Sustainability Roadmap Review 2016 -2020

Sir Robert McALPINE

Contents

Working together to build Britain's future heritage, leaving a positive social, economic and environmental legacy within the communities in which we operate.

As a family-owned company, we pride ourselves on our responsible and inclusive approach to business. As a main contractor our responsibilities extend far beyond our sites - we aim to make a positive contribution to society.

Executive summary

PAUL HAMER
Chief Executive

Sustainability is a central pillar of our business strategy, and like every other area of our operations we aim for excellence. Through innovating and collaborating we drive improved performance and deliver the best possible outcomes for our clients, our projects, our people and partners, and the wider community.

We appreciate the lasting legacy that construction has on environments and communities and are committed to constructing buildings and communities that will stand the test of time, while being sympathetic to the buildings around them.

Over the last four years we have seen significant progress towards embedding sustainability throughout our business. Our improved performance against our sustainability Roadmap is testament to the commitment of our project teams to going beyond the brief in order to leave a lasting legacy.

Working as one with our clients and supply chain and harnessing the latest available technologies to help improve our performance, we are proud of the progress we continue to make in sustainability and look forward to building on our successes over the years ahead.

60%
Reduction in carbon emissions (against 2008 baseline)

£2.5bn
Local reinvestment over 4 years

564
School visits

1924
Community initiatives

Sustainability is a central pillar to our business strategy

In 2015 we set out on an ambitious journey to transform our sustainability performance by 2019, the 150th anniversary of our founding as a business.

To drive performance, we set ourselves a series of demanding targets based on four themes. These targets span four years, with all our projects being held accountable for delivering against them.

These themes form our Roadmap Strategy:

Community
Committed to promoting opportunities, benefits and inward investment to local communities.

Resource management
Committed to responsibly source and efficiently manage our consumption of natural resources.

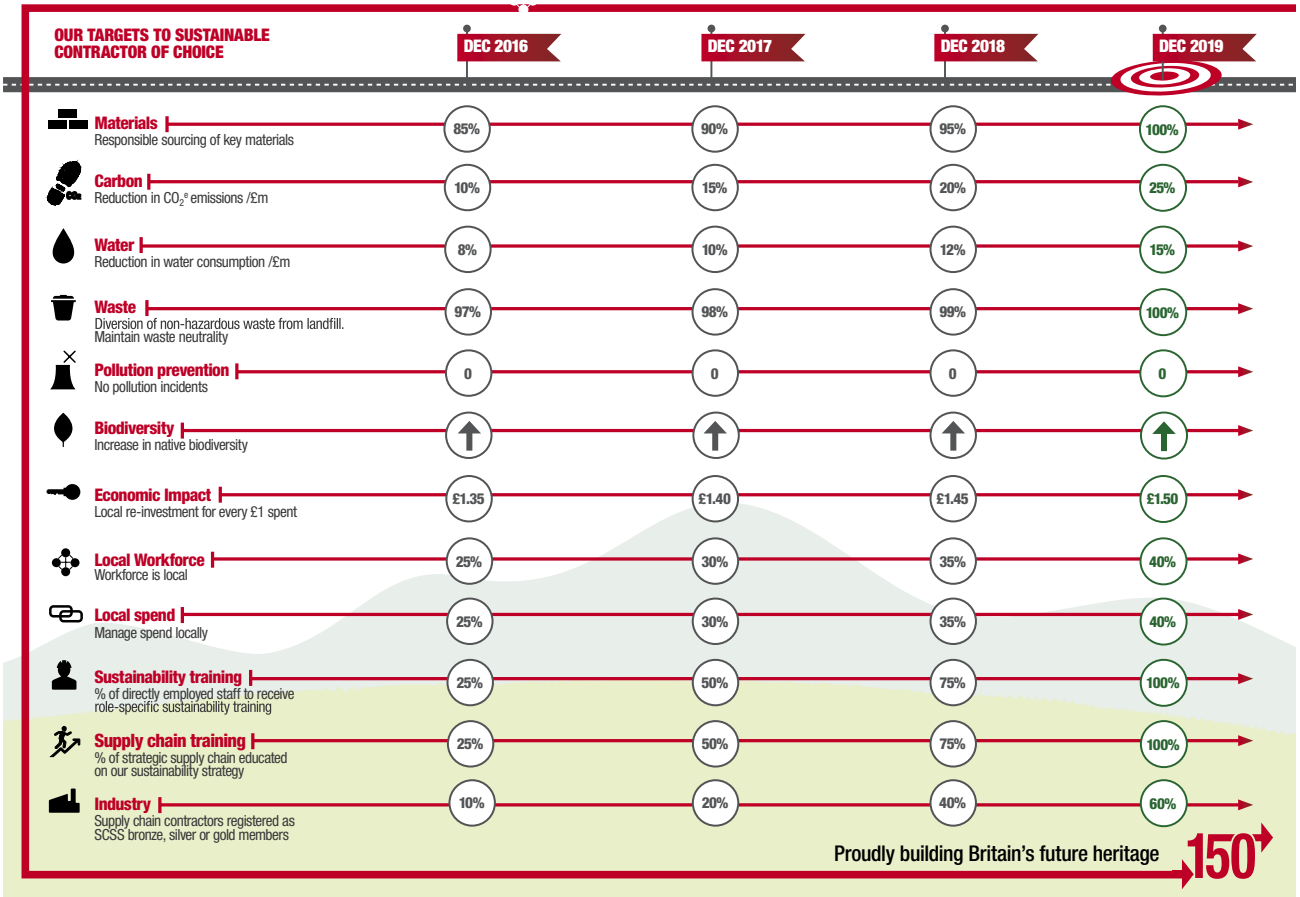
Working together
Committed to strengthening relationships with our stakeholders and employees.

Natural environment
Committed to protecting and enhancing the natural environment.

Each of these themes had incrementally improving targets aimed at driving a continuing improvement in sustainable performance across the business.

The following pages summarise our performance in embedding our Roadmap requirements into the McAlpine Way.

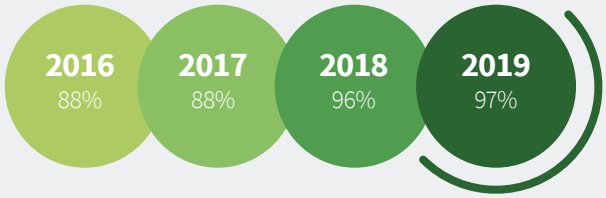
What we set out to do



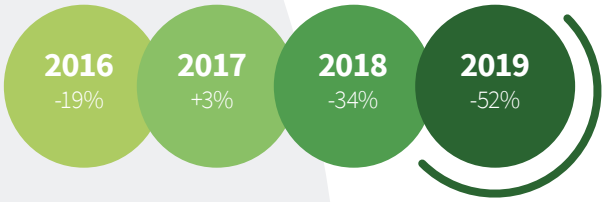
Summary roadmap performance

Resource management

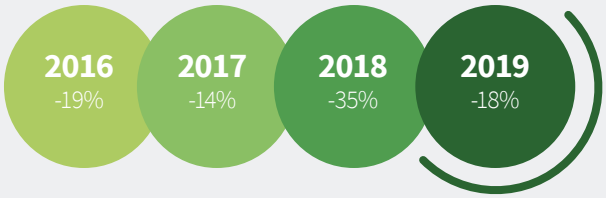
% Of key building materials responsibly sourced



