

BAM Ireland Sustainability Report 2022

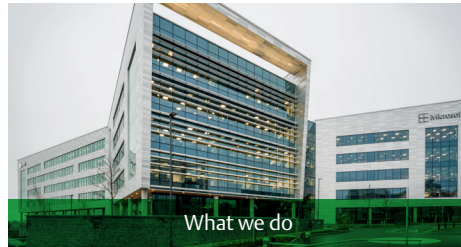
Building a sustainable
tomorrow



What's inside our report



Message from Alasdair Henderson, our ED



What we do



Our strategy and sustainability themes



Sustainability themes in detail



Our people and accreditations

BAM's strategy 'Building a sustainable tomorrow', goes hand in hand with aiming to have a net positive impact on climate change, material resources and people.

BAM values the alignment of its strategy to the 17 Sustainable Development Goals (SDGs) and recognises and supports the importance of the SDGs as a global agenda. Our business potentially impacts all SDGs, but given the nature of its business, we have identified 8 SDGs that directly influence our business.

As part of our strategy, we have defined six material themes that align with the United Nations Sustainable Development Goals (UN SDGs).



A message from Alasdair Henderson, our Executive Director

As an innovative, collaborative market leader in digital and sustainable approaches to the built environment, BAM is committed to working closely with our clients and industry partners to identify new solutions, that deliver environmental, economic, and social value.

BAM is on a journey to become a net-positive company. This means we are committed to reducing our impact on the earth's climate and natural resources, as well as ensuring that our activities leave a lasting legacy for local communities.

We take this commitment seriously; It's not just about our own behaviours and actions. It's also about working together with expert industry partners and our highly valued supply chain of specialist sub-contractors, supporting our clients, partners, and end users to achieve their sustainability goals.

BAM has been included in the CDP global ranking since 2014 and has maintained a leadership position on the prestigious CDP climate A-list for three consecutive years. The A list contains companies who are leading action on climate change and clearly disclose the steps they are taking to achieve their climate goals.

Also, our partnership with the Irish Green Building Council (IGBC) helps us create solutions to reduce our impact on climate change, prevent biodiversity loss and move our business to a circular economic model.

This involves a circular approach to the way we design, construct and operate buildings and infrastructure, ensuring that waste and pollution are kept to a minimum across the lifecycle of an asset and that materials can be reused on other schemes and projects.

BAM's partnership with the Chambers Ireland Sustainable Business Impact Awards, for over a decade now, is very important to us as it demonstrates how sustainability has become an imperative strategic focus for Irish businesses, large and small.

People are at the heart of what we do at BAM. We want to attract the best people and make the built environment a more attractive career choice. Diversity and inclusion in the workplace are critical attributes of business. We believe that developing a workforce that reflects the diversity of our customer base and the communities in which we operate helps our business thrive.



What we do

For over sixty years BAM has been at the centre of shaping Ireland’s national infrastructure and delivering many of its iconic buildings.

We are delivering for customers who are ultimately delivering for the rest of society. With a broad spread of customers, we are contributing to many important areas from public sector infrastructure, public buildings, schools, hospitals, and housing to major commercial developments.

As part of the BAM UK and Ireland Division of Royal BAM Group of the Netherlands, our expert and diverse team is committed to excellence in service delivery, sustainability, health, safety, and welfare of staff, clients, and supply chain partners. To help us deliver quality projects and services in a lean, green, safe and more efficient way our highly skilled workforce utilises the latest digital technologies and modern construction methods.

Around the country, our people collaborate with public and private sector clients to create and maintain a sustainable built environment and simultaneously deliver long-lasting social value for the communities where we live and work.

BAM provides solutions across the total construction life-cycle through its key activities:



Project development



Maintaining



Tendering



Operating



Design and engineering



Facilities management



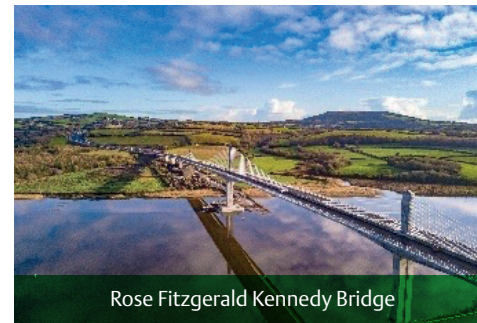
Constructing



One Microsoft Place



New Children’s Hospital



Rose Fitzgerald Kennedy Bridge



Cill Ronain Harbour



Facilities Management



VCT Dublin Airport

Our strategy and sustainability themes

BAM's corporate purpose is to:

- Provide clients with best-in-industry capabilities
- Contribute to the global movement toward sustainability
- Provide employees a safe and rewarding work environment
- Generate attractive returns for shareholders.

