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2023 Sustainability Commitment

Martin Wood - Founder

Designs that are fully rooted in a Design to Value methodology should, in addition to the capital cost and return on investment, also consider criteria such as the expected lifetime of components and materials, as well as aspects such as location, climate change, or the wellbeing of the people. This strategy adopted across our design portfolio is also critical to Bryden Wood achieving our commitment of becoming Net Zero Carbon by 2050.



Mark Bryden - Founder

Over the years we have been driving change in the design and construction industry by advancing the adoption of modern methods of construction and principles of sustainability, which are now commonplace. One of our practice's primary concerns has been providing optimum solutions that deliver maximum efficiency in construction and operation, and as a result reduce the use of natural resources, waste generation and carbon.



Paul O'Neill - Board Director

We champion architectural integrity, and ensure quality is delivered throughout the business. We have significant experience delivering complex projects, where we offer our broad knowledge of construction techniques, innovation and our deep knowledge in building physics and sustainable design. Our approach to all projects combines high quality design, a rigorous delivery process, a true commitment to reducing our environmental impact and the aspiration to realise schemes of design and aesthetic merit.



Ian Pegrum - Board Director

As MEP designers we work to minimise energy use using passive and active measures whilst maintaining comfort within buildings. As a business we also have a responsibility to adopt robust environmental practices that limit our impact on the environment whilst enhancing the health and wellbeing of people who use our assets.



Pablo Gugel - Sustainability Director

Our response to the climate crisis is a holistic approach that embraces sustainable design, circularity and wellbeing, with a strong focus on carbon. Our response to the current challenges of the built environment is comprehensive as a business and as designers, as we look for synergies between our clients and collaborators and use building physics and analytical tools to support our decisions.



Helen Hough - Head of Sustainability

There is growing consensus in the industry that the way we design, build, operate and dispose of our buildings and associated facilities needs a major overhaul. Our aim must be to prevent waste, increase efficiency, reduce carbon emissions and promote construction methodologies that support both people and the environment.



Our Vision

Through integrated expertise, innovation, deep experience, open minds, and creativity, we unravel the most complex problems and create exceptional, sustainable solutions for the future of global infrastructure.

Bryden Wood is a global company, that delivers solutions at scale to solve some of the built environment's most urgent and complex problems.

New commitments set out by the government in 2021, stated that the UK will reduce carbon emissions by 78% by 2035, and become Net Zero Carbon by 2050. The construction sector produces around 40% of total UK carbon emissions (based on UKGBC Whole Life Cycle Carbon Roadmap), which means the challenge and focus rightly sits with our sector.

The construction sector is a major consumer of natural resources, and the climate crisis demands smarter, more sustainable construction solutions. In order to revert current global warming trends, as designers we must embrace environmental design, doing everything we can to maximise positive human impact on society, deliver regenerative solutions and protect the natural world.