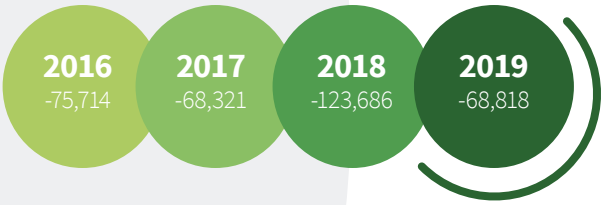
% Reduction in scope 1 & 2 carbon emissions (against 2008 baseline)



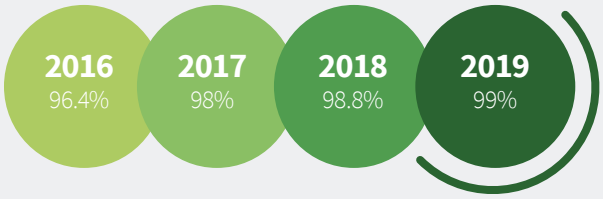
% Reduction in water consumption (against 2012 baseline)



Waste neutrality (tonnes)



% Diversion of construction waste from landfill



Natural environment

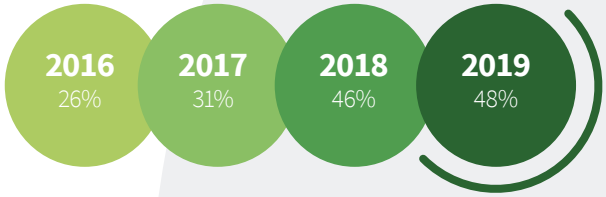
No. Of major pollution incidents

Change in biodiversity

* Our performance was continually reviewed thought the strategy, we learned and adapted our direction where necessary. As a result, some targets were suspended in the interest of improving overall performance.

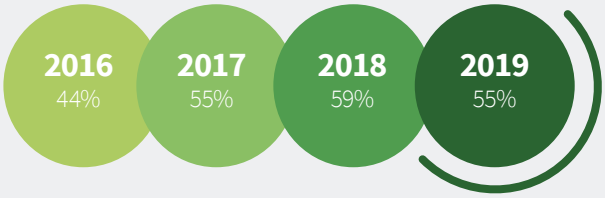
Community

% of supply chain spend with local companies



Economic impact (LM3)

% Local workforce



Working together

Sustainability training

Supply chain training

% of supply chain registered with SCSS

* Our performance was continually reviewed thought the strategy, we learned and adapted our direction where necessary. As a result, some targets were suspended in the interest of improving overall performance.

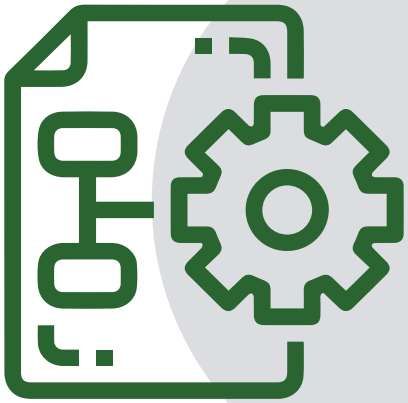
Image: The Sill, Northumberland

“I am proud of what our teams have delivered over the four years of this strategy. We’ve had challenges along the way, however what’s pleased me is the willingness and drive of our project teams and supply chain partners to rise to them. Together we’ve delivered meaningful improvements across our business operations and placed sustainability at the forefront of our project delivery. This is providing a resilient business, ready to face the challenges ahead.”

SIMON RICHARDS
Head of Sustainability.

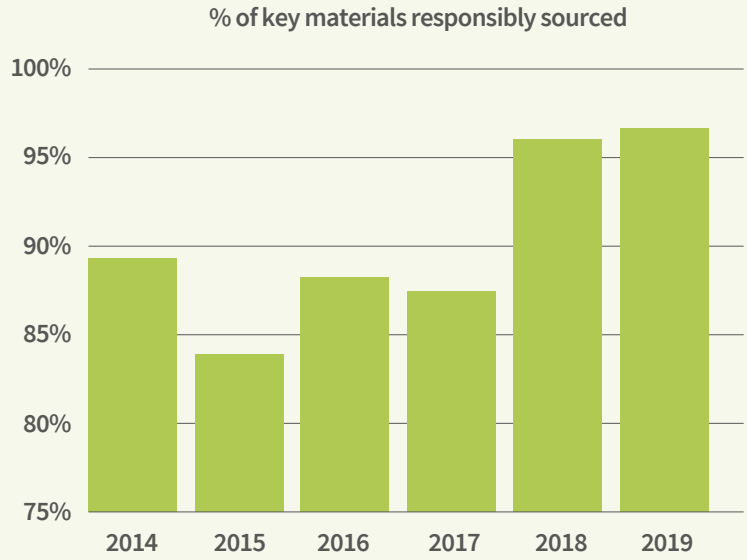
01

Resource management



Materials

Responsible sourcing of key materials



To focus our efforts, maximising our impact we assigned 10 key building materials to target throughout the strategy. They were:

- **Aggregate**
- **Brick**
- **Block**
- **Concrete**
- **Dimensional stone**
- **Glass**
- **Insulation**
- **Metal**
- **Plasterboard**
- **Timber**

Collectively these represent the majority of the materials we use on our projects.

We committed to sourcing these materials from recognised responsible sourcing schemes such as ISO14001, BES6001 and chain of custody schemes for timber. These schemes provide us with a level of assurance that the materials we use are manufactured and produced in a sustainable manner, minimising their social, economic and environmental impacts.

Overall, throughout the lifecycle of the strategy we responsibly sourced 97% of these key building materials across our operations. We've seen a steady improvement in performance since this metric was introduced with improved supply chain engagement and training yielding positive results.

Our reporting has evolved, and the quality of our data has significantly improved over this time, enabling more detailed analysis, benchmarking and identification of areas for improvement which is reflected in our results.

STORIES BEHIND OUR PERFORMANCE

Ravenswick Hall – timber procurement

To achieve our target to source 100% of our timber from FSC/PEFC sources our team carried out CPET Category B audits with our supply chain.

We audited two companies who were supplying timber products to the project. With no certification held, these companies were breaking the chain of custody, therefore non-compliant to our requirements. Following our audit the companies were able to demonstrate the full chain of custody for the timber they used and rigid processes at their own facilities. This meant that timber chain of custody could be tracked through the product manufacture and delivered to our site in full confidence that it was compliant to our requirements.

1 Finsbury Avenue – upcycled welfare

STORIES BEHIND OUR PERFORMANCE

Architecture students from the University of East London worked with our 1 Finsbury Avenue team to design and build a stylish welfare facility made of materials and fittings reclaimed from existing elements of the building prior to refurbishment.

