



# ***Environment and Sustainability***

*World leading supply chain expertise*

british  **aviation** group

## Our Vision

***The aviation industry has, over the years supported the operations of businesses and communities across the globe. BAG and its members recognise that in order to continue to do this, the aviation industry must embrace a new normal and achieve environmental, social and economic sustainability. Specifically:***

- *We understand that challenges of the 21st Century mean that the aviation sector must immediately develop a clear and transparent path to achieving a sustainable aviation future.*
- *By 2050, the industry must be able to tackle the challenge of achieving net zero carbon operations as well as embracing energy transition and moving towards wider use of sustainable aviation fuels.*
- *At BAG we believe that a sustainable aviation sector can only come if the industry demonstrates a clear commitment to achieving a broad suite of sustainable development goals with economic, social and environmental wellbeing at the heart of 21st Century operations.*
- *BAG members can help achieve this and are able to support the aviation industry, using their considerable expertise in fields such as sustainable design, climate change adaptation, community engagement and environmental planning to deliver first class projects at all stages of the airport sectors lifecycle.*

## Drivers of change in the aviation industry





# What BAG and our members can offer

The British Aviation Group (BAG) is the leading representative body for British companies involved in aviation and airport development and operations. We provide world class expertise to meet the challenges of global aviation industry, creating the airports of the future through the power of our network.

We are the first port of call for global clients to connect to the full spectrum of British aviation expertise delivering solutions for airports large and small. We have had amazing success working in over 150 countries and at the 60 largest airports delivering value, efficiency, sustainability and resilience. Visit the BAG Online Sustainability Directory [www.britishaviationgroup.co.uk/sustainability](http://www.britishaviationgroup.co.uk/sustainability) to browse BAG members' experience and capability in Sustainability.

BAG members are at the forefront of sustainability practice, providing innovative solutions to the challenges of today through the products and services they provide. BAG member companies have an impressive track record in reducing environmental and social impact of aviation – including reduction of CO<sub>2</sub>; management of noise and air quality, biodiversity, and surface ground water pollution; and the efficient management of resources such as energy, waste and water.

The following pages showcase the world class sustainability services that our members provide to the aviation industry.

## Net Zero Carbon

Sustainability is about three pillars – environmental, social and economic – and all of those pillars have to be achieved in order for the sector to be successful. However, we understand that achieving Net Zero Carbon has to be an absolute priority if we are to halt the effects of climate change. Our members advise on the best way to achieve ever more stringent climate goals whilst at the same time maintaining a profitable and economically sustainable aviation sector.

## Health & Well-being

Our members provide a range of services looking at wellbeing from the perspective of staff, users and those that live in the vicinity of airports.

Health and wellbeing has always been a central tenet of the planning, development and operation of the aviation sector, where we work to engage, support and protect our host communities, and are entrusted to safely convey millions of people from origin to destination. Members' capabilities in this context are extensive, ranging from health stakeholder engagement to align Airport CSR and to support the delivery of local public health priorities and needs; to the full remit of health impact





assessment to inform more health-conscious master planning and EIA; through to operational health risk management for staff and travellers alike.

## Waste Management

Waste Management has long been a necessary part of our day to day operational strategies with the potential top result in both costs and savings to the businesses in which we operate. From packaging and plastics, to reuse and recycling our members advise on the right options for your corporate strategy.

Aviation development also faces challenges from clean up of contamination to discharge of liabilities and due diligence. Our members can advise on these critical development issues.

## Water

Water and waste water are an essential part of airport operations, the treatment and movement of water and waste water uses energy and chemicals as well as considerations for our local environment in the source and discharge. Opportunities for water reduction, reuse and efficiency in airport systems can provide multiple benefits. Airport environments also provide the opportunity to profile awareness of good practice in the use and reuse of water within circular systems.

## Climate Change Preparation

Preparing for climate change goes far beyond the greenhouse gas reductions that we all strive to achieve. It is a new way of operating airports that brings efficiencies and cost savings to airports, drives innovative solutions in infrastructure and surface transport and most of all encourages our members and our clients to seek partnerships to deliver against regulatory and market expectations. BAG members have been working with the aviation industry to help in delivering that change in a way that is sustainable and cost effective both at the environmental and the economic level.