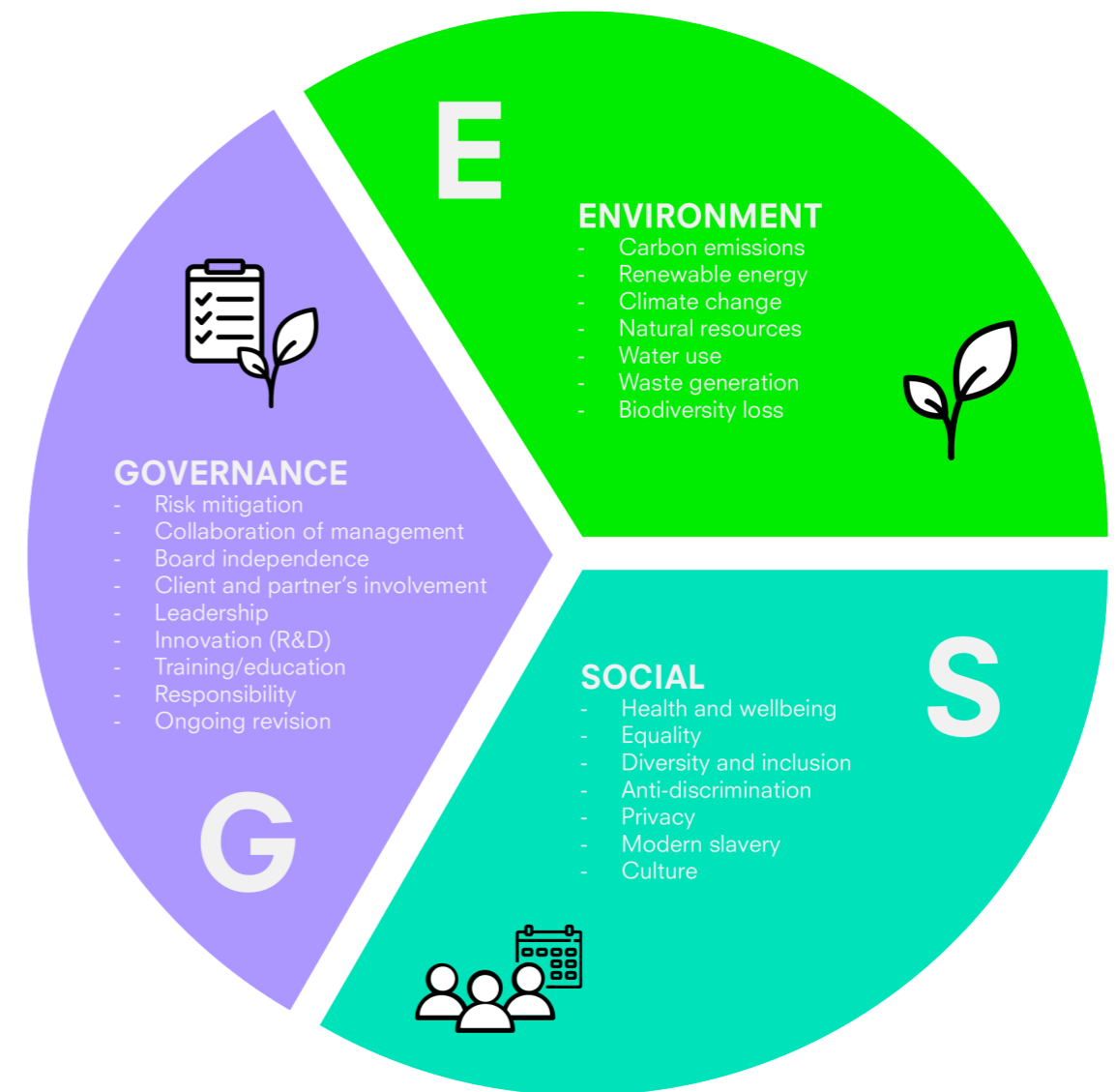
In response to this challenge, Bryden Wood has put together this document that details our commitments related to sustainable development, procurement and carbon including our aspiration for becoming a Net Zero business.

We are committed to the following key environmental aspirations:

- Reducing our emissions by half by 2030 and becoming Net Zero Carbon by 2050.
- Working towards net zero carbon, zero water, and zero waste in all our projects.
- Promoting circular economy in our designs.
- Aligning with UN Sustainable Development Goals.
- Monitoring and reducing the carbon emissions associated with our transportation footprint.

What have we achieved during 2023?

- We have renewed our commitment with SME Climate Hub.
- We have complete our Carbon Management Plan for the UK business (in line with PAS 2060).
- Our calculations have been verified by Carbon Footprint Ltd.
- We have offset our emissions and established ourselves as a carbon-neutral SME (UK business).
- We have also been certified with Ecovadis with a Gold rating.
- We are in the process of becoming a Net Zero company in line with Science Based Targets.
- We have created a Sustainability Fund to ensure all projects have an allocated fee to implement best practice sustainability strategies.



Bryden Wood ESG Strategy diagram



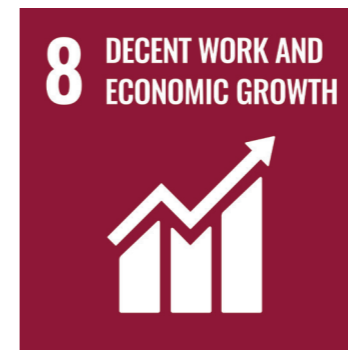
DRIVING AMBITIOUS CORPORATE CLIMATE ACTION

Our commitments: Sustainable development

In a context of climate emergency, we are committed to the UN Sustainable Development Goals, using our expertise, innovative mindset and ingenuity to reduce the environmental and social impacts of our activities.