BAM's strategy 'Building a sustainable tomorrow' is to enhance people's lives by providing sustainable solutions across the total construction process by:



Focus on profitable growth platform

Platform for growth
Manage for value

Continue de-risking

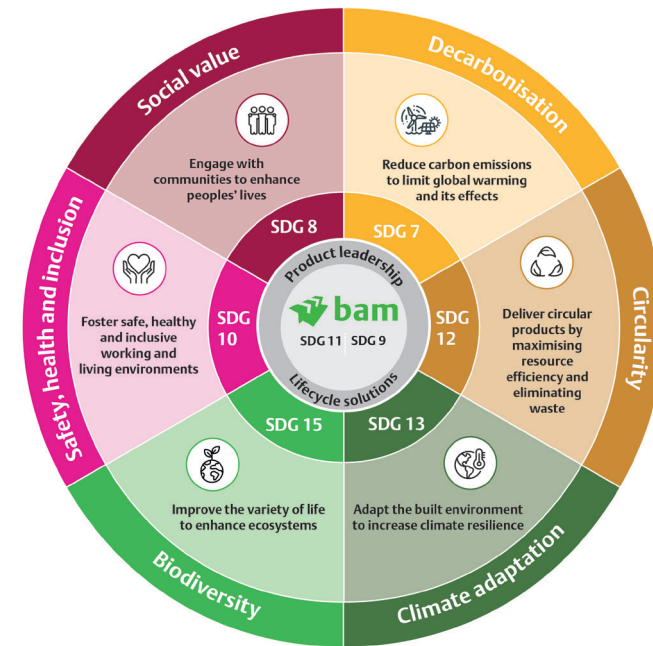
Market choices
Avoid disproportionate risk in project portfolio
Operational excellence in tenders and on projects

Accelerate opportunities for future growth

Towards process and product leadership
Lifecycle solutions and selective investments

We have expanded our corporate strategy by strengthening the sustainability focus of the company.

Closely linked to the Sustainable Development Goals (SDGs), BAM has identified six critical People and Planet Themes that are shaping the construction industry.



Sustainability themes in detail



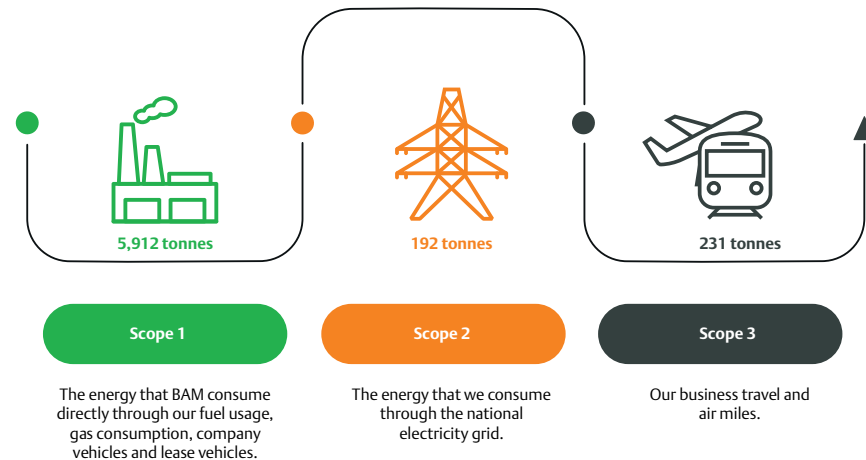
Decarbonisation

At BAM, we understand the urgency to reduce carbon emissions and the pivotal role the construction sector plays in the transition towards a sustainable low carbon society.

We are delivering on ambitious carbon reduction targets since 2009, and this has allowed us to accelerate our reduction targets for carbon emissions from our own operations (scope 1 and 2).

We are also increasingly putting effort into reducing the carbon footprint of our value chain (scope 3) where we have influence and / or control.

2021 Emissions by Scope (tonnes)



BAM reports under the Greenhouse Gas Protocol which differentiates between three scopes, namely emissions directly by resulting from our own activities (scope 1), indirect emissions from purchased electricity, heating, and cooling (scope 2), and indirect emissions in our value chain (scope 3).



EV solutions

Launch of EV Charging Solutions across the UK and Ireland.

Delivers an end-to-end EV charging infrastructure solution for businesses, which supports our clients on their road to zero.



BAM fleet

We are working to significantly increase the share of electric vehicles in our vehicle fleet. BAM Group have increased the amount of fully electric fleet vehicles from 269 in 2020 to 354 in 2021 (a share of seven per cent of the total lease fleet).



Electric road paver

In the Netherlands, we are working with Wirtgen and New Electric to develop a fully electric asphalt spreading road paver. It saves more than 93,000 KG of CO2 and 115,000 grams of nitrous oxide emissions compared to its bio-diesel counterparts.



Circularity

BAM strives to become an integral part of the circular economy, eliminating waste over the lifecycle of its developments and increasing circular aspects and approaches in projects.