The process began with the students cataloguing the elements and materials present in the building and identifying those that could be saved and repurposed for the new on-site welfare facility. This facility includes toilets, showers, changing rooms, canteen, first aid rooms and training and induction rooms.

- Some of the saved doors were upcycled and made into a 3.8m tall 'door wall' – a patchwork design that bolts the wall together making it easy to disassemble in sections.
- The rest of the reclaimed doors were repurposed into furniture for the welfare area and induction room.
- Reusing the doors from 1 Finsbury Avenue has saved 26.02m^3 of timber waste being produced.
- 250 perforated ceiling discs and 20 perforated ceiling hoods have been upcycled and used to build the 'cloud' elements for the welfare ceiling.
- Other elements such as lockers, urinals, hand dryers, units, lighting and desks have been re-used in place of new purchases.

The student's work was exhibited as part of the London Festival of Architecture.

"It was an incredible learning experience for the students. This was no mock task; it was learning in a real-world environment."
Jeff Tidmarsh, Framework Design Manager

Waste

99% Construction waste diverted from landfill

Delivered waste neutral construction

50% Reduction in construction waste intensity (tonnes/£m turnover) from 2007 to 2019

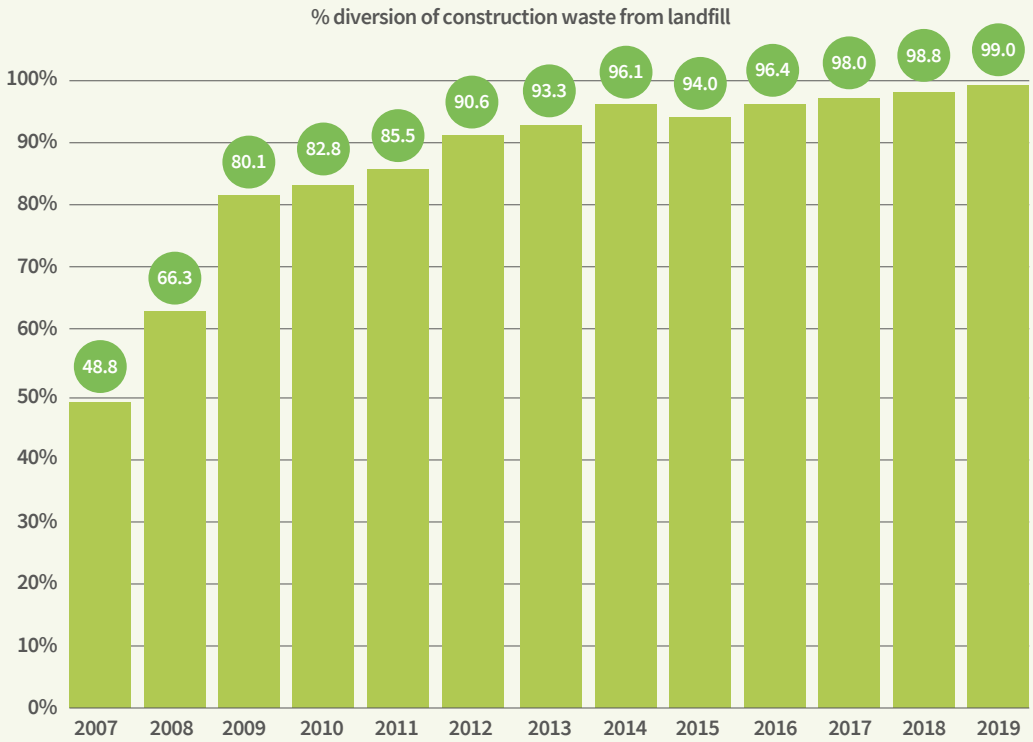


Image: Plot 6&7 Central Square, Cardiff

As you would expect, waste is a key area of focus for us. Over this strategy we have worked with our supply chain to drive resource efficiency at every phase of project delivery. As a result, we're producing less waste, with a 50% reduction in construction waste intensity (tonnes/£m turnover) experienced between 2007 and 2019.

We achieved our waste neutrality target by a significant margin, where the proportion of recycled content in the materials used in our projects was higher than the amount of construction waste generated. This shows our commitment to both utilising recycled content in the materials we use as well as reducing the total amount of waste generated.

Diverting 99% of non-hazardous construction waste from landfill in 2019 was a significant achievement. The intensification of our waste audit and selection process as well as the buy-in and commitment of our site staff and supply chain partners delivered this exceptional performance.

2019 also saw eight of our projects achieve 100% diversion from landfill, something which we will analyse, take lessons learnt and look to build on.

On-site recycling of demolition waste - Springfield University Hospital

STORIES BEHIND OUR PERFORMANCE

The team conducted a pre-demolition audit at the project to identify the opportunity to reuse, recover or recycle resultant materials. This resulted in:

- 360,000 bricks being handpicked, cleaned and packaged for reuse offsite.
- 260 tonnes of metal and 360 tonnes of wood separated onsite and sent offsite for recycling.
- Concrete foundations, non-reusable bricks and asphalt were stockpiled and crushed onsite.
- Circa 8,000m^3 of crushed material was reused as certified 6F2 capping in roads, piling mat and hard stands.

This resulted in 99% of demolition waste generated onsite being diverted from landfill.

Plot 6&7 Central Square

Resource efficiency was a key driver on this project. Our early involvement in the scheme enabled us to identify significant environmental benefit through a piling redesign.

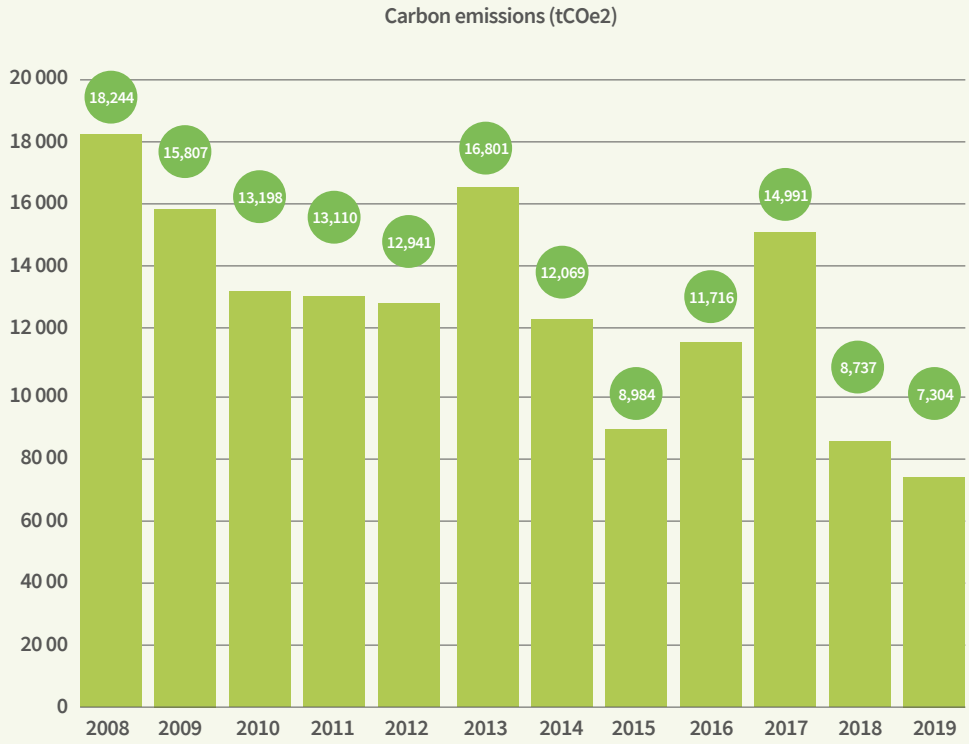
The initial piling design comprised 119 piles in the basement and 86 piles at ground level of two different diameters, with the overall volume totaling 3,434m^3. Our alternative pile design reduced the pile diameter to one which reduced the volume by 1,643m^3.