We are committed to ensuring the United Nations Sustainable Development Goals are embedded and rooted within our operations and designs. We have a clear responsibility as a company and as designers to reduce our environmental impact and we have committed to address the following Goals:

- Embrace climate action, and address the risks associated to the climate emergency (13).
- Facilitate the transit to an affordable Net Zero Carbon industry (7, 13).
- Improve health and wellbeing in our premises and the buildings we design (3).
- Create social value, promote equality and positive economical impacts in the communities (5,8,10,11).
- Reduce environmental impacts associated to our activities (carbon, water, waste, use of natural resources) (6,12,14).
- Adopt circular economy principles, decoupling economic growth and consumption (8,12).
- Promote innovation, industrialisation and digitalisation (9).
- Protect ecology and foster biodiversity (15).



Our commitments: Carbon

We are committed to reducing our operational carbon emissions by half by 2030 and become Net Zero Carbon by 2050.

To achieve these targets, we have defined the following objectives as a company:

1. Carry out Scope 1, 2 and 3 emission calculations and align with Science Based Targets (SBT).
2. Reduce Scope 1 and 2 emissions in line with Bryden Wood Carbon Management Plan.
3. Reduce Scope 3 emissions from transportation in line with Bryden Wood Carbon Management Plan by:
 - Using 'twin-role' partners in other offices that can represent key members of the team and the use of technology to avoid flying.
 - Promote the use of online meetings and digital tools
 - Reducing short haul flights.
 - Exploring the use of reliable carbon offsetting schemes.
4. Reduce Scope 3 emissions from waste and purchased goods.
5. Reduce our emissions globally and to its maximum extent, before the use of carbon offset schemes.
6. Purchase Gold Standard offset credits from the most reputed schemes.

We are also committed to reducing the life cycle carbon of our designs and will adopt the following objectives:

1. Aim to Net Zero Carbon, where possible.
2. Prioritise the refurbishment of existing buildings first, where technically feasible.
3. Promote the design of fully electric buildings and benefit from the decarbonisation of the grid.
4. Calculate and reduce embodied and operational carbon where possible.
5. Normalise the use of Environmental Product Declarations (EPDs) and responsible sourcing certificates.
6. Adopt circular economy principles in design and construction.

Scope 1



Company facilities (Gas)

Scope 3



Business flights



Staff commuting

Scope 2



Purchased electricity
(cooling, lighting, power)



Waste generated in
operations



Purchased goods
(food, stationary...)
and services
(cleaning ...)



Capital goods
(buildings, furniture,
hardware...)

Implementation

Bryden Wood has consolidated these commitments which form part of our vision and best practices that will be adopted across all our offices.

This includes the following measures as a business:

- minimising energy use in offices;
- closely reviewing energy suppliers to promote the use of renewable energy;
- promoting sustainable transportation measures;
- promoting alternative working practices;
- reviewing our waste management practices;
- reviewing our procurement practices;
- collaborating with clients and partners to implement best practice environmental design measures;
- using research and development and innovation as core practice in our projects.

In order to ensure best practice carbon measures in our design, Bryden Wood has created a Sustainability Fund which ensures the following:

- Key projects will go through Sustainability Reviews after each design stage and after completion to identify lessons learnt and opportunities for the next stages.
- All new projects will accommodate a percentage of the fee for dedicated sustainability and building physics analysis.

Monitoring of these commitments is the responsibility of the Board with support from and the Sustainability and Building Physics Team.

Our approach to carbon reduction as a business

Bryden Wood is committed to reducing our carbon emissions and the impact our business has in and on the environment.

We have prepared a Carbon Management Plan for our London and St. Albans offices, which sets out our ambitions and roadmap to become Net Zero Carbon by 2050 and reduce our emissions by half by 2030, in line with our commitment with the UK Business Climate Hub.

