mixed waste dispose.

CEMENT KILNS FIRED BY WASTE

The use of waste to fuel cement kilns is not new, but until 2016 the Cookstown plant relied on traditional fuels. Since becoming part of Aggregate Industries this has changed.

After signing an agreement with Northern Ireland’s Environment Minister Mark H. Durkan in 2015 our Cookstown Cement site has invested in the infrastructure to start utilising alternative fuels as a replacement for traditional fossil fuels. Trials of alternative fuels started in 2016. They demonstrated that the concept was viable and it would allow Cookstown to reduce carbon emissions by burning less fossil fuel in the kiln. The fuel is used to heat the limestone up to 1450°C to produce clinker, the main component of cement.

These early trials used plastic waste derived from old cars and domestic non recyclable waste, both were previously sent to landfill. Other non fossil fuels will be trialled and if successful used in due course. The alternative fuels produce up to 60% less carbon emissions compared to coal. During an average year we expect to save approximately 10,000 tonnes of carbon emissions at Cookstown plant and divert a similar tonnage of waste away from landfill.

Whilst we would all like to see our waste resources being recovered for direct reuse this is not currently practical and burning of fuels derived from waste has some distinct advantages over other methods of disposal. The high temperatures completely destroys the waste materials, which avoids the formation of dioxins and furans. It leaves no residue that needs to be landfilled, as the ash reacts with other components to form the manufactured product. Co-processing of waste is an ideal solution to the waste problem that involves no risks to the environment.
Our people and the communities in which we operate are important to us. We are committed to being a responsible partner, effectively contributing to improving the quality of life of the members of our workforce, their families and the communities around our operations.
FOCUS AREAS

OUR TARGETS

We are committed to being a responsible partner, effectively contributing to improving the quality of life of the members of our workforce, their families and the communities around our operations.

Health and safety is our overarching value and continual improvement helps us towards our ultimate goal of ‘Zero harm’ and achieving a safe and healthy workforce.

We promote a workplace that is safe, healthy, diverse, inclusive and respectful. 25% of our graduates and 33% of our higher apprentices recruited this year were female which is encouraging progress.

We actively contribute to the social and economic development of the communities in which we operate through community engagement and employee volunteering. We are involved in community liaison meetings, we hold open days for the general public, we visit schools and we provide resources, time and materials for community benefit.

HEALTH & SAFETY

Health and safety is LafargeHolcim’s overarching value. Therefore, it is at the heart of everything that both Aggregate Industries and Lafarge Cement do.

Continual improvement in health and safety practices and processes helps us strive towards achieving our goal of ‘zero harm’ and ensuring a safe and healthy workplace.

CARING ABOUT HEALTH

We attach as much importance to health as we do to safety. This is a focus on controlling workplace health risks, ensuring fitness to perform, work with health and wellbeing of our employees and contractors.

As well as having forty-five mental health first aiders throughout the business, we have an Employee Assistance Programme dedicated to providing resources to help employees overcome the many challenges.

STAKEHOLDER & COMMUNITY ENGAGEMENT

Aggregate Industries recognises the value of engaging with the communities in which we operate. By 2020 our extraction sites and cement plants will have formal Stakeholder Engagement plans (SEP). An SEP is developed in collaboration with local stakeholders which includes representatives from local government, associations, schools, and local NGOs. These stakeholder advisory panels are a Community Advisory Panel (CAP) where community project ideas can be discussed as well as resolving any complaints about traffic, noise or blasting or any other issues that have impacted the community.

NURTURING TALENT

Our focus remains on developing people and their capabilities, including identifying our talent pool and succession planning.

We aim to enhance the skills of our people, offering them growth opportunities and improving performance.

DIVERSITY & INCLUSION

Aggregate Industries values diversity and promotes a workplace that is inclusive, fair and which honours respect for all employees.

We promote equal opportunities in recruitment, employment, promotion, development, compensation and retention.

We treat employees at all times with dignity and respect – this includes direct and contracted employees.

BUSINESS ETHICS & SUPPLY CHAIN

We have introduced the LafargeHolcim Code of Business Conduct that is provided to all employees. We have risk profiled all job functions within the company, depending on the risk associated with a role either face to face training or e-learning is provided annually.

All our suppliers were sent a copy of our Supplier Code of Conduct and our terms and conditions have been updated to reflect these requirements.