The revised design represents a 47.8% reduction in concrete used for piling, as well as significant savings from material disposal. Additionally, the redesign resulted in an 8.7% reduction in reinforcement used for piling.

The redesign saved a total of 522 tonnes of carbon, comprising of embodied carbon within material and the associated emissions for deliveries.

STORIES BEHIND OUR PERFORMANCE

Carbon



This strategy committed us to reducing our carbon emissions by 25% (against our 2008 baseline), implementing effective reporting and delivering company level changes to significantly reduce our emissions. Throughout the lifecycle of the Roadmap we have reduced our absolute emissions by 60%, compared to our baseline year in 2008.

Over the strategy lifecycle we have developed and implemented automated carbon reporting for our Scope 1&2 emissions and will be delivering further automation of our scope 3 dataset from 2020 onwards.

It is estimated that embodied carbon contained within materials accounts for around 50% of the whole life carbon emissions of a building. Therefore, reducing this impact through design rationalisation and material specification is key. Over the past four years our use of BIM-integrated Life Cycle Analysis software and supplier embodied impact data means we have an in-depth insight into the real emissions associated with construction.

We are committed to reducing our Carbon Footprint and implementing changes across our business to do this.

The reduction in carbon emissions realised over the Roadmap strategy is Phase 1 of our Pathway to Net Zero Carbon. 2020 sees our commitment to Net Zero being formalised with a commitment to achieving Net Zero Carbon by 2024 and an action plan to reduce our scoped emissions.

This will provide tangible results and embed the cultural change needed to address the Climate Emergency.

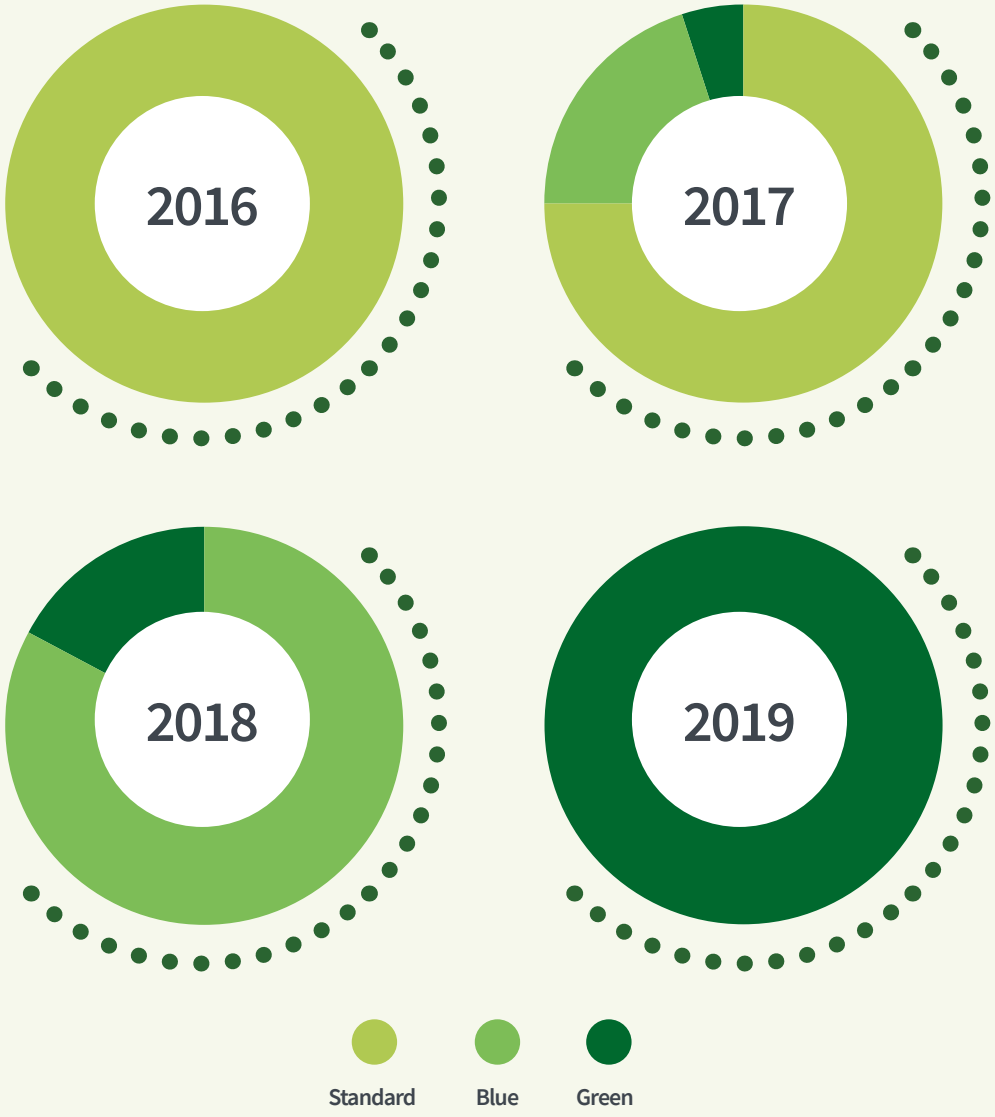
Reduction in carbon emissions

Company transition to renewable electricity tariff

We have transitioned our electricity usage from a standard tariff to a 'Blue' tariff and then to the 'Renewable for Business 100%' tariff over the last few years.

This step demonstrates our commitment to low-carbon electricity, utilising certified renewable generation sources which all have a zero emissions rating. The tariff is backed by REGOs (Renewable Energy Guarantees of Origins) which is administered by Ofgem and is used to provide transparency about supply generation.

STORIES BEHIND OUR PERFORMANCE



Voltage optimisation (Fen Court & Lillie Square)

The equipment used on construction sites is designed to work optimally at 207 volts, however in the UK grid voltages can be up to the legal limit of 253v. The higher the voltage, the harder transformers have to work, the quicker motors burn out, and the more equipment needs to be maintained. Existing site transformers 'knock' the voltage onto site down, but generally to a level still above 207v. Voltage Optimisation (VO) seeks to rectify this wastage.

On our Fen Court project, the voltage delivered to site was between 240-249v. This meant that installing VO delivered an energy saving of 9-11%.