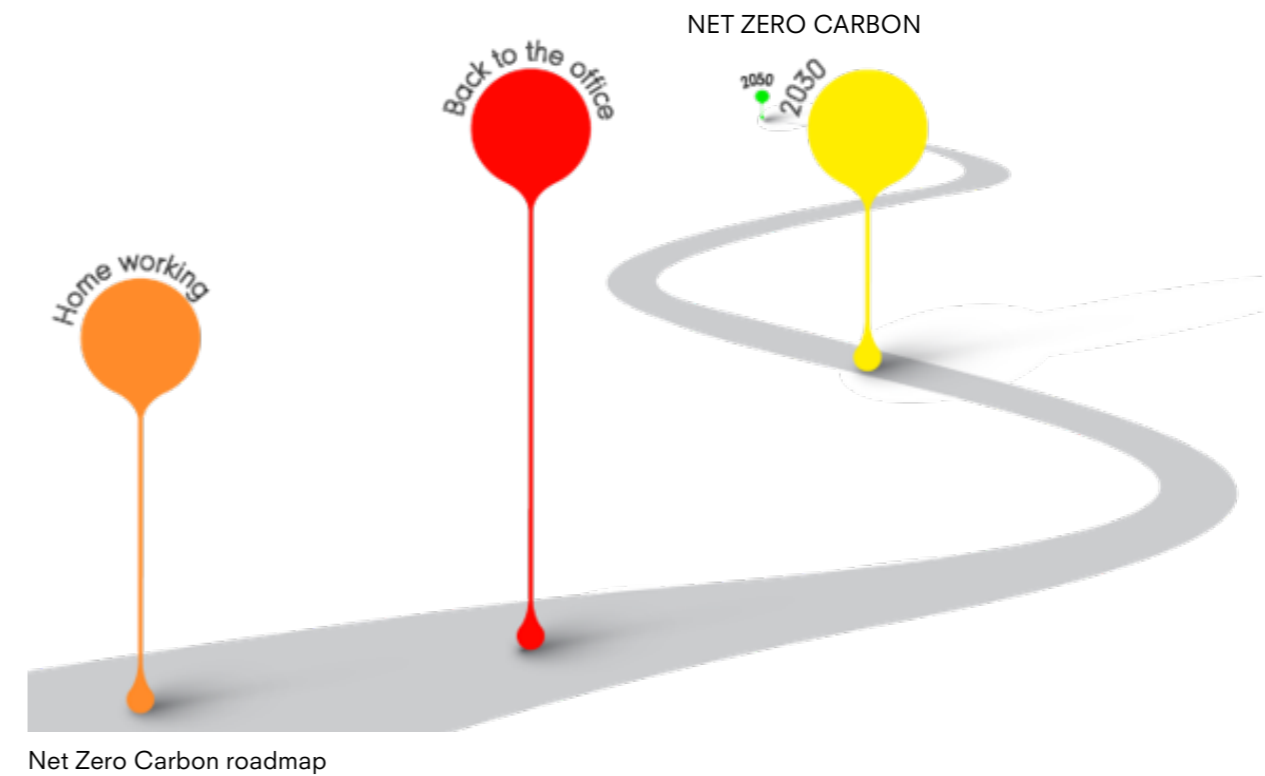
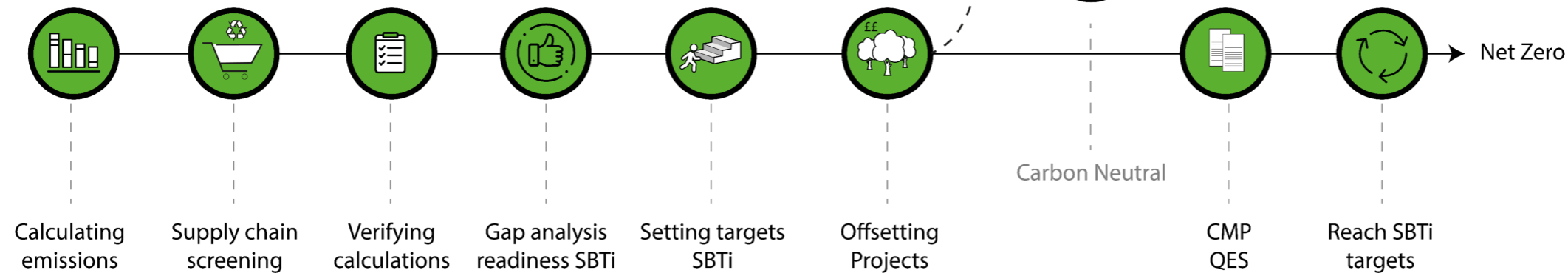
The actions outlined within this document form part of our efficiency plan to reduce our impact and consumption and provide value for money.

In 2021 we started our journey to become Net Zero Carbon and signed a pledge with UK Business Climate Hub to reduce our emissions. In 2022 we committed to quantify our emissions in line with PAS 2060 and Science Based Targets (SBT) and establish a business action to avoid temperatures to raise above 1.5C. By the end of this year (2023) our offices will be net-zero carbon.