BAM aims to preserve raw materials and resources over the lifecycle and deliver projects using safe, healthy and renewable materials.



Net-zero energy housing

In the Netherlands, BAM are delivering energy / climate-neutral solutions by retrofitting social housing cooperative homes. To date, residents of 1,200 homes have reduced their energy consumption and the homes have generated surplus energy.

BAM intends to:



Eliminate wasteful construction practices and deliver projects that will produce less waste in operation.



Promote the circular economy by using products and materials that can easily be maintained, re-used or repurposed in the future.



Avoiding low grade recycling wherever possible.



Procure materials from certified responsible sources.



Climate adaptation

Climate adaptation is an important aspect of BAM's corporate climate strategy as it looks at how we deal with risks and opportunities associated with climate change.

BAM addresses climate adaptation through the assessment of climate change risks at project and business level and through its stage gate procedure. BAM discloses the full details of its climate change risk assessment in its CDP submission.

Key risks and opportunities identified in 2021 relate to:



Market-related risks and opportunities (e.g., changing client behaviour leading to an increased demand for low-carbon products and zero-energy solutions).



Product- and services-related risks and opportunities (e.g., development of lower-carbon construction materials pushing the market to innovate and develop a lower carbon footprint).



Physical weather conditions (e.g., adaptation to sea-level rise by exploring potential future additional demands on water / land).

Climate adaptation is also important for the projects BAM delivers. We help future-proof our client's assets by offering climate resilient buildings and offering civil engineering solutions to mitigate climate hazards.



Het Kadehuis, a climate resilient building in Arnhem in the Netherlands developed by BAM. In this project, the roof landscape reduces heat stress in the built environment.

This effect is also achieved by the greenery on the terraces which serve as a water buffer and contributes to biodiversity in the inner city of Arnhem.



BAM Nuttall in collaboration with Mott MacDonald, delivered a major flood alleviation scheme to improve protection against climate change and sea level rise in Hull, United Kingdom.

This scheme plays a major role in enabling the Environment Agency reaching its target of protecting 300,000 homes from flooding in Hull.



Biodiversity

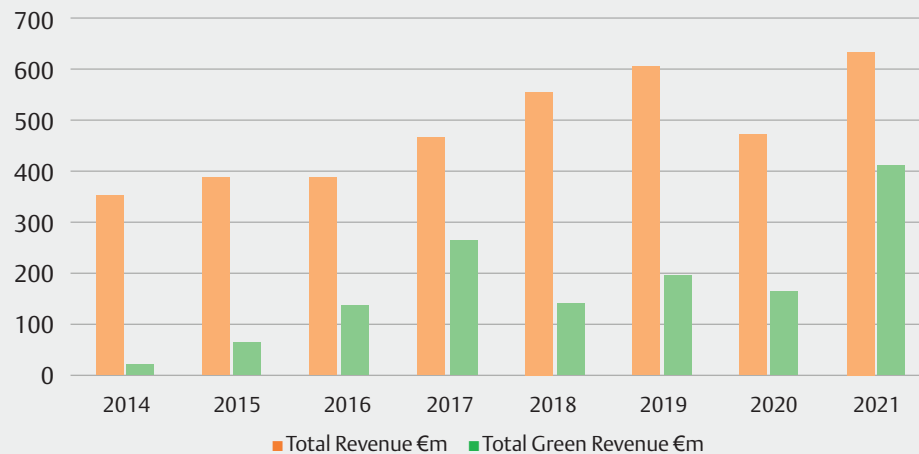
Biodiversity is important for BAM in the construction and delivery of our projects. We see an opportunity to improve biodiversity and deliver biodiversity-enhancing assets as part of our purpose to create environments that enhance people’s lives. BAM helps its clients restore and improve ecosystems.

Revenue from green buildings

2021 saw an increase in BAM’s ‘Green Revenue’ from 35 per cent of total revenue to 64 per cent of total revenue. BAMs Green Revenue is reported to the BAM Group on a quarterly basis using SAP-BPC.

Green Revenue is defined as any project which is required to achieve a BREEAM or LEED rating.

Green revenue vs total revenue €m



Our Green Acre Grange Residential Project for Marlet Property incorporates both a Green & Blue roof. The Green roof will encourage biodiversity and allow plant, bird, and insect life to thrive. In addition, a Blue roof system will also be installed beneath the Green roof vegetated finish.

This new sustainable urban drainage technology eliminates the need for large attenuation tanks and reduces the discharge of rainwater and mitigates the risk of localised flooding.



Our 160,000m² New Children’s Hospital is being built to BREEAM excellence standards. Features include glass biomes and panels that permit natural light throughout the building. Another feature includes the Automatic Opening Glass Vents (AOVs) which enable natural light, ventilation and temperature control in the concourse area.