On our Lillie Square project, VO was installed on the 88-cabin welfare set up on the project and reduced energy consumption on site by 15%.

These are believed to be amongst the first installations of VO technology on construction sites within the UK.

STORIES BEHIND OUR PERFORMANCE

21 Moorfields – hydrogenated vegetable oil

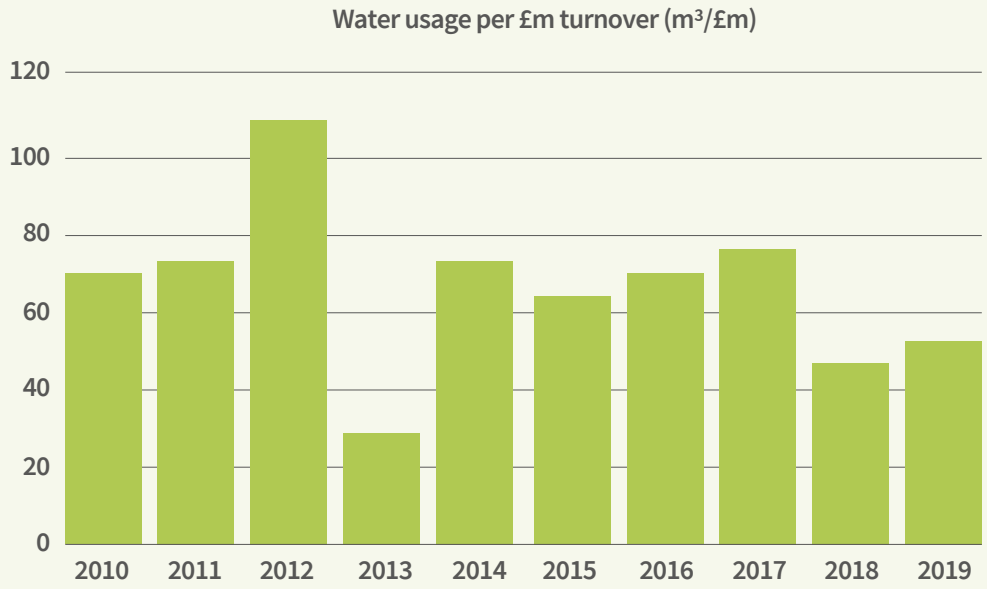
We trialled the use of hydrogenated vegetable oil to fuel generators on site whilst we transferred the mains power supply from low to high voltage.

The 'Green D+' fuel is made exclusively of waste products – compromising a mix of vegetable oils and animal/fish fats. It is a renewable fuel which comparatively saves one tonne of carbon for every 350 litres of fuel used. The trial delivered a saving of 12.5 tonnes of carbon– roughly the equivalent of three personal flights from London to Sydney.

Beyond its carbon benefit, it also achieves a 29% reduction in nitrogen oxide (NOx) emissions and a 77% reduction in airborne particulates compared to red diesel, and therefore reduces air pollution to the local community. The high cetane value of the fuel also reduces combustion noise which is so often associated with the running of a generator on site.

STORIES BEHIND OUR PERFORMANCE

Water



This strategy committed us to reducing our water consumption by 15% (against our 2012 baseline).

As with carbon, throughout this time we have implemented company level changes which have significantly reduced our consumption, this coupled with more effective reporting has meant that over the lifecycle of the Roadmap we now better understand our water consumption, where it is used and how we can reduce it.

In 2019 we delivered an 18% reduction in water consumption (against our 2012 baseline) across our operations which represented a 34% improvement compared to when we started collecting company wide water usage dataset.

Our data has shown us that commissioning accounts for more than a quarter of the water used on our projects. This continues to be an area of focus for improvement and we've looked at a number of strategies to help reduce usage.

18% **Reduction in water use**

In line with our commitment to reduce water consumption we have upgraded our site accommodation. Our sites now have waterless urinals, low-flow push button taps, dual flush toilets and greywater harvesting. This results in a substantial reduction in the water consumption associated with our welfare.

Fen Court – MDP commissioning

A Minimal Discharge flushing Process (MDP) was adopted in lieu of a traditional flush, as part of the commissioning strategy. This approach significantly reduced the amount of water the project used whilst simultaneously delivering programme benefits

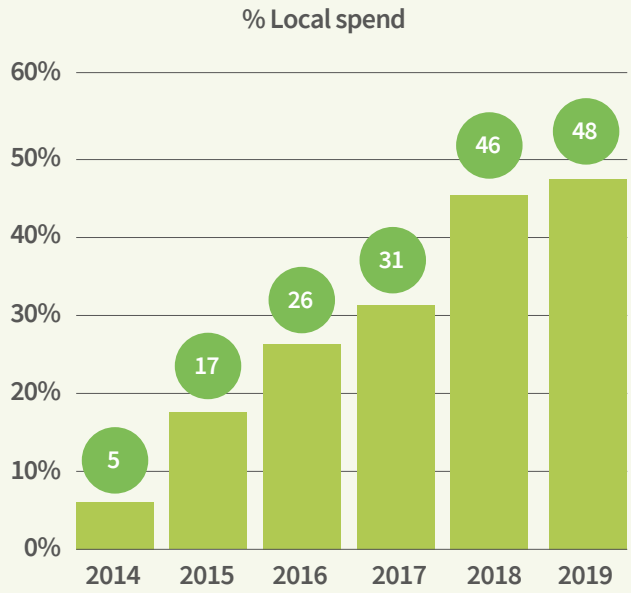
Through collaborative working with our mechanical subcontractor and their commissioning specialist, the MDP approach saved ~1.5 million litres of water, equating to ~20% of the project's total water usage.

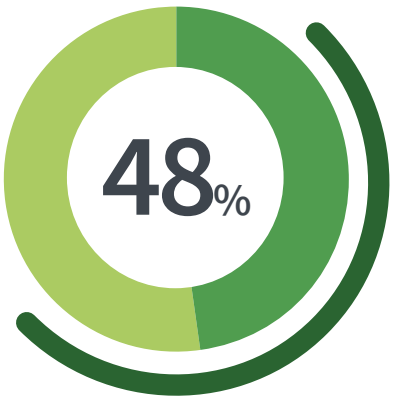
STORIES BEHIND OUR PERFORMANCE

02

Community

Local spend





Local spend

Our construction projects enhance local communities through the build assets we deliver. We have a duty to ensure that a lasting positive social legacy is delivered alongside this. The Roadmap strategy introduced the targeted delivery of community benefits into our project delivery.

On average 70-80% of our annual turnover is spent on the procurement of goods, works and services. We therefore can play a key role in supporting local businesses and employment through the decisions we make in procurement.

Centrally we have implemented changes throughout the lifecycle of the strategy. For example, in 2017, closer alignment between our procurement and sustainability departments ensured that we have embedded sustainability requirements into the procurement of our supply chain.