The assessment includes the emissions from other offices that reach a minimum of 15 employees and the office space is an independent tenancy.

The process to become Net Zero, is described in the diagram below and requires the following steps:

1. Calculate emissions in line with PAS 2060 methodology, including Scope 1, 2 and 3.
2. Carry out a supply chain screening to quantify the impact of our procured goods (Scope 3).
3. Verify calculations by a third party and carry out a gap analysis.
4. Set targets and path in line with Science Based Targets (SBT).
5. Offset remaining carbon emissions.
6. Produce a Carbon Management Plan.
7. Bryden Wood becomes Net Zero.
8. Revise our targets and process yearly to reach the SBTi targets.



Our approach to carbon reduction in our projects.

Due to the growing pressure from competition and the more demanding building regulations in the construction industry, many new developments claim they can achieve net-zero carbon emissions.

In many cases, this refers to achieving net-zero carbon in operation which doesn't account for the embodied carbon of the building over its life-cycle. A truly net-zero carbon building is one that achieves zero operational and zero embodied emissions.

Buildings are net zero carbon when the carbon emissions associated with a building's products, materials, construction stages, use (including operation) and deconstruction, is zero or negative. This can be achieved through measures to limit the carbon impact of materials, the implementation of energy efficiency measures, the use of on-site renewables and finally a combination of carbon offset schemes and green Power Purchase Agreements (PPA). It should be noted, that for most new developments nowadays it is not feasible to become net zero within the possibilities of the design (energy and material efficiency measures), so the use of carbon offset schemes and PPA is still necessary.

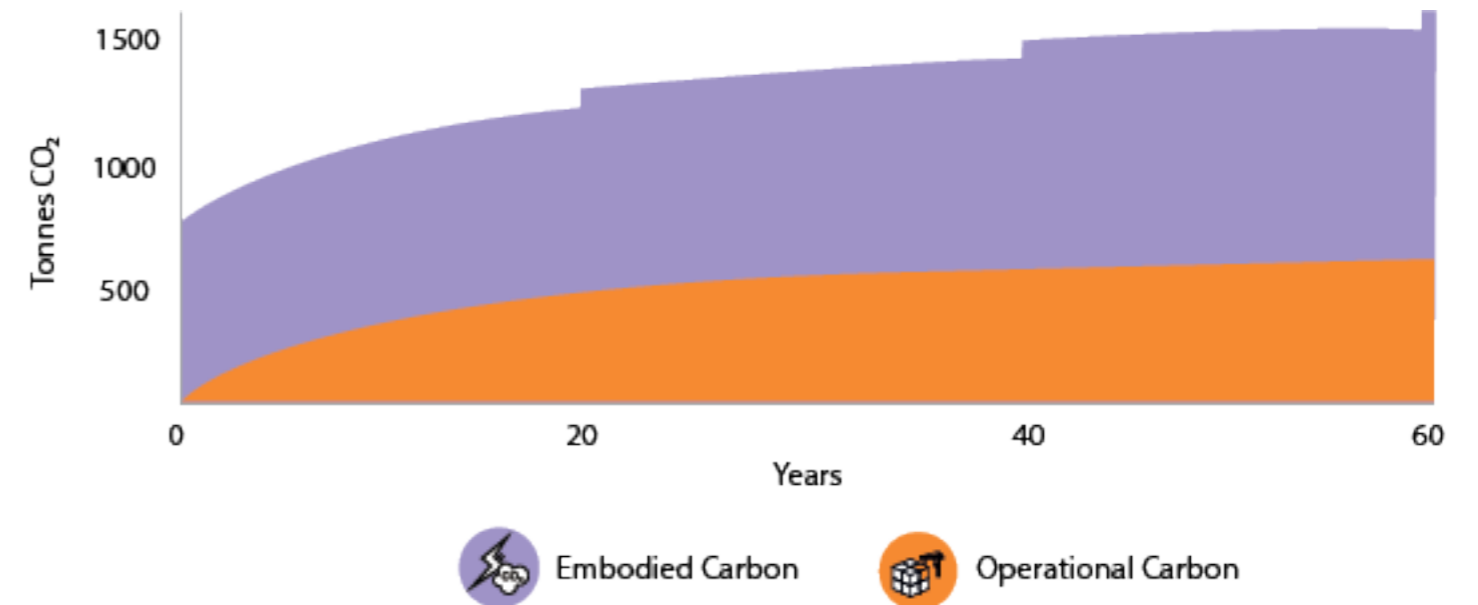
Why Net Zero? A shift to embodied carbon

The UK aspires to reduce its total carbon emissions by 78% by 2035, compared to 2020 levels, and become net zero carbon by 2050. These ambitious targets, translated to the built environment, can only be achieved by:

- Implementing measures to reduce operational and embodied carbon of new buildings,
- Upgrading existing buildings
- Adopting progressive, new policies
- Fully decarbonising the electrical grid.