Both these energy-efficient systems will deliver a 60-70% reduction in energy running costs.



Safety wellbeing and inclusion

People are at the heart of what we do at BAM. We want to enhance the lives of both the communities in which we work, and the lives of the people who work with and for us. Safety, well-being and inclusion are a prerequisite.



Safety

Safety is unconditional. It is more important than planning or profit. More important than anything you can think of. 'After a hard day's work, we all want to go home safely. Get up the next day healthy and start a new working day: a safe working day. We look after ourselves, each other and society as a whole. On the construction site, on the road and in the office; Your Safety is My Safety.



Wellbeing

We are committed to a workplace where employees and partners feel healthy, safe and engaged and supported. BAM encourages our employees to achieve a good work life balance so they can achieve their best for themselves and for our customers. We have over 180 Wellbeing Champions in the UK & Ireland Division who are Mental Health First Aid trained and are there to listen and help.



Inclusion

We recognise that in order to execute our strategy of building a sustainable tomorrow, lead the industry in digital construction and remain successful – a diverse & inclusive culture is not only important but critical. A diverse workforce of individuals with different ideas, strengths, interests and cultural backgrounds. We can ensure that we can make better decisions, deliver the best innovation and insight to our customers by attracting the best talent with diverse perspectives.



BAM safety day

During this annual event every October, activities are organised to increase awareness of safety and wellbeing and to encourage colleagues to come up with ideas for further improvement. Our 2021 event included seminars, masterclasses, workshops and discussions on stress, lifting scaffolding and subcontractor engagement.



BAM wellness festival

An annual event where we focus on achieving good physical and mental health. Activities include webinars, online fitness classes, walk and talk sessions, and nature photo competitions.



Inclusion

By 2025, our goal is to have a workforce that: has gender parity, is culturally diverse, supports a culture that attracts at least 5% of employees who identify as LGBTQ+ and supports an environment where employees who live with disabilities can thrive.



Social value

Social Value is the additional value created through the delivery of our contracts that has a wide community or public benefits. It's the value that we apportion to activities that improve the social, economic, cultural or environmental development of a place.

Social Impact is about the positive change that is experienced through the delivery of social value activities. It's the long-term sustainable change on people and communities as a result of our work. It's about profit for purpose and about the social consciousness of a business.

The type of social impact that we deliver includes things like:



Creating sustainable new jobs for local people



Supporting the development of community programmes through volunteering



Reinvesting into the local economy through supply chain procurement

In essence, social value and social impact are about leaving a community in a better position than when we arrived.

Sustainability doesn't just apply to the environmental sustainability of our built environment it's about the wider social and economic development of people in society.

BAM NCH community benefit fund

Launched in 2020, the fund will see €500,000 distributed over three years. Grants are awarded to projects that focus on building stronger communities, greener communities, recreation, sports, arts and culture & education and employment opportunities across the communities of Dublin 8 and 12.



BAM Community Benefit Fund - Educational Bursary Recipients



Lighthouse Charity

We are devoted supporters of the Lighthouse Construction Industry Charity which provides mental, physical, and financial well-being support to the construction community and their families. Special thanks to our colleague Phil Reilly who repaired and refurbished the charity lighthouse and created a wooden base in time for the Lighthouse annual lunch in July.



Over 25 charitable and community groups benefited from the €150k donated by BAM in 2021. This is in addition to the voluntary work our BAM colleagues undertake in the communities where we work.



Cover Image: Boland's Quay
(Warner Corporate Photography)

Our people and accreditations

Recognition and benchmarks




CIRI is the definitive listing of main contractors and sub-contractors operating in Ireland that are competent to carry out works on behalf of public and private clients.



BAM has achieved leadership status with the global Carbon Disclosure Project earning a performance rating of A. This ranks us in the top companies globally in reporting and tackling climate change.




They are the professional body for engineers in Ireland. With over 25,000 members from every discipline of engineering, Engineers Ireland is the voice of the engineering profession in Ireland.



(Leadership in Energy and Environmental Design) is the most widely used green building rating system in the world. LEED certification is a globally recognized symbol of sustainability achievement.



BAM was the first organisation in the country to achieve the international industry standard PAS 192-2 verification for the use of BIM process for delivery construction projects. Verified by the British Standards Institution (BSI is a mark of excellence in BIM).



Our Safety Management System is certified to ISO 45001: 2018. Our Quality Management System is certified to ISO 9001: 2015. Our Environmental System is certified to ISO 14001: 2015.



Is the world's leading sustainability assessment method for masterplanning projects, infrastructure and buildings. BREEAM does this through third party certification of the assessment of an asset's environmental, social and economic sustainability performance, using standards developed by BRE.



Irish Green Building Council pushes forward the whole life carbon and circularity agenda in the construction sector.

Our team



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View our Sustainability video at
www.bamireland.ie/sustainability