Our ambition is zero harm to people

TARGETS TO 2020

- Lost Time Injury Frequency Rate (LTIFR) 1.57 or less
- Total Injury Frequency Rate (TIFR) 2.93 or less
- 20% gender diversity
- 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

We actively contribute to the social and economic development of the communities in which we operate through community engagement and employee volunteering. We are involved in community liaison meetings, we hold open days for the general public, we visit schools and we provide resources, time and materials for community benefit.
HEALTH & SAFETY

During 2016 LafargeHolcim launched a three year Health and Safety Improvement Plan (HSIP). The HSIP focuses on five key aspects:
- Leadership and accountability
- Health and Safety Management System
- People capability
- Effective execution
- Transport and Road Safety

The Executive Committee of Aggregate Industries developed an Improvement plan using this process to reduce the key risks in our business and improve safety performance across operations.

CARING ABOUT HEALTH

A healthy workforce means fewer absences and incidents and means improved staff morale, employee engagement and overall business performance. All our employees have regular health checks and we’re focussing more on mental health, providing awareness courses and training for people to become mental health first aiders.

BUSINESS ETHICS & SUPPLY CHAIN

We were the first company to be certified to BES 6001 (Responsible Sourcing of Construction Products) and we have certified new sites and businesses as they joined the supply chain. Since 2008, we have certified new sites and businesses as they joined the supply chain.

STAKEHOLDER & COMMUNITY ENGAGEMENT

We are involved in community liaison meetings, we hold open days for the general public, we visit schools and we provide materials, resources and voluntary labour to benefit the communities in which we operate.

DIVERSITY & INCLUSION

We will champion diversity and want to promote equality and diversity, we want to achieve a minimum 12% gender diversity at all management grades around our business by 2020. To achieve this, now and over the next few years we are investing heavily in our diversity development and inclusion programmes in order to ensure we have a more balanced workforce and a particular focus on attracting more women.

OCCUPATIONAL HEALTH MEDICAL SCREENING

All employees receive mandatory health checks when they join the company. This has increased every two years for higher risk colleagues, including site and nightshift workers, and every three years for all other employees. In 2016 three colleagues were diagnosed with prostate cancer, following their annual health check. We encourage our people to reach their full potential through ongoing learning and development at every grade around our business.

MENTAL HEALTH

We acknowledge that mental health is just as important as physical health. We run workshops and mental health first aid courses in partnership with the charity Mind. In 2016, 500 employees attended awareness workshops and we now have 45 trained mental health first aiders in the business. These individuals can now provide help on a first aid basis and offer guidance to their colleagues about where to go for support. Just like our traditional safety first, we think mental health first is to our first Pink Paver).

FUND RAISING FOR CANCER RESEARCH

Increasing numbers of offices and sites take part in the Macmillan “World Biggish Coffee Morning” while individuals initiative events such as sky dives and pink hair dying. Louise Clark from the Contracting Accounts Office is training to run the Brighton Marathon in aid of breast cancer. (shown below next to our Pink Paver).
BUSINESS ETHICS & SUPPLY CHAIN

We care about the environment and communities around our sites and we expect that our suppliers’ products and services do the same. We collaborate with our suppliers to share best practice and develop their policies and procedures so they meet our requirements. In late 2016 all suppliers were issued with our very first supplier code of conduct which is based on the standards enshrined in the United Nations Global Compact.

20% OF OUR ANNUAL TURNOVER IS SPENT WITH OUR SUPPLY CHAIN

OUR SUPPLY CHAIN PROFILE:

• Based within 20 miles of an AI site
• Have less than 50 full time employees (FTE’s)
• Predominantly male
• Aged: 31-40
• 97% of high risk suppliers were assessed through Avetta
• 122 key suppliers attended Supply Chain Sustainability School events

CONCRETE RUGBY

2016 marked the launch of our new programme Concrete Rugby in partnership with Leicester Tigers RFC. The programme is aimed at introducing children to the challenge, discipline and fun of rugby, as well as teaching them valuable life skills.

WHAT WE DID

We’re proud to have a long history with Leicester Tigers, and Concrete Rugby is a great way to engage with the community, teaching people and helping to make a difference. From social media awareness and healthy eating to road and quarry safety, the programme covers a wide range of life coaching skills. Most importantly, it is the joy of discovering a new sport and competing with friends.