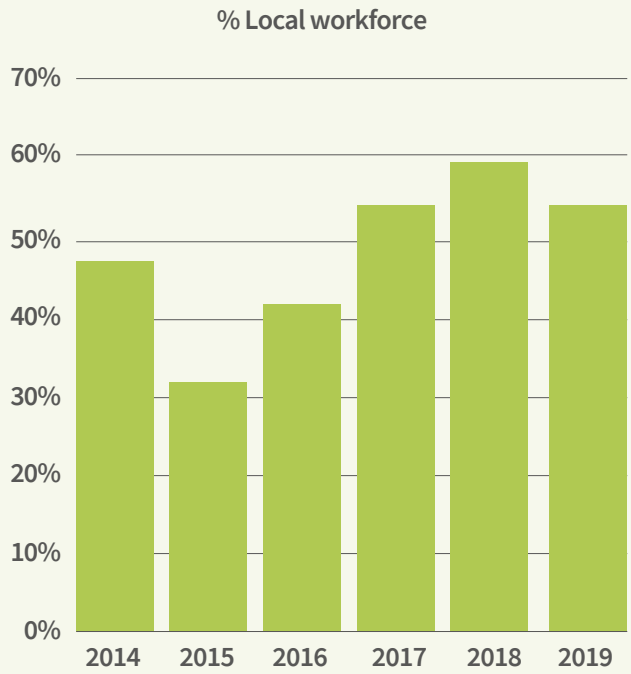
Our commercial teams understand the requirement and the reasoning behind local procurement, as a result they actively engage with the local supply chains.

We've continued a programme of data automation, providing us with accurate data on local spend, which we are able to analyse and query. This gives us confidence in our dataset and the reporting of our achievements.

With an aspiration to achieve 40% local spend across our operations by 2019 it has been great to see that, since 2016 we've seen a steady increase in our local spend. We've hit our incrementally increasing targets year on year with an outturn local spend of 48% for 2019.

Our challenge is to improve this further whilst targeting wider social value deliverables in our new sustainability strategy.

Local workforce



Local workforce

In setting a target for local workforce in this strategy we ensured that our project teams would actively engage with local supply chains to identify ways to maximise their involvement in our projects.

Engaging with existing supply chains have been essential to the delivery of this target. Our procurement teams hold meet the buyer events and our procurement schedules are analysed to ensure they include the local supply chain.

Our community teams have put significant effort into initiatives to attract new talent into the construction industry and provide people the opportunity to find employment and embark on new careers.

Transparency of reporting this dataset, indeed all our datasets, is important to us, which is why we have implemented a biometric site entry system which is linked to our induction records. This ensures that we get accurate workforce data which automatically calculates local employment rates as well as other metrics like carbon footprinting and diversity.

Whilst this target is influenced by the geography of our projects and the local supply chain capacity, this commitment ensured that our projects have made a positive contribution to their local economic prosperity.

With a geographically dispersed operation, setting a company wide 40% target was a significant commitment. Our performance against our local workforce target has significantly improved over time, with our performance in 2018 peaking at 59%.

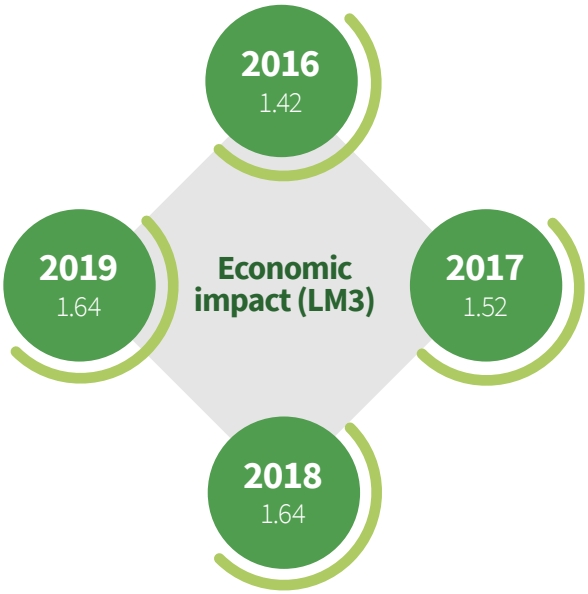
Leeds Victoria Gate

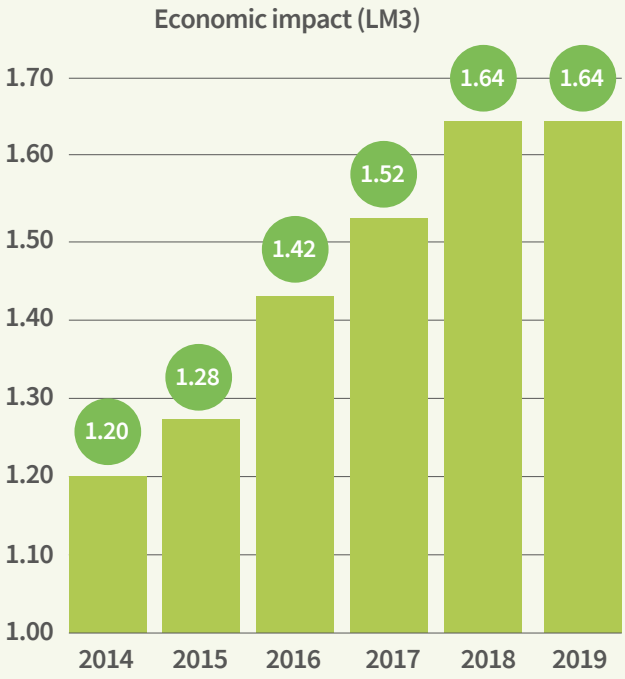
A significant number of local people were provided with employment and work experience on our Victoria Gate project, through partnering with Construction and Housing Yorkshire to recruit New Entrants. Our targeted employment and skills plans delivered the following performance:

- 380 local people employed
- 243 local new entrants employed
- 17 apprentices newly employed
- 100+ weeks of work experience provided
- 500+ local students engaged

STORIES BEHIND OUR PERFORMANCE

Economic impact





£2.5bn

Local reinvestment over 4 years

We aim to provide a lasting positive legacy through delivering projects that economically enhance local communities. The Roadmap strategy sought to quantify this through the use of a local multiplier methodology called LM3.

LM3 takes into account project value, our local spend, the local spend of our subcontractors and the local economic impact of our workforce. It has been an important tool in helping us understand, target and maximise our impact on the communities around our projects.

Through targeting and reporting our reinvestment in this strategy we are able to measure our impact. We've delivered a year-on-year improvement in performance against this metric thanks to the dedication of our staff and supply chains.

Our outturn performance over the last four years is that we have reinvested a total of £2.5 billion into our local communities.

During this strategy, the concept of Social Value has become more prevalent. This has meant that we have delivered over and above our formalised community targets in this strategy.

Social Value forms a key component of our new Sustainability Strategy.

Image: City of Glasgow College

City of Glasgow College

At the City of Glasgow College, we achieved new standards of excellence in social sustainability. Our work, which included 80% sub-contract spend in Scotland and 148 job opportunities created, was summarised in a report that was presented to the Scottish Futures Trust and discussed with the Scottish Government. Following this work, we now produce socio-economic reports on other projects to demonstrate project impact.