The built environment contributes around 40% of the UK's total carbon footprint. The embodied carbon of a typical Cat-A office building after the first year of use, is substantially higher than the operational carbon.

Although the operational carbon will accumulate overtime, a decarbonised grid will mean that the growth rate will flatten, and after 60 years the embodied carbon will remain higher than operational carbon, as shown in the adjacent image. This means that the focus and the priority should shift from operational to embodied carbon during the design.



Typical embodied and operative carbon accumulated over 60 years accounting for the decarbonisation of the grid.

Our commitments: Sustainability - Our use of natural resources, water, waste and biodiversity

Bryden Wood is committed to supporting the UN Sustainable Development Goals and involving our teams, clients and collaborators to reduce the environmental impact of our operations and designs.

To achieve this target, we have defined the following objectives:

1. Promote responsible environmental stewardship related to our operations as a business.
2. Monitor our environmental impacts regularly and set targets to reduce them.
3. Implement management strategies for the efficient use of natural resources and water in our project work and within our own facilities.
4. Explore Net Zero Water consumption in our designs.
5. Explore Net Zero Waste designs and zero waste sent to landfill.
6. Implement management strategies to reduce the waste generated in our project work and within our own facilities.
7. Protect and promote sustainable use of ecosystems and strive to reduce the loss of biodiversity.

Implementation

Bryden Wood has consolidated these commitments which form part of our vision and best practices that will be adopted across all our offices.

This includes the following measures as a business:

- a holistic view of our operations and facilitating a clear view of the environmental outcomes and impacts;
- utilising resources for R&D and adopting innovative measures to reduce our environmental impact;
- reviewing our waste management practices;
- reviewing our water management practices;
- reviewing our biodiversity practices.

In order to ensure best practice sustainability measures in our design, Bryden Wood has created a Sustainability Fund which ensures the following:

- Key projects will go through Sustainability Reviews after each design stage and after completion to identify lessons learnt and opportunities for the next stages.
- All new projects will accommodate a percentage of the fee for dedicated sustainability and building physics analysis.

Monitoring of these commitments is the responsibility of the Board with support from and the Sustainability and Building Physics Team.



Our commitments: Purchasing

Bryden Wood will incorporate environmental, social and economic considerations in the purchasing of products and services and work collaboratively with suppliers to become more sustainable.

This Policy aims to reduce the environmental impacts associated with products purchased as a business and procured as designers. To achieve this target, we have defined the following objectives:

1. Encourage our suppliers and contractors to minimise negative environmental and social effects associated with the products and services they provide.
2. Ensure fairness, integrity and transparency.
3. Obtain best value for money on a lifecycle basis.
4. Ensure that local and smaller suppliers are not discriminated against in our procurement process and specifications.
5. Give preference to products and services that can be manufactured, used, and disposed of in an environmentally and socially responsible manner.
6. Encourage local sourcing of products and materials.
7. Ensure that sustainability criteria are included in specification to suppliers, where possible.
8. Ensure that sustainability criteria are used in the award of contracts, where possible.
9. Ensure that suppliers' environmental credentials are considered in the appraisal process.

Implementation

Bryden Wood has consolidated these commitments which form part of our vision and best practices that will be adopted across all our offices.

This includes the careful evaluation of suppliers with which we do business:

- give priority to suppliers with IMS (ISO 9001 & 14001) or EMS (ISO 14001) certificates or similar standards;
- give priority to companies local to our offices;
- give priority to products that comply with recognised technical standards;
- not use companies employing child labour, or manufacturers of land mines and their components.

In order to ensure best practice purchasing measures in our design, Bryden Wood has created a Sustainability Fund which ensures the following:

- Key projects will go through Sustainability Reviews after each design stage and after completion to identify lessons learnt and opportunities for the next stages.
- All new projects will accommodate a percentage of the fee for dedicated sustainability and building physics analysis.

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