RESULTS

The Concrete Rugby programme has taken place in 13 schools this year alone, with over 1,000 children benefiting. Three schools took part in the Concrete Rugby Festival at Bardon Hill Sports Club. Aggregate Industries staff have had the opportunity to take part in the sessions, bringing the experience to the wider range of the coaching skills. Most importantly, it is the joy of discovering a new sport and competing with friends.
We joined the Aggregate Industries Higher Apprenticeship Scheme as we both practical learners and felt that gaining hands-on experience in a company that has operations in over 70 countries means that the opportunities for progression are endless.

Our apprenticeship has proved to be challenging but fulfilling, the reason for this is that we get to experience a little bit of everything and this has allowed us to have a better understanding of what career path we want to follow.

We are now training to be Quantity Surveyors and are both heavily involved in measuring and managing our own zones. We have also both had the opportunity to embark on placements in different areas of the business including; Asphalt, Technical, Operations and Safety.

The opportunities for progression are endless.

I joined Aggregate Industries in 1983 as a temporary operative working at a concrete block manufacturing facility in Wakefield. I was transferred to the scanning and became full-time. I learnt all aspects of drilling and blasting and shortly controlled all blasting activities. Aggregate Industries has provided me with countless opportunities to develop and has supported me since joining the business to become Operations Manager of the super quarry, for which produces in excess of 5 million tonnes per annum.

My main responsibilities as Operations Manager are to ensure the safety of everyone on site, that we operate to the highest of standards in all departments, we deliver to customer expectations, show for recognition whilst safe-guarding for the future generations and obviously delivering maximum returns.

I have thoroughly enjoyed the 28 years I have had at Aggregate Industries and the diversity the business has to offer makes every day a challenging but exciting one.

Aggregate Industries has provided me with a job for life and has supported me from the start, with training ranging from soft skills to gaining qualifications, and this support has been invaluable.

Operations Manager

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Plymouth city centre vehicle safety demonstration

Christmas lunch for the Duntilland community

The Queen’s jubilee celebration, lighting the beacon on top of Bardon Hill

Cauldon school calendars

Uffculme school project before...

...and after

Defibrillator donation to Cauldon’s community
**2013 – 2016 PERFORMANCE DATA**

### ENERGY & CARBON

<table>
<thead>
<tr>
<th>Year</th>
<th>Gas usage (MWh)</th>
<th>Electricity usage (MWh)</th>
<th>Liquid fuel – all grades (MWh)</th>
<th>Solid fuels (MWh)</th>
<th>Waste derived fuels (MWh)</th>
<th>Liquid fuel – process (MWh)</th>
<th>Total waste produced (MWh)</th>
</tr>
</thead>
<tbody>
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<td>70,586</td>
<td>380,665</td>
<td>1,028</td>
<td>18,572</td>
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<td>17,562</td>
<td>15,162</td>
<td>119,052</td>
</tr>
<tr>
<td>2015</td>
<td>57,936</td>
<td>65,611</td>
<td>346,192</td>
<td>1,081</td>
<td>18,661</td>
<td>14,372</td>
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<tr>
<td>2016</td>
<td>57,600</td>
<td>63,178</td>
<td>337,558</td>
<td>989</td>
<td>19,777</td>
<td>15,012</td>
<td>116,460</td>
</tr>
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</table>

*Based on maximum licensed discharge

### WASTE

<table>
<thead>
<tr>
<th>Year</th>
<th>Total waste to landfill – tonnes</th>
<th>Total waste recovered – tonnes</th>
<th>Total waste recycled – tonnes</th>
<th>Processes treated kgCO2e/tonne</th>
</tr>
</thead>
<tbody>
<tr>
<td>2013</td>
<td>110,342,228</td>
<td>110,342,228</td>
<td>110,342,228</td>
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</tr>
<tr>
<td>2014</td>
<td>110,342,228</td>
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</tr>
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<td>110,342,228</td>
<td>110,342,228</td>
<td>3.6</td>
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</tbody>
</table>

### RAW MATERIALS USE

<table>
<thead>
<tr>
<th>Year</th>
<th>Aggregates – million tonnes</th>
<th>Raw materials – million tonnes</th>
<th>Pulverised Fly Ash (PFA) – tonnes</th>
<th>Furnace Slag (GGBS) – tonnes</th>
</tr>
</thead>
<tbody>
<tr>
<td>2013</td>
<td>28.4</td>
<td>30.8</td>
<td>30.6</td>
<td>29.5</td>
</tr>
<tr>
<td>2014</td>
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<td>2016</td>
<td>36.6</td>
<td>39.6</td>
<td>39.5</td>
<td>38.5</td>
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</tbody>
</table>