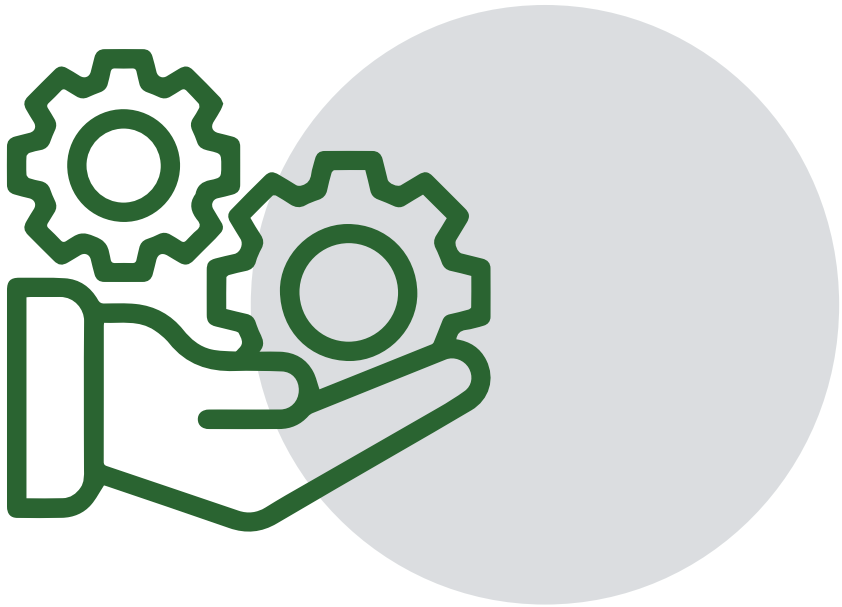
Highlights of the report, which covers the impact of the two new campuses on the built environment, the benefits the project has had for the students of the College and the socio-economic effects of the work, include:

- A huge £114,000 raised for a Supported Futures Trust fund to increase access to education.
- 148 job opportunities created, of which 78% went to local people.
- 102 days of community engagement.

STORIES BEHIND OUR PERFORMANCE

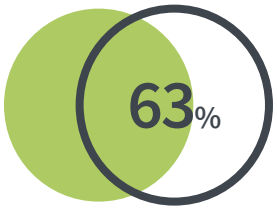
03

Working together



Sustainability training

of our employees completed our Sustainability Essentials eLearning module



of strategic supply chain educated on our sustainability strategy

Our people are central to the delivery of the exceptional performance realised over the lifecycle of this strategy.

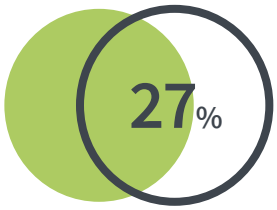
In 2017, we rolled out a Sustainability Essentials eLearning course, to train all of our employees on our sustainability strategy aims and it now forms part of our staff induction process. It has improved awareness, understanding and delivery of sustainability issues right across the business.

Our eLearning programme forms part of a wider sustainability training strategy which was developed with the UK Green Building Council. This includes Sustainability Leadership engagement workshops and role specific sustainability training for design, procurement and delivery.

To further embed sustainability into the everyday ethos of our people we have included sustainable deliverables in our revised company-wide Building Individual Performance programme. This supports and tracks the continued professional development of all employees ensuring our staff have the knowledge and experience to deliver our aspirations as a business.

Industry engagement

We actively engage with our industry peers and partners through numerous activities, memberships and associations to progress sustainable performance. Collaboration across the industry is key, sharing good practice and helping drive progress within the sector.



Strategic supply chain contractors registered as SCSS bronze, silver or gold members

With 95% of people on site sub-contracted through our supply chain, it is vital we ensure they understand our sustainability strategy and work with us to deliver on our targets. To support this we engage with our strategic supply chain partners to communicate our sustainability strategy and performance as part of wider supplier engagement events.

To engage our site teams, we carry out Workforce Engagement Workshops across all of our sites covering a wide range of topics, with over 14,000 people participating during the course of 2018.

Westminster UTC employment partner

As part of our work to encourage diversity within the industry, we're working with the Sir Simon Milton Westminster University Technical College as an employer partner.

The college's aim is to educate some of the young women and men who will become the next generation of professional engineers, technicians and innovators. We provide a learning environment where subjects such as maths and engineering are made relevant by applying them to real projects. Our involvement has also seen participation in careers fairs, hosting work experience students and running interactive workshops to promote further understanding of the construction industry.

This is providing opportunities for students to interact with and learn from a wide range of construction professionals and specialists in areas such as Sustainability and BIM.

"We are proud to support the Sir Simon Milton Westminster UTC because of the vital role it has to play in nurturing and developing the high-achieving construction professionals of tomorrow. Our involvement ensures that the UTC is supported to lead and inspire its students on their journey from education into employment, helping them put theory into practice and opening their eyes to the many exciting career paths our industry has to offer."
Edward McAlpine, Chairman and Executive Partner, Sir Robert McAlpine.

Attracting new talent into the industry with PlanBEE

An innovative training programme providing North East construction professionals of the future with a new route into the industry was named winner in the Collaboration of the Year category at the The Architects Journal AJ100 Awards 2018.

We are one of the main sponsors of the PlanBEE initiative, which brings together architectural practices, engineers and project managers for an earn-as-you-learn training programme delivered in partnership with Gateshead College.

Launched in 2016, the scheme offers a new training model by providing students with the chance to work across several companies operating in different disciplines while completing their qualification.

Awarding the scheme the prize, the judges said: "PlanBEE demonstrates collaboration on so many levels. It bridges between inside and outside the industry – filling an education gap, improving access to the profession and enthusing young people to become pan-industry collaborators themselves."

Connor Young, is one of those to have recently graduated from the course. Having already completed a Level 3 BTEC in Construction and the Built Environment, Connor applied for PlanBEE because, with limited experience in the industry and interests across a range of disciplines, he was unsure which path would suit him best.

"Being given the opportunity to work and understand several roles provided me with experience very few students have. It allowed me to develop an appreciation for how different roles work independently and the importance of communication and collaboration."

During the PlanBEE rotations Connor found he especially enjoyed the contractor side of the industry and joined us as a Trainee Design Manager at Durham University's Mathematical Sciences and Computer Sciences Building.

04

Natural environment

Image: A19 BIG Biodiversity Award Winner

Biodiversity

Our target was to increase biodiversity on all of our projects. To aid this we developed our own biodiversity calculator which assessed the impact of our projects on biodiversity. The implementation of this tool in 2017 saw us increasing biodiversity across our projects.

Big biodiversity award winner

We recognise that our ability to influence the long-term biodiversity impacts of our projects is limited due to the fact that we typically get involved in a project once the design has been agreed. However, in instances where we have had early contractor involvement, we have seen positive impacts on biodiversity.

The Roadmap strategy was continually reviewed throughout its lifecycle, in 2018 it was decided that we would no longer measure our projects against our biodiversity target, as client scope often made the target unachievable.

Instead, we focused our effort on ways that we can influence positive change and divert the resource and expertise to projects where biodiversity was a driver, maximising impact and demonstrating what's achievable.