## Technology & Innovation

Whether it's cutting edge smart technology to help your passengers navigate touch free through your airport, digital data capture and real time environmental monitoring or the latest innovation in equipment and fuels our members are at the forefront of technology and innovation. Our members understand your need and will create to understand your needs and we will create the right

technology partnerships to ensure that wherever you are in the aviation industry, your business is future ready.

## Environmental Planning, Design & Consent

BAG members have collectively delivered consents and permits for some of the largest aviation infrastructure projects in the world. With a truly global outlook our members have worked extensively on every continent in the world offering pragmatic advice working with our clients tailoring projects to the needs of local and international standards. They are at the forefront of sustainability practice, providing innovative solutions to the challenges of today through the products and services they provide.

## Social & Community

Connecting with communities and society has never been as important nor as challenging as in recent times. Our members can help you develop the right strategies to ensure that stakeholders understand the benefits that airports bring to local economies as well as reporting on the things that matter at the local and national level. From climate change action plans to long term strategic planning, from the development of sustainable aviation fuels and electric aircraft to designing the most energy efficient terminals, from reengineering airspace to reduce the effects of noise to developing sustainable ways to get passengers to and from airports, our members are pushing the boundaries of the possible whilst recognising that meaningful change will involve a variety of measures that will be developed and implemented over a generation.

## Meeting the challenge

2020 has been an unprecedented year for the global economy with the aviation industry facing the extreme challenge posed by COVID-19 together with increasing pressure on governments and regulators to meet the targets associated with Net Zero 2050.

BAG members do not shirk that challenge, we recognise the need to build back better and engage with governments' objectives to promote policies that will help the industry deliver against Net Zero targets.

Alongside strategic advice BAG members offer a variety of tools from virtual and actual events, to bespoke reporting, analysis and presentation tools to help you connect with the people that matter, your stakeholders and customers.

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# Case Studies

## Heathrow Expansion

The Heathrow Expansion project is one of the UK's largest ever infrastructure projects. It seeks to develop a third runway at Heathrow Airport thereby allowing capacity to increase by more than an additional 50%, and to more than 720k Air Traffic Movements annually. To be able to cope with the level of work that was required, Heathrow developed an innovative approach to procurement. Seven core consultants, most of which were BAG members, were appointed to lead the work albeit supported by a significant cast of others including many who had particular niche specialist focuses.

This approach to procurement was particularly important to ensure that the vast amount of environment and sustainability work could be undertaken appropriately. All seven core consultants, and more than 10 others were involved, forming a team with a diverse range of skills and experience, and that collaborated with each other with no organisational boundaries. There were two key focuses: to design the project to be the most sustainable that it could possibly be; and to produce all the documentation needed to meet the requirements of the Environmental Impact Assessment process. In doing this, work was wide ranging covering carbon reduction, air and ground noise management, air quality improvement, biodiversity enhancement and sustainable management of water. The work undertaken led to proposals including: innovative airfield and airspace operating procedures to reduce noise and fuel burn; state of the art energy efficient terminals; the creation of major new areas of greenspace to enhance the regional biodiversity resource and provide significant opportunities for recreation for local people; and an enhanced water environment with sustainable drainage and re-naturalised rivers. The project in its entirety demonstrates clearly how BAG members were able to come together and work collaboratively to achieve the most sustainable outcome possible for airport expansion.



## Hong Kong

Since the opening of the new Hong Kong International Airport in 1998, the airport has continued to expand to meet increasing demand. A series of developments on the original airport island have included Terminal 2, SkyPier and AsiaWorld Expo; the Midfield Concourse; and expansion of cargo, maintenance and business aviation facilities.

In 2012 the Government of the Hong Kong Special Administrative Region (HKSAR) approved in principle the adoption of a 3 Runway System (3RS) as the development option to support continued growth of the airport. This includes new land formation of approximately 650ha, with provision of a new third runway and taxiways, aprons and aircraft stands; a new passenger concourse building; expansion of the existing Terminal 2 (T2) building; and related airside and landside works.

Sustainable development has been a key theme in the planning and development of the airport since its inception – and HKIA is committed to becoming one of the world's greenest airports. UK companies have played a central role in delivering this ambition – from leading environmental and social impact assessments for the development, to the design and construction of facilities. The Midfield Concourse, for example, was designed as an exemplar sustainable building, incorporating some 35 key green initiatives to deliver a sustainable, high-performance building.







## Contact us

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Or look us up on our website:

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