### RAW MATERIALS USE

<table>
<thead>
<tr>
<th>Year</th>
<th>Aggregates – million tonnes</th>
<th>Raw materials – million tonnes</th>
<th>Pulverised Fly Ash (PFA) – tonnes</th>
<th>Furnace Slag (GGBS) – tonnes</th>
</tr>
</thead>
<tbody>
<tr>
<td>2013</td>
<td>28.4</td>
<td>30.8</td>
<td>30.6</td>
<td>29.5</td>
</tr>
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<td>2014</td>
<td>30.4</td>
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</tr>
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<td>2015</td>
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<td>36.5</td>
<td>35.5</td>
</tr>
<tr>
<td>2016</td>
<td>36.6</td>
<td>39.6</td>
<td>39.5</td>
<td>38.5</td>
</tr>
</tbody>
</table>

### PRODUCTION FIGURES

<table>
<thead>
<tr>
<th>Year</th>
<th>Aggregates – million tonnes</th>
<th>Raw materials – million tonnes</th>
<th>Pulverised Fly Ash (PFA) – tonnes</th>
<th>Furnace Slag (GGBS) – tonnes</th>
</tr>
</thead>
<tbody>
<tr>
<td>2013</td>
<td>28.4</td>
<td>30.8</td>
<td>30.6</td>
<td>29.5</td>
</tr>
<tr>
<td>2014</td>
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<td>2015</td>
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<tr>
<td>2016</td>
<td>36.6</td>
<td>39.6</td>
<td>39.5</td>
<td>38.5</td>
</tr>
</tbody>
</table>

### PEOPLE & COMMUNITIES

<table>
<thead>
<tr>
<th>Year</th>
<th>Components – million tonnes</th>
<th>Cost of materials donated (£)</th>
<th>Total sales of recycled material – million tonnes</th>
<th>Secondary aggregates – million tonnes</th>
<th>Total sales of recycled material – million tonnes</th>
</tr>
</thead>
<tbody>
<tr>
<td>2013</td>
<td>28,4</td>
<td>30.6</td>
<td>30.6</td>
<td>29.6</td>
<td>32.4</td>
</tr>
<tr>
<td>2014</td>
<td>30.4</td>
<td>33.6</td>
<td>33.5</td>
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<tr>
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<td>36.6</td>
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<td>38.8</td>
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<td>38.5</td>
<td>42.0</td>
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</table>

### HEALTH & SAFETY

<table>
<thead>
<tr>
<th>Year</th>
<th>Lost Time Injuries (Employees (LTIFR))</th>
<th>Lost Time Injury Frequency Rate (Third Party workers)</th>
<th>Total Injury Frequency Rate</th>
<th>Total deaths – of employees (FTE)</th>
<th>Total Injured (employees)</th>
<th>Total lost working days – per FTE</th>
</tr>
</thead>
<tbody>
<tr>
<td>2013</td>
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<td>2.1</td>
<td>11.35</td>
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<tr>
<td>2014</td>
<td>8</td>
<td>2.1</td>
<td>11.35</td>
<td>0</td>
<td>43286</td>
<td>47</td>
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<tr>
<td>2015</td>
<td>9</td>
<td>2.4</td>
<td>11.35</td>
<td>0</td>
<td>43286</td>
<td>47</td>
</tr>
<tr>
<td>2016</td>
<td>7</td>
<td>2.6</td>
<td>11.35</td>
<td>0</td>
<td>43286</td>
<td>47</td>
</tr>
</tbody>
</table>

### WATER

<table>
<thead>
<tr>
<th>Year</th>
<th>Total water consumption – million m3</th>
<th>Total water abstraction – million m3</th>
<th>Total water discharge – sewer m3*</th>
<th>Quarry dewatering m3</th>
</tr>
</thead>
<tbody>
<tr>
<td>2013</td>
<td>808,390</td>
<td>808,390</td>
<td>258,611</td>
<td>159,659</td>
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<td>2014</td>
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<td>725,178</td>
<td>230,506</td>
<td>156,022</td>
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<tr>
<td>2015</td>
<td>761,202</td>
<td>761,202</td>
<td>230,506</td>
<td>158,653</td>
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<td>2016</td>
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<td>110,342,228</td>
<td>110,342,228</td>
<td>110,342,228</td>
</tr>
</tbody>
</table>