We've trialled and implemented temporary biodiversity enhancements on some of our city centre projects. This delivers a combination of benefits, from reducing the urban heat island effect, to encouraging ecological diversity, and improving the health and wellbeing of those who experience it.

We will continue to engage with our clients, design teams and projects to maximise biodiversity, and advocate biodiversity enhancements across our portfolio of projects.

A19 – habitat creation

STORIES BEHIND OUR PERFORMANCE

We manage 120km of the A19 and have a long term landscape planning and management strategy which has created meaningful and long-lasting benefits to the local ecology. Through our annual site monitoring and consultation with Durham and Tees Valley Wildlife Trust we have enhanced the area, making adjustments to the maintenance regime and expanded the species rich grassland to 415,000m^2.

Monitoring surveys have confirmed that of the 35 characteristic indicator species in the area, 27 are now present along our stretch of the A19 route corridor. This includes a number of rare and declining species.

Quotes from Mark Dinning, Head of Conservation, DWT:

"It has been a pleasure observing the positive changes your team have brought to the habitats along the road verges of the A19. Work to date has not just directly restored this grassland on the A19 network but has also provided links between important neighbouring sites and sites on the network, significantly increasing the total connected resource of this rare habitat."

"The wealth of flora, some regionally scarce, highlights the importance of your work in the conservation of magnesian limestone grassland in northern England."

The Sill – biodiversity net gain

At The Sill National Landscape Discovery Centre one of the key aims of the project was to allow visitors to learn about the local biodiversity. The Whin Sill grassland roof was an innovative solution and was planted in a substrate inspired by the surrounding landscape. Different soil mixtures and planting techniques were tested in a number of trial plots.

STORIES BEHIND OUR PERFORMANCE

The green roof is fully accessible, allowing all visitors to reach a viewing platform with panoramic views. It is the only one of its kind in the world and will be used by students to learn more about carbon capture, geology and ecology.

The species richness of the site has been increased significantly, including garden areas planted with native species. The green roof provides 2,373m^2 of neutral and acidic grasslands and Whin Scree, with the retention of established habitats and woodland diversity. Overall this has resulted in a net gain in biodiversity.

Pollution prevention

Being a good neighbour is essential to successful project delivery. Minimising negative impacts on, as well as protecting and enhancing, the environments in which we work is a key deliverable for our sites.

As part of our ISO14001 certified Environmental Management System, we assess the potential risks of each project, putting mitigation measures in place to eliminate or reduce these risks.

We educate our employees and supply chain on management techniques to protect the environmental conditions of the site as well as the well-being of the local community. Lessons learned from our projects are communicated across the business to ensure that our performance continually improves.

Any incidents are thoroughly investigated with lessons learnt, procedure updates and training given to prevent recurrence. Lessons learned and best practice from our projects are communicated across the business to ensure that our performance continually improves.

It is important that we are reporting true progress and performance against our Roadmap and not to shy away from any short comings.

Over the four years of this Roadmap strategy we have had two pollution incidents in the business, both section 60 noise notices. However, the lessons learnt from these incidents have been communicated company wide and our business is stronger as a result.

Passive air-purifying coating (Battersea, 21 Moorfields, Manchester Office)

Following significant laboratory-based testing, we engaged with Guard Industry to trial their DtoxGuard product. The treatment breaks down airborne pollutants such as NOX by photocatalysis. It also destroys organic dirt and grime, effectively becoming a self-cleaning surface.

We trialled the product in our Manchester Office, yielding promising results, with a 40% reduction in Nitrogen Oxide after the coating had been applied. The product was also installed at out Battersea Phase 3A and 21 Moorfields projects, to help reduce NOX locally and support the work of the local authorities to tackle air pollution.

STORIES BEHIND OUR PERFORMANCE

Broadgate – Community Engagement App

The Broadgate Construction app represents a collaboration between Sir Robert McAlpine and British Land to improve the development process, improve communications, and ensure engagement and advocacy from stakeholders.

Extensive stakeholder mapping was initially carried out during pre-construction to identify the people, groups and organisations that could be affected by the work. Their needs, interests and expectations were all analysed.

The app is a conduit for community engagement, and as a comprehensive directory of news about the overall Broadgate framework. It includes interactive 3D maps and models, images, progress updates, events, employment and training opportunities. Users receive instant notifications of any works which may affect them and can use the app to communicate directly with the project team.

"The App represents a collaboration for the future between Sir Robert McAlpine and British Land that will improve our development process and reduce disruption on our campus. Innovation is a big part of the framework and the use of technology like this app will help us to improve communications to ensure engagement and advocacy from our tenants and other stakeholders."
Charles Horne,
Project Director, British Land

STORIES BEHIND OUR PERFORMANCE

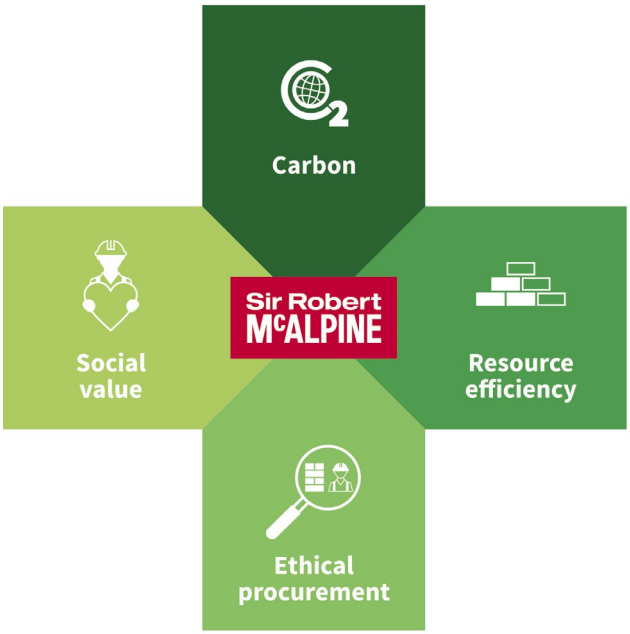
Summary and next steps

We would not be able to achieve such excellent performance against this strategy without the dedication and commitment of our sustainability department, project teams and supply chain partners. Our thanks go out to all of you.

The work we are collectively doing places sustainability firmly on the delivery agenda and ensures that we deliver a more environmentally conscious business, which leaves a positive social, economic and environmental legacy

For 2020 and beyond we've built on this performance, taken lessons learnt and listened to both internal and external stakeholders and developed our revised sustainability strategy.

We're delivering positive futures through focusing our efforts on the following four key themes:



Further information on our sustainability strategy can be found here

We look forward to sharing our performance and lessons learnt with you as we look to further embed sustainability into our operations. Driven by our new strategy and proven expertise.

Proudly building Britain's future heritage

Sir Robert McAlpine Ltd
Eaton Court | Maylands Avenue | Hemel Hempstead
Hertfordshire | HP2 7TR

+44 (0) 333 566 3444
sustainability@srm.com

www.srm.com

Sir Robert McALPINE