### EMPLOYEES, RECRUITMENT & TRAINING

<table>
<thead>
<tr>
<th>Year</th>
<th>Total hours of training per FTE</th>
<th>Value of materials donated (£)</th>
<th>Total hours of training</th>
<th>Apprentices recruited</th>
<th>Total employees</th>
<th>Graduates recruited</th>
<th>Senior management</th>
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</thead>
<tbody>
<tr>
<td>2013</td>
<td>48.6</td>
<td>76,436</td>
<td>86,436</td>
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</tr>
<tr>
<td>2014</td>
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<td>2015</td>
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<td>82,447</td>
<td>31</td>
<td>1,046</td>
<td>77,447</td>
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</tbody>
</table>

### RAW MATERIALS USE

<table>
<thead>
<tr>
<th>Year</th>
<th>Process emissions – tonnes</th>
<th>Raw materials – million tonnes</th>
<th>Cost of materials donated (£)</th>
<th>Total sales of recycled material – million tonnes</th>
</tr>
</thead>
<tbody>
<tr>
<td>2013</td>
<td>8.68</td>
<td>3.57</td>
<td>3.57</td>
<td>3.57</td>
</tr>
<tr>
<td>2014</td>
<td>9.38</td>
<td>4.07</td>
<td>4.07</td>
<td>4.07</td>
</tr>
<tr>
<td>2015</td>
<td>9.20</td>
<td>4.52</td>
<td>4.52</td>
<td>4.52</td>
</tr>
<tr>
<td>2016</td>
<td>8.68</td>
<td>3.57</td>
<td>3.57</td>
<td>3.57</td>
</tr>
</tbody>
</table>

### PRODUCTION FIGURES

<table>
<thead>
<tr>
<th>Year</th>
<th>Components – million tonnes</th>
<th>Cost of materials donated (£)</th>
<th>Total sales of recycled material – million tonnes</th>
</tr>
</thead>
<tbody>
<tr>
<td>2013</td>
<td>28.4</td>
<td>30.6</td>
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<td>2015</td>
<td>33.6</td>
<td>36.6</td>
<td>36.5</td>
</tr>
<tr>
<td>2016</td>
<td>36.6</td>
<td>39.6</td>
<td>39.5</td>
</tr>
</tbody>
</table>
Responsible Sourcing has become an increasingly significant part of the standards landscape in the construction industry. As a result, a number of construction product manufacturers have achieved certification to the BES 6001 standard for responsible sourcing. BES 6001 requires construction product manufacturers to demonstrate levels of achievement against a series of specific requirements. Within these requirements, some clauses contain compulsory requirements, with many also offering additional credits for achieving additional progress beyond the compulsory level. Depending upon the score achieved by the organisation, it is possible to gain a Pass, Good, Very Good or Excellent rating. Higher rating levels contain compulsory requirements, with many also offering additional credits for achieving additional progress beyond the compulsory level.

Responsible Sourcing has not been involved in the preparation of the report in any circumstances. Responsible Solutions has not been involved in the Responsible Sourcing of Construction Products.

NATURE AND SCOPE OF VERIFICATION
Responsible Solutions was commissioned by Aggregate Industries to verify a number of Aggregate Industries’ operations based on a representative sample set. Based on our work we conclude that:

- The information presented in the sustainability report is materially accurate;
- A reasonable level of assurance is given to the greenhouse gas calculations meaning that the GHG assertion is:
  - Materially correct and a fair representation of the GHG data and information; and
  - Based on the information communicated to stakeholders in accordance with the requirements of the EU ETS.
- There was a process by which primary information was supported by appropriate documentation and used for reporting purposes; primarily for clauses 3.4.1, 3.4.4 and 3.4.5.
- Constituent materials were able to demonstrate environmental stewardship at source, primarily for clause 3.4.3 with a significant percentage of the construction materials having certification to ISO 14001; statements are materially accurate and supported by a range of documents from within the management systems and from external suppliers, company publications and other sources; primarily for clauses 3.4.3 and 3.4.5.

The verification opinion relates to BES 6001 clauses as described above. This verification opinion relates to Aggregate Industries’ operations based on a representative sample set. Based on our work we conclude that:

- The verification opinion relates to BES 6001 clauses as described above. This verification opinion relates to Aggregate Industries’ operations based on a representative sample set. Based on our work we conclude that:

VERIFICATION STATEMENT

The verification process focused on the metrics and evidence.

a) Materially accurate;
   - There was a process by which primary information was supported by appropriate documentation and used for reporting purposes; primarily for clauses 3.4.1, 3.4.4 and 3.4.5.
   - Constituent materials were able to demonstrate environmental stewardship at source, primarily for clause 3.4.3 with a significant percentage of the construction materials having certification to ISO 14001; statements are materially accurate and supported by a range of documents from within the management systems and from external suppliers, company publications and other sources; primarily for clauses 3.4.3 and 3.4.5.

b) Supported by appropriate documentation & evidence.

The verification process focused on the metrics and evidence.

- Materially accurate and a fair representation of the GHG data and information; and
- Based on the information communicated to stakeholders; however, part of the process examined existing policy as per the requirements of the BES 6001 framework standard.

Statement on Responsible Solutions' eligibility to verify a number of Aggregate Industries’ operations based on a representative sample set. Based on our work we conclude that:

- The information presented in the sustainability report is materially accurate;
- A reasonable level of assurance is given to the greenhouse gas calculations meaning that the GHG assertion is:
  - Materially correct and a fair representation of the GHG data and information; and
  - Based on the information communicated to stakeholders in accordance with the requirements of the EU ETS.
- There was a process by which primary information was supported by appropriate documentation and used for reporting purposes; primarily for clauses 3.4.1, 3.4.4 and 3.4.5.
- Constituent materials were able to demonstrate environmental stewardship at source, primarily for clause 3.4.3 with a significant percentage of the construction materials having certification to ISO 14001; statements are materially accurate and supported by a range of documents from within the management systems and from external suppliers, company publications and other sources; primarily for clauses 3.4.3 and 3.4.5.

VERIFICATION STANDARD

There is no specific verification standard for BES 6001, although greenhouse gas emissions are required to be calculated to the principles of ISO 14064-1. Many organisations often fall into a number of carbon measurement schemes such as EU ETS, CRCEES and CCA; therefore, direct emissions data are required to be calculated to the principles of ISO 14064-1. Many organisations often fall into a number of carbon measurement schemes such as EU ETS, CRCEES and CCA; therefore, direct emissions data are often already verified as part of legal compliance to a scheme. In such instances the existing verification can be accepted and other indirect energy streams verified to meet the principles of ISO 14064-1.

The verification process focused on the metrics and evidence.

- Materially accurate and a fair representation of the GHG data and information; and
- Based on the information communicated to stakeholders; however, part of the process examined existing policy as per the requirements of the BES 6001 framework standard.

Statement on Responsible Solutions' eligibility to verify a number of Aggregate Industries’ operations based on a representative sample set. Based on our work we conclude that:

- The information presented in the sustainability report is materially accurate;
- A reasonable level of assurance is given to the greenhouse gas calculations meaning that the GHG assertion is:
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- Constituent materials were able to demonstrate environmental stewardship at source, primarily for clause 3.4.3 with a significant percentage of the construction materials having certification to ISO 14001; statements are materially accurate and supported by a range of documents from within the management systems and from external suppliers, company publications and other sources; primarily for clauses 3.4.3 and 3.4.5.

VERIFICATION OPINION

Based on the information and data contained within the sustainability report we are satisfied that it provides a fair and balanced representation of Aggregate Industries’ sustainability activities in 2015 with respect to the requirements for BES 6001 clauses as described above. This verification opinion relates to Aggregate Industries’ operations based on a representative sample set. Based on our work we conclude that:

- The information presented in the sustainability report is materially accurate;
- A reasonable level of assurance is given to the greenhouse gas calculations meaning that the GHG assertion is:
  - Materially correct and a fair representation of the GHG data and information; and
  - Based on the information communicated to stakeholders in accordance with the requirements of the EU ETS.
- There was a process by which primary information was supported by appropriate documentation and used for reporting purposes; primarily for clauses 3.4.1, 3.4.4 and 3.4.5.
- Constituent materials were able to demonstrate environmental stewardship at source, primarily for clause 3.4.3 with a significant percentage of the construction materials having certification to ISO 14001; statements are materially accurate and supported by a range of documents from within the management systems and from external suppliers, company publications and other sources; primarily for clauses 3.4.3 and 3.4.5.

VERIFICATION STATEMENT

The verification process focused on the metrics and evidence.

- Materially accurate and a fair representation of the GHG data and information; and
- Based on the information communicated to stakeholders; however, part of the process examined existing policy as per the requirements of the BES 6001 framework standard.

Statement on Responsible Solutions' eligibility to verify a number of Aggregate Industries’ operations based on a representative sample set. Based on our work we conclude that: