



Backing Britain

Our impact on the UK economy in 2023

Contents

2023 at a glance	2	Case studies	32
Foreword – Louise Kingham, CBE	3	Camm-Pro	32
bp's impact on the UK economy in 2023	4	Costain	33
Direct economic impact, jobs and taxes	6	The EV Network	33
Indirect economic impact – spending with UK and international suppliers	8	Empirisys	34
bp's total UK economic footprint	12	HYDRI consortium	34
2023 taxes collected and paid to the UK government	14	Dynamon	35
Backing Britain in 2023	16	Johnson Matthey	36
bp in the UK – investing in the UK's energy system	18	Wood	36
North Sea oil and gas – producing energy today and investing for tomorrow	20	Continuum Industries	37
Mobility and convenience – fuels, food and EV charging	22	Social performance – bp in the community	38
Hydrogen – developing hydrogen hubs in the UK	24	Investing in education and skills	40
Power and CCS – a lower carbon future for Teesside and Humberside	26	Boosting social mobility	42
Offshore wind – harnessing the power of UK offshore wind	28	Supporting communities through volunteering and charitable giving	44
Solar – accelerating the UK's solar sector	30	Working to boost Britain's biodiversity	48
		Glossary and Methodology	50
		Additional information	51



Click on the home icon to return to the contents page







2023 at a glance

Economic impact

£17.1bn

contribution to UK GDP – equivalent to

0.64% of UK GDP

81,000

jobs supported – equivalent to

1 in every 410 jobs

in the UK

£5.3bn

spent with

>2,600 suppliers

of operational goods and services and

>540 suppliers

of capital goods and services

Business

59mmboe

of oil and gas produced from our North Sea operated facilities

>1,100

bp retail sites in the UK, including those operated by our dealer partners

>3,000

ultra-fast and rapid *bp pulse* charge points across the UK

~200m

EV miles powered by *bp pulse* in the UK in 2023

Social investment

£16m

donated to help support the most vulnerable through the cost-of-living crisis

£2.49m

donated by bp's UK employees including matched funding from the bp Foundation

370

young people participated in our work experience programmes across our UK offices

>5,000

teachers used our free STEM education resources, potentially reaching around 380,000 students



Foreword

We have been a part of people's lives in the UK for more than 100 years. That's over a century of producing energy, stimulating economic growth, creating jobs and, through our vast supply chain, helping UK companies to prosper.

Throughout our long history, we have always prided ourselves on making a positive contribution to the country's economy and society. In 2023 we supported 81,000 jobs (page 12) nationally – equating to one in every 410 UK jobs. We also spent £5.3 billion with UK suppliers (page 8) and our contribution to national GDP was £17.1 billion (page 12).

A home-grown British company, bp is a household name. In fact nine out of 10 people in the UK now live within a 20-minute drive of a bp retail site. In 2023 we expanded our retail network, evolving what we offer at existing forecourts and building new hubs that are dedicated to supporting the transition to electric vehicles (EVs) – such as helping to launch one of the UK's largest public charging hubs at the NEC campus in Birmingham (page 22).



“What the UK, and the world, wants and needs from the energy system is changing – and so is bp.”

This year we will celebrate 60 years of our North Sea oil and gas operations, a proud history as one of the pioneers of this industry for the UK that helped build the energy infrastructure and skills that remain critical today.

We're continuing to invest in oil and gas, producing energy that people need today. Last year we started up the Seagull field – the first tieback to our existing ETAP facility in over 20 years (page 20). We are also looking for new ways to lower emissions associated with our operations. Since 2019 we have reduced scope 1 and 2 emissions associated with our North Sea operations by 33% and in 2023 we met our aim of deploying methane measurement across our major operated offshore oil and gas assets in the UK.

Those two businesses, oil and gas and retail, still represent the backbone of our UK business today. But what the UK, and the

world, wants and needs from the energy system is changing – and so is bp. We are continuing to invest in lower carbon and renewable energy here in the UK, expanding our EV charging network through *bp pulse* and progressing our plans to develop new offshore wind, solar, hydrogen and carbon capture projects. We are working with government and partners to make these plans a reality, while supporting our workforce, suppliers and communities across the UK to help support a transition in a way that is fair, protects jobs, boosts skills and helps grow the country's economy.

Projects like these go beyond investment in infrastructure; they also see us supporting skills development and job opportunities, such as on Teesside where 20 young people embarked on the bp-funded Clean Energy Technician Scholarship programme in 2023 (page 41).

Travelling around the UK and visiting the communities in which we operate is one of my favourite parts of the job. It is deeply important to me that we are a responsible British business. We know that the economy was challenging last year which is why we acted to help some of the most vulnerable people through our donations to charities. I was especially struck by the story of OnSide, a national charity that runs a network of youth centres across the UK. Through our donation we helped their youth centres, from Carlisle to Croydon, to continue providing a safe space and support for over 55,000 young people (page 47).

From helping to tackle food poverty to supporting initiatives to help boost biodiversity and increasing social mobility, we aim to make a difference.

The UK is our home and as this impact report shows, we are continuing to play our part in building a modern, diversified energy system that is safe and secure, supports the country's net zero ambitions and creates value for the economy, for customers, for communities and for our shareholders.

Louise Kingham CBE
Senior vice president, Europe and head of country, UK



bp's *impact*

on the UK economy in 2023

Written by Oxford Economics, this section of the report measures bp's contribution to the economy.



Overview of the economic impact analysis

Oxford Economics measures bp's contribution to the economy across three channels of impact: direct, indirect due to operational spending, and indirect due to capital expenditure.

bp's impact along those channels is assessed using these three metrics:

Gross value added:

This is the contribution of a firm to the UK's gross domestic product (GDP). It is also equivalent to the sum of a company's total compensation of employees, profits, and taxes on production.

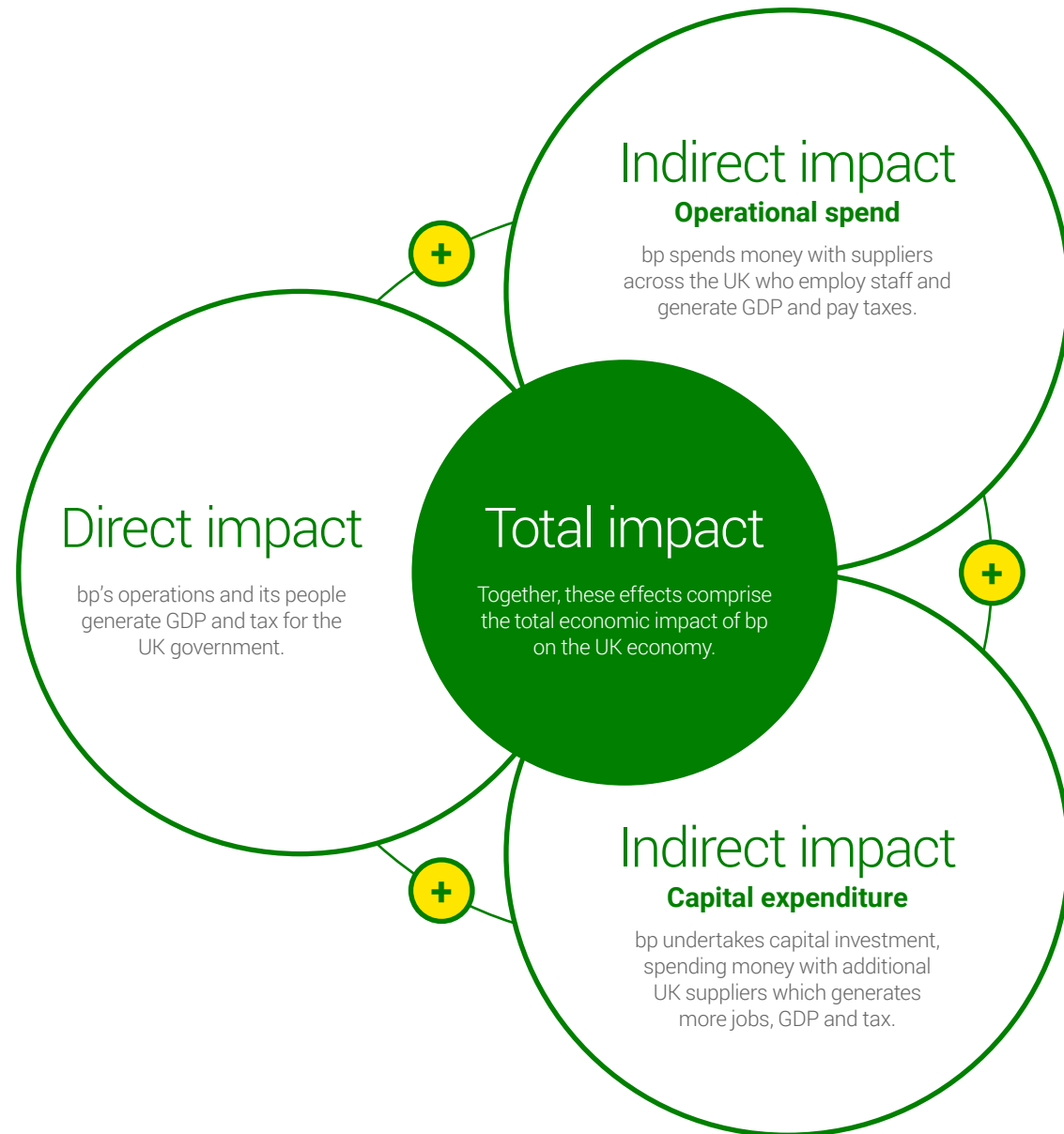
Employment:

This is measured on a headcount basis for comparison with Office for National Statistics' (ONS) employment data.

Taxes supported:

This is the value of taxes collected and paid to the UK government.

While most economic impact studies are estimated based only on spending that occurs within the country of interest, this report goes further by assessing the impact of bp's global procurement activity on the UK economy. This is important because bp's operations span multiple countries. Oxford Economics' bespoke Global Sustainability Model captures spending within countries and across their borders, facilitating estimates of the benefits to the UK from bp's global supply chain spending.





bp's operations directly benefit the UK economy

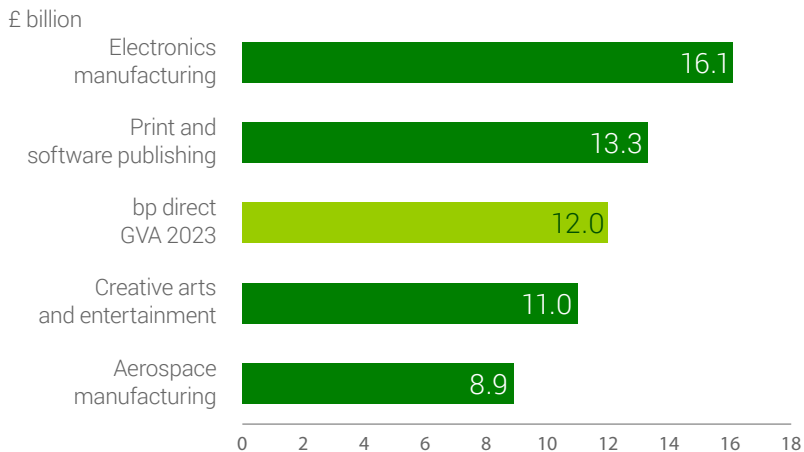
bp directly contributes significantly to the UK economy through its wide range of operations, which include producing hydrocarbons, running retail stations, developing lower carbon energy solutions, research and innovation, and managing office functions.

In 2023 bp directly:

- generated a **£12.0 billion** gross value added (GVA) contribution to UK GDP, or **£1 in every £220** of UK GDP.
- employed **16,049** people in the UK^a.
- paid and collected **£4.3 billion** in tax to the UK government^b.

bp's direct gross value added rivalled that of entire sectors of the economy. It was 9% larger than the creative arts and entertainment sector, and 35% larger than the entire aerospace manufacturing sector.

Figure 1. bp's direct gross value added contribution to UK GDP compared to other industries, 2023

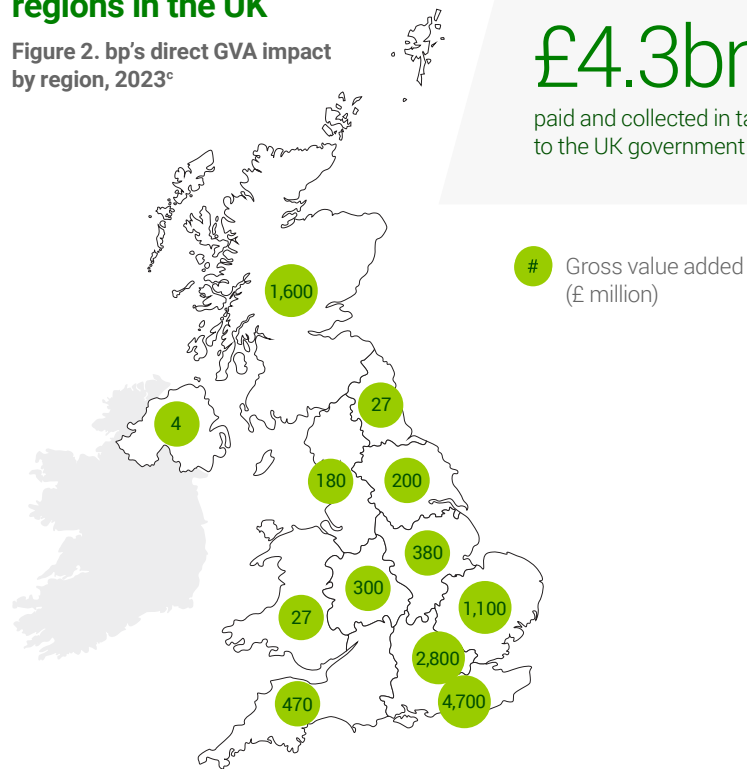


Source: bp, ONS

^a Employment headcount is of 31 December 2023.
^b This value is based on the calendar year of 2023.

bp's operations directly benefit all nations and regions in the UK

Figure 2. bp's direct GVA impact by region, 2023^c



Source: bp, Oxford Economics

^c As a region could not be assigned to 218 employees, the sum of the regional employment displayed above is 15,831, compared to the national total of 16,049. The GVA is mapped to regions using the employment distribution; as such the sum of GVA above is lower at £11.8 billion compared to £12 billion.

£12bn

gross value added contribution to UK GDP

16,049

people employed

£4.3bn

paid and collected in tax to the UK government





bp's spending with suppliers stimulates substantial economic activity

By buying goods and services from its suppliers, bp supports those suppliers as they generate their own gross value added, jobs and tax impacts.

bp spent **£5.3 billion** with UK suppliers in 2023. This procurement, combined with bp's spending elsewhere around the world, supported:

- **£5.1 billion** in gross value added contributions to UK GDP, or **£1 in every £520** of UK GDP.
- **65,000 jobs**, or **one in every 510** people in employment.

bp's spending consists of operational spending, as well as capital expenditure. Of the **£5.3 billion** bp spent with suppliers in the UK^a:

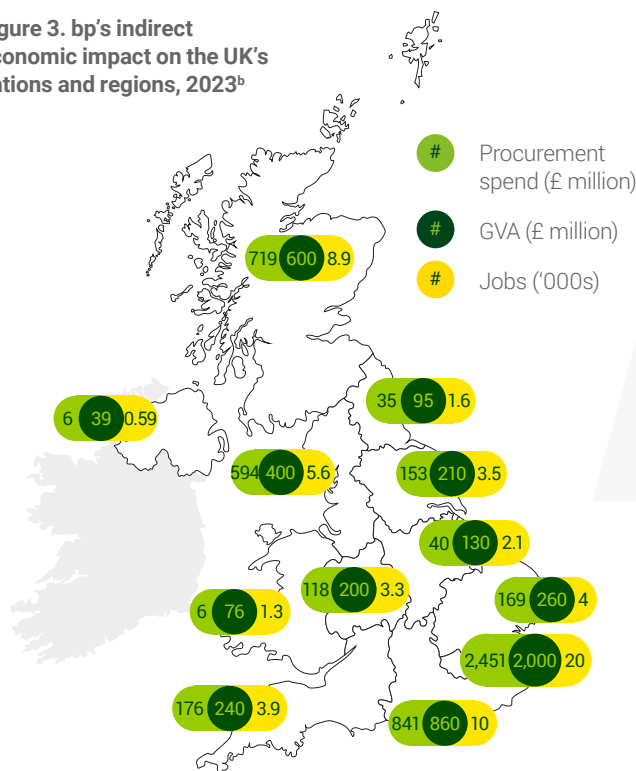
- **£4.3 billion** was with more than **2,600 suppliers** of operational goods and services, which relates to ongoing business operations.
- **£1 billion** was with more than **540 suppliers** of capital goods and services, which represents investment in bp's production facilities and other assets.

a Of bp's procurement, £4.7 billion (or 88% of the total) has a UK postcode associated with it. The remaining £615 million (or 12% of the total) does not have a UK postcode. UK spending which does not map to a UK postcode is still included in bp's procurement spending for modelling purposes but does not contribute towards the regional distribution in this map.

bp's spending benefits all nations and regions in the UK

Due to the diverse range of bp's operations, the company buys goods and services from businesses in all UK nations and regions, supporting economic activity across the country.

Figure 3. bp's indirect economic impact on the UK's nations and regions, 2023^b



b Totals may not sum due to rounding.

£5.1bn

gross value added contribution to UK GDP

65,000

jobs supported

£4.3bn

was spent with more than

2,600

suppliers of operational goods and services

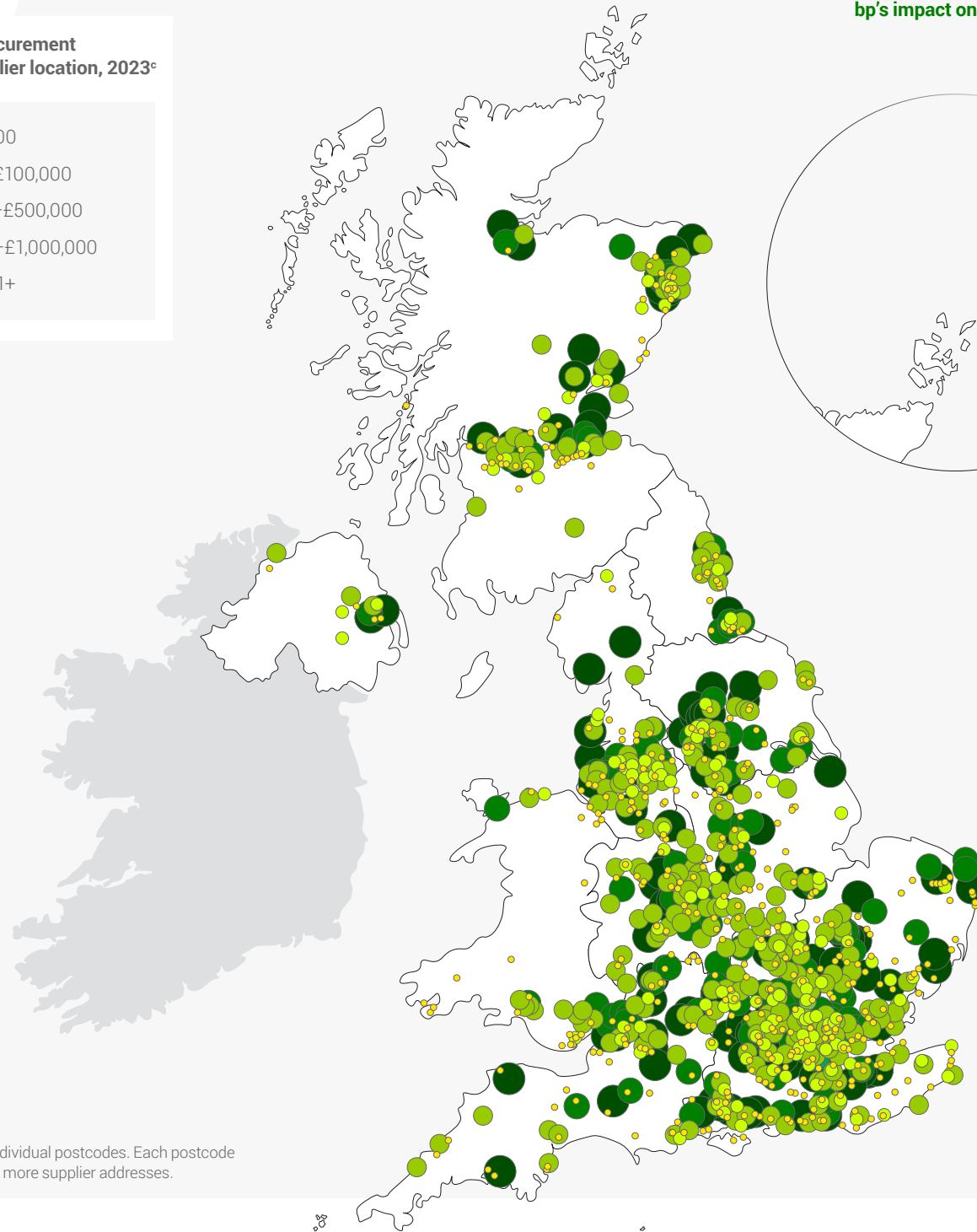
£1bn

was spent with more than

540

suppliers of capital goods and services

Figure 4. bp's procurement spending by supplier location, 2023^c



^c Circles represent individual postcodes. Each postcode may contain one or more supplier addresses.



Indirect economic impact

bp's supply chain spending benefited a wide range of businesses and sectors

Operational spending by sector

Businesses in the professional services industry – which includes activities like R&D, accounting, consulting, engineering services and marketing – benefited the most from bp's operational expenditure. In 2023 bp spent around **£1.1 billion** with firms in this sector, accounting for **25%** of bp's total operational spending in the UK.

Firms in the manufacturing sector were also substantial recipients of bp's operational spending in the UK, receiving **£800 million** in 2023 (**19%** of the total).

In addition, businesses in the transportation and storage industry – which includes activities like containerized shipping, fleet management and warehouse operations – received **£730 million** of bp's operational spending (**17%** of the total).

£1.1bn

spent with firms and businesses in the professional services industry

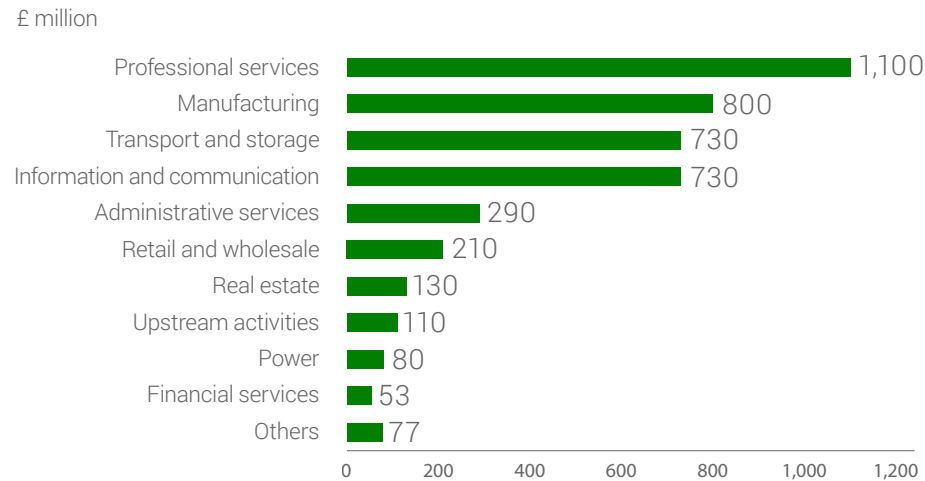
£800m

of operational spending to firms in the manufacturing sector

£730m

of operational spending to firms in the transportation and storage industry

Figure 5. Top ten UK sectors that received the largest amount of bp's operational spending, 2023



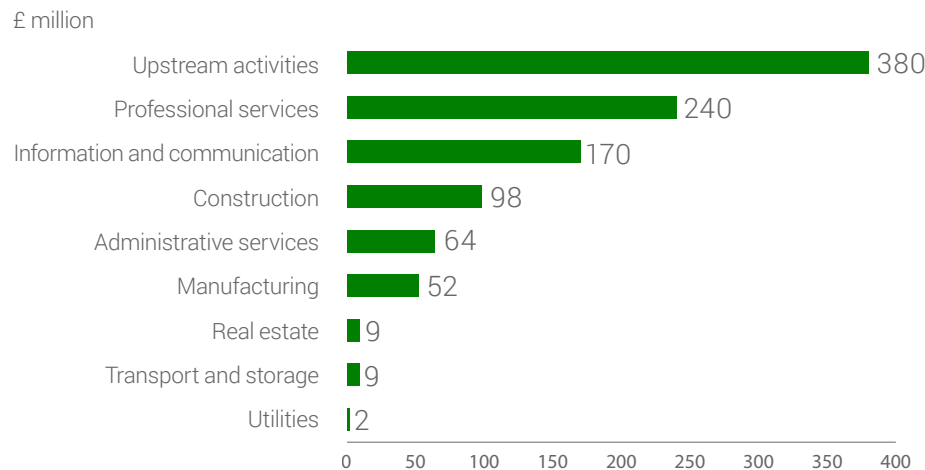
Source: Oxford Economics, bp

Capital expenditure by sector

bp also supports a wide range of businesses through its capital expenditure:

- Providers of upstream services, which include exploration, drilling and production, received **£380 million (37%** of bp's total capital spending in the UK).
- Suppliers in the professional services industry, including engineering firms, received bp capital expenditure worth **£240 million (24%** of the total).
- Information technology and communications businesses were also significant beneficiaries of bp's capital expenditure, receiving **£170 million (16%** of the total).

Figure 6. bp's capital expenditure by sector, 2023^a



Source: Oxford Economics, bp

a Totals may not sum due to rounding.

How bp's spending with suppliers around the world benefits the UK

bp not only supports the UK economy by spending money with UK businesses and suppliers but it also contributes to the UK's global position by supporting suppliers around the world. Some of the money bp spends with suppliers in other countries flows back to the UK through global supply chains^b.

Through bp's spending with international suppliers, we estimate that in 2023:

- Some **£320 million** of bp's total gross value added contribution to UK GDP, as presented earlier in this report, was stimulated by these international spillover benefits.
- In addition, bp's spending abroad supported an estimated **4,100 jobs** in the UK.
- Finally, of the tax receipts bp supported in the UK, **£69 million** was stimulated via bp's international supply chain spending.

b The indirect GVA, jobs, and taxes supported by the international spillovers are already included within the indirect results presented earlier in this report.



Total economic impact

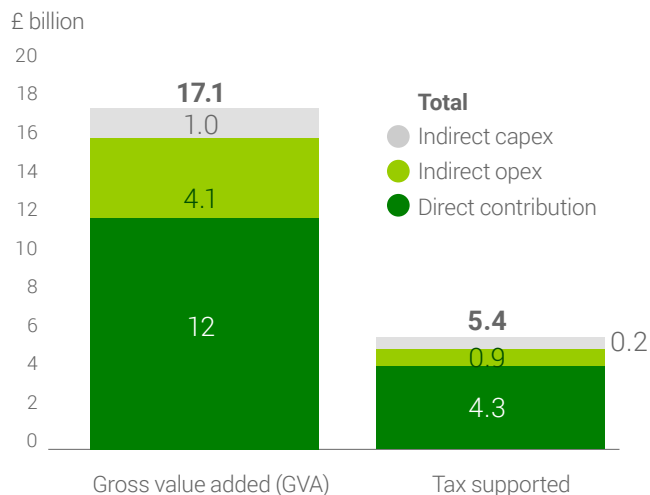
bp's total UK economic impact

Considering the sum of bp's direct impact and supply chain impact, bp's total impact on the UK economy is sizeable.

Oxford Economics estimates that in 2023 bp supported:

- **£17.1 billion** in gross value added contributions to UK GDP, or **£1 in every £160** of UK GDP.
- **81,000 jobs**.
- **£5.4 billion** in total taxes.

Figure 7. Gross value added and tax contributed by bp's operations, 2023



Source: Oxford Economics, bp

£17.1bn

in gross value added contributions to UK GDP – equivalent to

0.64%

of **national GDP**

81,000

jobs supported, which is

0.24%

of **national employment**

The total gross value added supported by bp was equivalent to **0.64% of all GDP** created in the UK in 2023. This GVA contribution was **the same GVA contribution as Aberdeen or Cambridge** and **24% more than Brighton and Hove**.

bp's total regional impact

bp's combined direct and indirect impact (including the extra boost from global spending) occurs in every UK region and nation. bp supported the most gross value added in the South East (**£5.6 billion** in GVA, as well as **16,000 jobs**); the most employment was supported in London (**24,000 jobs**, alongside **£4.8 billion** in GVA). A large amount of economic activity was also supported in Scotland (**£2.2 billion** in GVA and **11,000 jobs**). **£4.6 billion** in GVA, as well as **29,500 jobs** were supported across the rest of the UK.

Figure 8. GVA and employment bp supported directly and indirectly along the supply chain by region, 2023

£5.6bn

in GVA, as well as **16,000 jobs** in the **South East**

£4.8bn

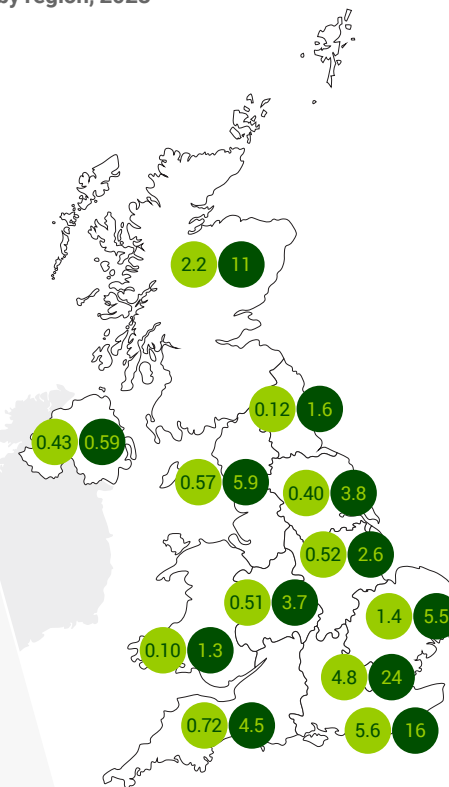
in GVA, as well as **24,000 jobs** in **London**

£2.2bn

in GVA, as well as **11,000 jobs** in **Scotland**

£4.6bn

in GVA, as well as **29,500 jobs** across **the rest of the UK**



GVA bp supported directly and indirectly (£ billion)

Employment bp supported directly and indirectly (jobs '000s)

bp's impact on the local economy

bp's impact is particularly important in several regions.

Nationally, bp supported **0.64%** of GDP, but the share of economic activity bp supported is higher than that in some regions. For example, bp's direct and supply chain activity supported **1.5%** of all gross value added in the South East, followed by **1.3%** in Scotland, and **0.82%** in London.

In a similar fashion, bp supported **0.24%** of employment nationally, but a higher percentage in some regions. bp supported an estimated **0.39%** of all employment in Scotland, followed by **0.36%** of employment in London, and **0.33%** in the South East.

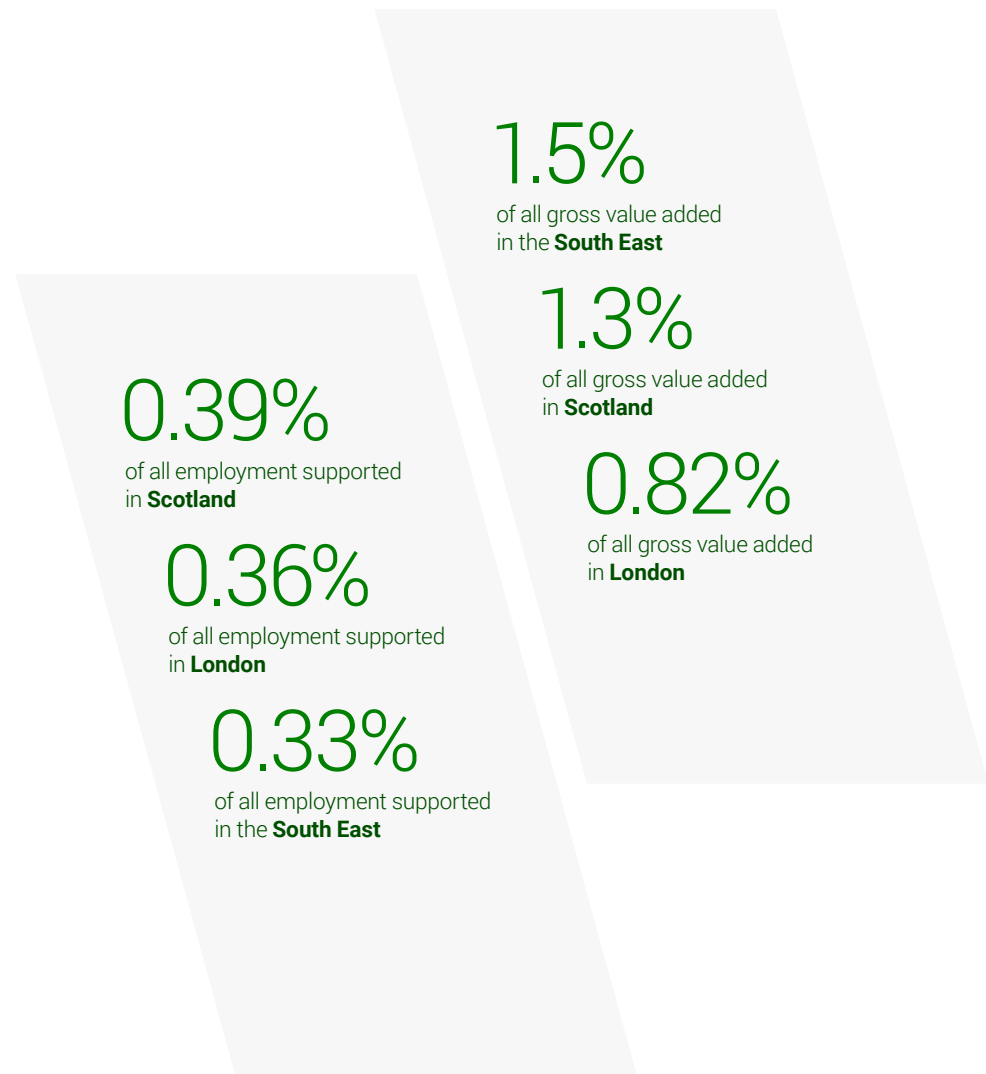
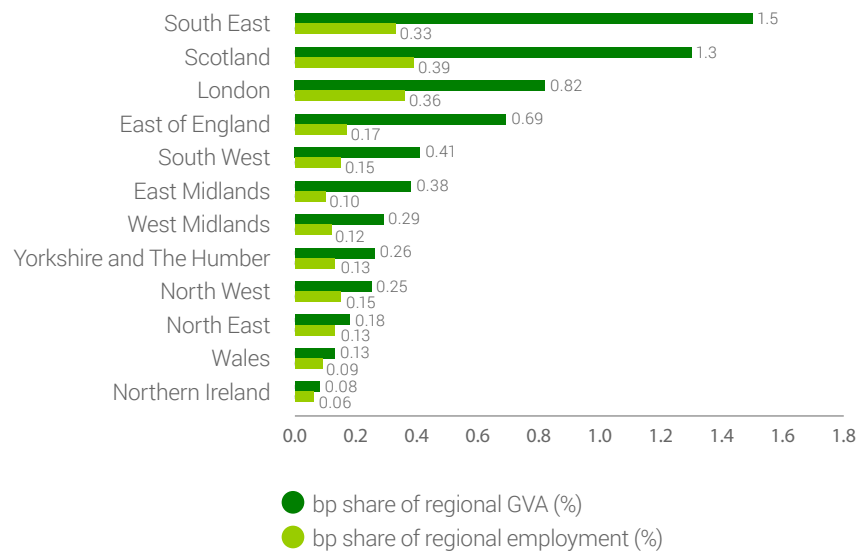


Figure 9. bp's total share of gross value added and employment supported by region, 2023



Source: Oxford Economics, bp



bp is an important collector and payer of taxes to the UK government

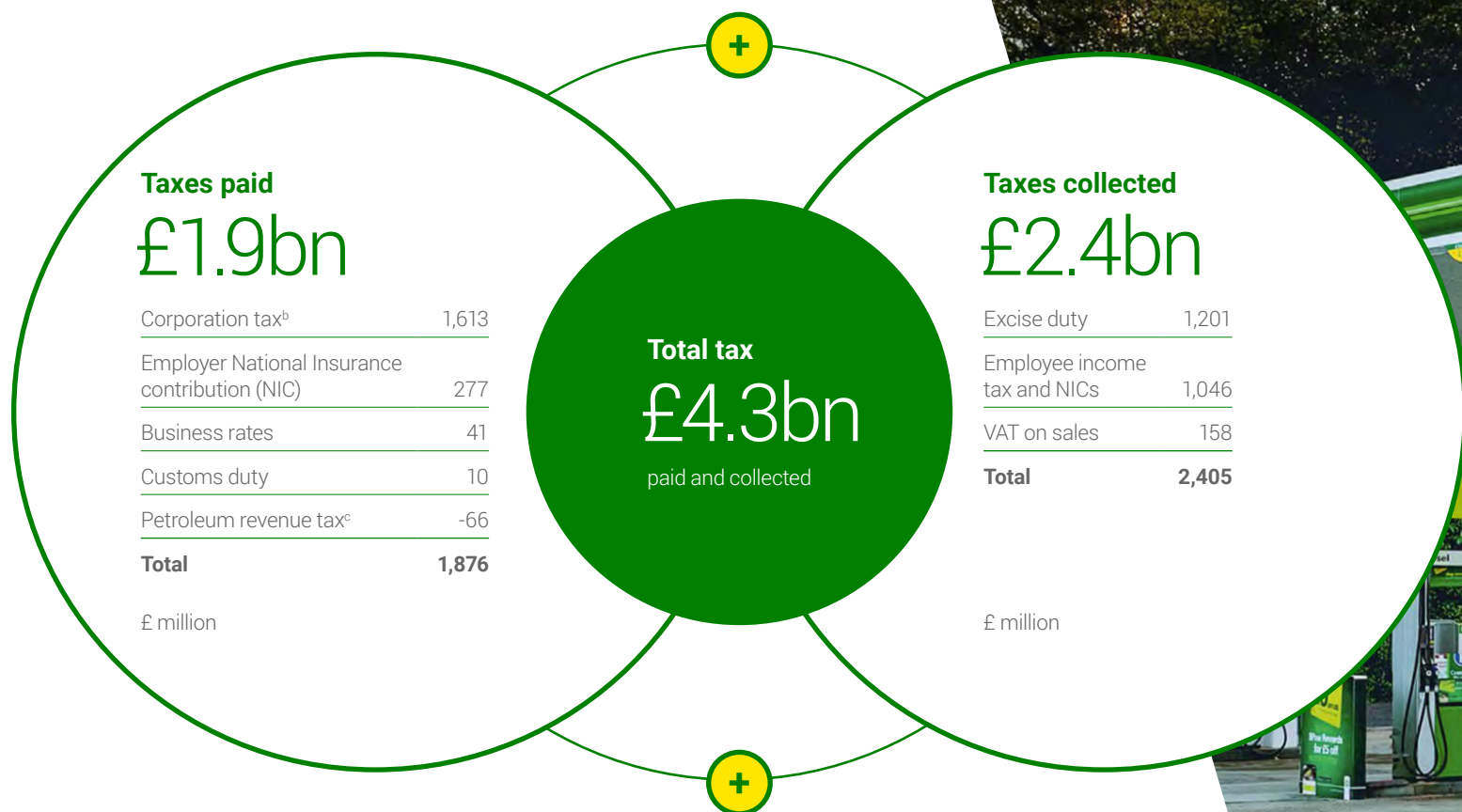
Through its operations, bp also collects and pays a substantial amount of tax revenue to the UK government.

bp paid and collected **£4.3 billion** in tax to the UK government in 2023. This includes **£1.9 billion** in paid tax, of which **£626 million** was Energy Profits Levy. It also includes **£2.4 billion** in collected tax.

Of the total **£821 billion** UK government tax receipts in 2023, the tax bp paid and collected was **0.5%** of total UK government receipts. This was equivalent to **£1 in every £190** in HMRC receipts^a.

The company also stimulated tax contributions along the supply chain, estimated to be worth **£1.1 billion** in 2023.

Figure 10. bp's taxes paid and collected in 2023



a HMRC, "HMRC tax receipts and National Insurance contributions for the UK", data downloaded March 2024. The denominator was for the year ended December 2023.

b Corporation tax paid includes £78 million Withholding tax and £626 million Energy Profits Levy. Totals do not sum due to rounding.

c With respect to production taxes, we received a net refund of petroleum revenue tax paid in prior years resulting from the carry back of tax losses in accordance with the law.





Farnham SF Connect, Surrey, UK



Backing Britain

in 2023





Investing in the UK energy system

The UK has a plan to boost long-term energy security and cut emissions and, at bp, we're hard at work on the challenge.

While today we're mostly in oil and gas, we increased the proportion of our global annual investment that went into our lower carbon and other transition businesses from around 3% in 2019 to around 23% in 2023. In 2022 the proportion was around 30%.

In the UK we plan to continue to invest in North Sea oil and gas, as well as on solutions like offshore wind, EV charging, hydrogen and carbon capture. These plans go beyond investment in infrastructure – they also see us supporting the economy, skills development and job opportunities in the communities where we operate.





bp in the UK

While North Sea oil and gas and our nationwide network of bp-branded retail forecourts are our most established UK businesses today, bp is changing from an international oil company to an integrated energy company. In 2022 bp announced plans that could see us invest up to £18 billion in the UK's energy system by the end of 2030 – expanding our *bp pulse* EV charging network, and working on plans to develop new offshore wind, solar, hydrogen and carbon capture projects – while continuing to invest in established sectors like oil and gas and retail.

We're planning to invest up to

£18bn

in the **UK's energy system** by the end of 2030

Current activity and project map^a



Oil and gas hubs

Operated by bp



Oil and gas hubs

Operated by others



Wind

In development



Offices and research centres

Sunbury, Canary Wharf, St James's Square, Hull, Pangbourne, Milton Keynes, Aberdeen

→ bp.com/uk/whereweoperate



bp pulse hubs^b

Hubs open as at March 2024



bp pulse charging sites

With ultra-fast^c and rapid^d charge points

→ network.bppulse.co.uk/live-map



Air bp

Some of the more than 70 locations where Air bp is present

→ customers.airbp.com/where-to-find



UK solar

Selected Lightsource bp developed projects

→ lightsourcebp.com/uk/projects



Fuel terminals

Isle of Grain, Hamble, Hemel Hempstead



Hydrogen

In development



Power and carbon capture and storage (CCS)

In development



Power and carbon capture and storage (CCS)

In development/non-operated



Retail sites

Includes bp-operated and dealer-operated sites

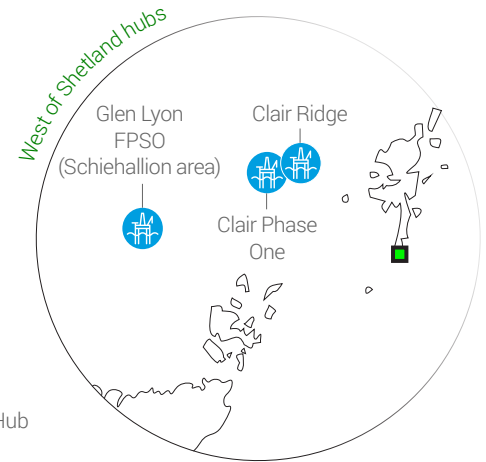
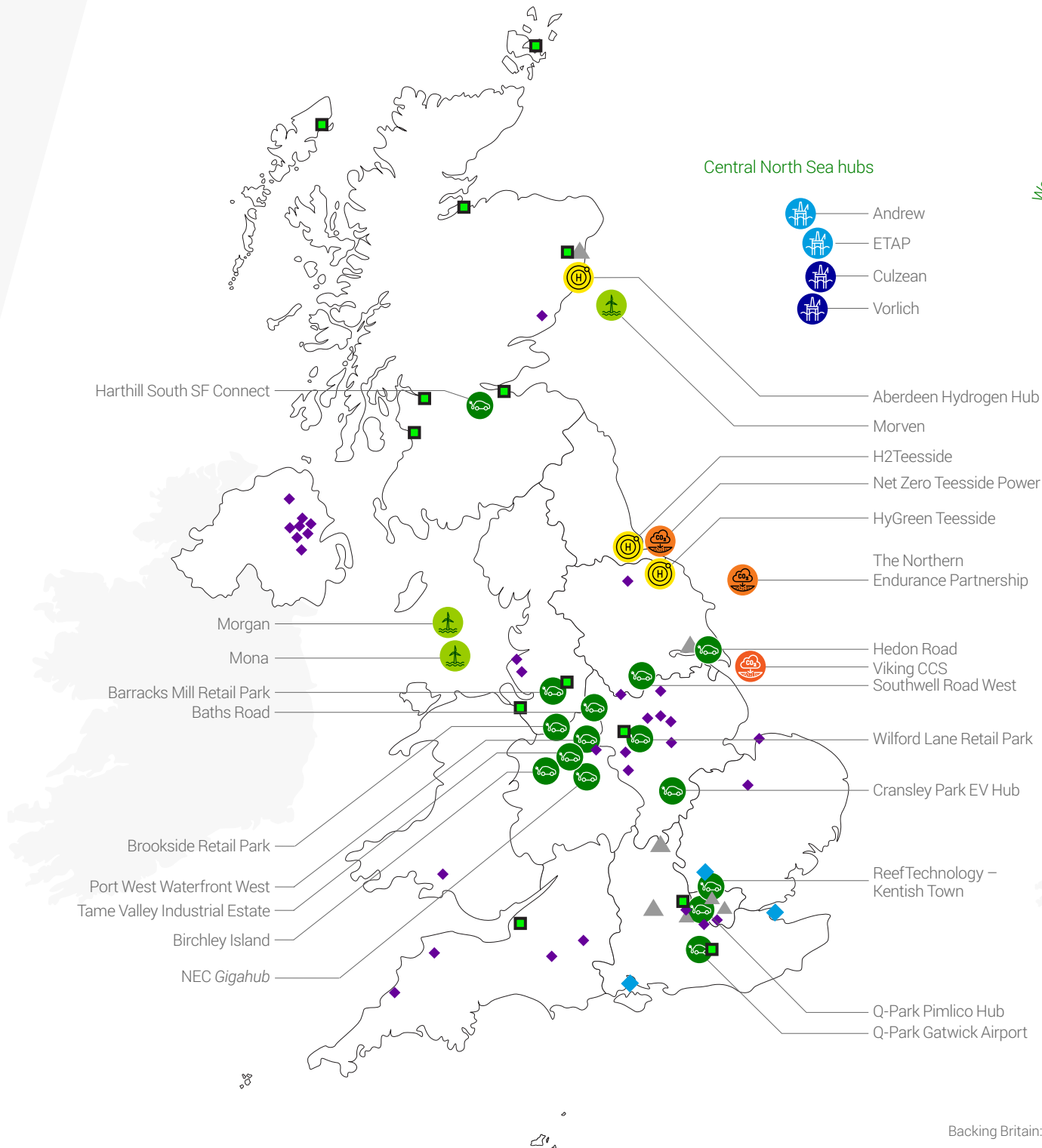
→ bp.com/stationfinder

^a Major energy projects are complex and typically have long design and development timeframes. Many of our UK lower carbon and renewable projects are in the early design and development phases and remain subject to requirements like planning consent, contracts and licences, and ultimately final investment decision by bp and, where applicable, partners. Map current as of June 2024.

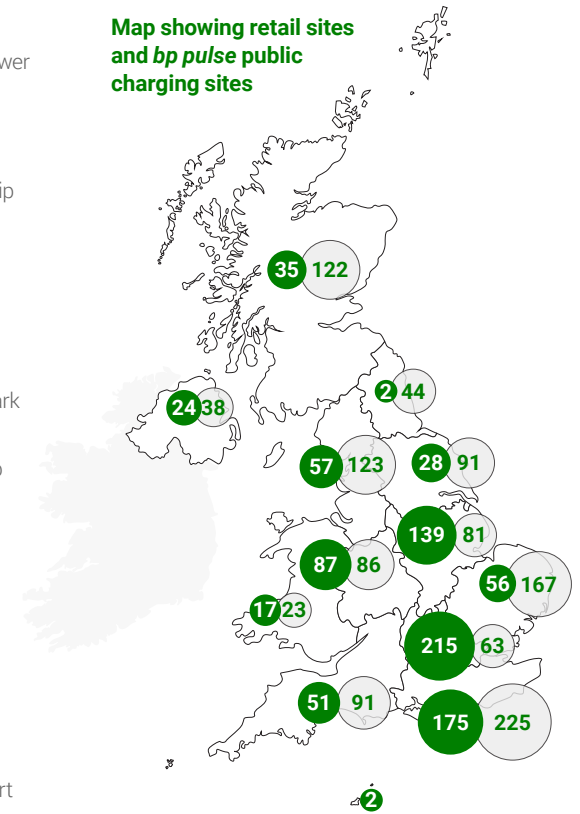
^b A site qualifies as a hub when it has at least six or more ultra-fast charging bays.

^c Ultra-fast charging: Electric vehicle charging of greater than or equal to 150kW.

^d Rapid charging: Rapid charging includes electric vehicle charging of greater or equal to 50kW and less than 150kW.



Map showing retail sites and bp pulse public charging sites





Helping to produce energy the world needs today and investing for tomorrow

We have been operating in the North Sea for 60 years, providing a reliable source of energy while helping develop the skills, infrastructure and supply chain that can support the energy transition.

As the world transitions to lower carbon and renewable energy sources, oil and gas will still be needed.

That's why we are continuing to invest in our North Sea portfolio to meet today's energy needs, producing energy that can be delivered safely and responsibly. We will do this while looking for new ways to lower emissions associated with our operations.

Since 2019 we have reduced scope 1 and 2 emissions associated with our North Sea operations by 33%, and in 2023 we met our aim for deploying methane measurement across our operated offshore oil and gas assets in the UK.

"New systems and technology solutions were rolled out across our offshore oil and gas facilities to enhance how we monitor and measure methane emissions," says **bp atmospheric specialist, Mhairi Jupp**. "From using drones to retrofitting monitoring equipment in the challenging environment of the North Sea, the team used cutting-edge solutions to meet this ambitious aim. We are thrilled with what we've achieved, which will help us make impactful, real-time decisions across these assets."

In 2023:

- We produced 59 million barrels of oil and gas from our operated facilities in the North Sea.
- We successfully started production from the Seagull oil and gas field, boosting energy supplies, supporting the supply chain and jobs, and underpinning continued production from the Eastern Trough Area Project (ETAP) – an offshore facility that's been operating for 25 years.
- We secured regulatory approval for the Murlach field, an additional future subsea tieback to ETAP.
- We commenced construction activities in respect of a new gas pipeline on Shetland. Once commissioned, the pipeline will connect existing gas export systems, helping support UK security of gas supply and establishing an additional export route for West of Shetland gas.
- We completed our first 4D seismic survey of the Clair field, placing 30,000 seismic receivers across 148km² of seabed over 80 days, to inform further development of UK oil and gas around the field's existing facilities.



Eastern Trough Area Project (ETAP)



Seagull: New energy from existing infrastructure

In 2023 Nicola Stevenson, project manager, and Teresa Bachelet, commissioning manager, were part of the team working on our latest development in the North Sea – Seagull. The two engineers helped us access new resources under the sea and breathe new life into an existing oil and gas facility.



“ Seagull was an incredibly complex and ambitious project, connecting new wells to the 25-year-old ETAP hub located 140 miles east of Aberdeen. ”

Teresa Bachelet
Commissioning manager



Giving customers on the move what they want – fuels, food and EV charging

Across the whole of the UK, we have been supporting people and businesses on the move for over 100 years. With shopping habits and the way people travel changing, we are working to transform forecourt convenience. That means new ways to serve our customers with everything from fuels to more electric vehicle (EV) charging, high-quality food and drink and a great customer experience.

Around 90% of the UK population live within a 20-minute drive of a bp forecourt. There are over 1,100 bp retail sites in the UK – over 300 of these are owned and operated directly by bp and the rest by our dealer partners. We also operate over 3,000 ultra-fast^a and rapid^b charge points across the UK with some located on our forecourts, and others at EV charging hub sites. Our retail network is a key part of how bp is backing Britain, serving local communities and supporting customers.

bp is proud to be a real living wage employer, with almost 6,700 employees in our company-owned retail stores and our Milton Keynes support centre. Together they serve millions of customers each week.

In 2023 we continued to develop our retail network across the country, providing more high-quality food and drink selections, through our partnership with M&S Food, as well as piloting new fresh, made-to-order menu options at selected *wildbean cafes*.

We are not only evolving what we offer at existing forecourts but we're also building hubs that are dedicated to supporting the transition to EVs – providing the fast charging and customer experience drivers need.

bp pulse, our EV charging business, announced plans in 2022 to invest up to £1 billion over 10 years to expand the reach and reliability of our public charging network. By 2030 *bp pulse* plans to have built hundreds of on-the-go EV charging hubs, connecting more regions with more rapid and ultra-fast chargers on major transport routes.

As well as serving consumers at our retail sites, we also have a strong B2B fleet business. We work with many large logistics companies and we're also supporting businesses to decarbonize by providing energy solutions like biofuels and EV charging fleet solutions to some of the UK's largest businesses, including the country's biggest fleet operator Royal Mail. In 2023 we also gave fleet customers greater access to over 12,000 public EV charge points available through bp's *Fuel & Charge card*.

a Ultra-fast charging: Electric vehicle charging of greater than or equal to 150kW.
b Rapid charging: Rapid charging includes electric vehicle charging of greater or equal to 50kW and less than 150kW.
c As at time of print.

In 2023:

- In September *bp pulse*, The EV Network and NEC Group launched the UK's largest public charging hub^c at the NEC campus in Birmingham, UK. The new *Gigahub* at the NEC has capacity to charge up to 180 EVs simultaneously.
- We launched a new digital payments app for fleets – *bp InTruck Connect* – in collaboration with Mercedes-Benz Trucks UK, to simplify the refuelling process for fleet drivers and managers.
- We opened two proof of concept *wildbean cafes* with a new fresh, made-to-order food for now offer at our Byron and Holborough stores.
- We became the first energy company to partner with the Retail Trust, providing bp's colleagues working at company-owned retail sites in the UK with access to a range of personalized wellbeing resources, including a virtual GP, counselling services and support.

9

new EV charging hubs opened across the UK

40

charge points went live across Northern Ireland at Henderson retail sites, with plans to install up to 200 by 2025

3

new *Gigahubs* launched, each with at least 12 ultra-fast charging bays including *bp pulse*'s most powerful charging hub in London at Q-Park Pimlico

~200m

EV miles were powered by *bp pulse*



EV charging hub at NEC Birmingham, UK

Launching our new UK retail stores

In 2023 bp opened two new company-owned retail stores in Norton-on-Derwent, North Yorkshire, and Faygate in West Sussex, creating around 50 local jobs and giving customers access to premium fuels, high-quality food and drink and EV charging in one place.

“Working alongside our wonderful team to open our store in Norton-on-Derwent – the first new retail site in the UK for three years – was a real career highlight for me,” says **Matt Robinson, a regional manager** who was part of the team working with store members to open the Norton-on-Derwent location.

“I’m proud of how our entire store operations, construction, and support teams came together to deliver this fantastic new destination for our customers. The finished store is a real move forward in our ongoing mission to bring a new forecourt experience to more local communities.”

“

To open our store in Norton-on-Derwent – the first new retail site in the UK for three years – was a real career highlight for me. ”

Matt Robinson
Regional manager





Developing hydrogen hubs in the UK

Hydrogen is a key part of our ambition to be a net zero company by 2050 or sooner and help the world get to net zero.

Hydrogen will be a vital energy choice for hard-to-abate industries, such as iron, steel and chemical production, and for heavy transport including trucks, ships and aircraft.

The UK government has set ambitious targets for hydrogen production, and we are focused on designing and developing hydrogen hubs to help the UK meet its national targets.

In Teesside, our hydrogen projects, which are subject to final investment decisions, aim to support the transformation of the region and supply up to 1.5GW of hydrogen capacity – over 15% of the UK government’s target for low carbon hydrogen production by 2030.

In Scotland, we are helping the city that pioneered UK oil and gas to pioneer its net zero future through a joint venture with Aberdeen City Council which intends to develop the Aberdeen Hydrogen Hub. The project, which is subject to a final investment decision, is a proposed scalable green hydrogen production, storage and distribution facility powered by renewable energy.

Unlocking the power of hydrogen for UK industry

The Tees Valley industrial cluster is one of the most concentrated pockets of industry in the UK, which makes it the perfect location for using hydrogen to support lower carbon industry.

Through our projects, H2Teesside – which aims to be one of the biggest blue hydrogen production facilities in the UK – and HyGreen Teesside, a proposed green hydrogen project, we could help deliver economic growth in Teesside and produce the lower carbon hydrogen that the UK needs.

“It marks an exciting year for everyone involved in this landmark project and its potential to accelerate progress in creating blue hydrogen.”

Alistair Cocking
Procurement manager

For H2Teesside, we signed the first licensing and engineering agreement with Johnson Matthey to use its innovative LCH™ technology. Deploying such technology could help us to capture up to 99% of CO₂ produced during hydrogen generation.

“Bringing in some of the first commercial partners is the culmination of years of work, dedicated to helping unlock the potential of hydrogen in Teesside. It marks an exciting year for everyone involved in this landmark project and its potential to accelerate progress in creating blue hydrogen.” says **Alistair Cocking, a procurement manager** helping bp’s plans for hydrogen on Teesside to life.

We are also helping to equip young Teessiders with the skills required to access jobs in lower carbon industries by working with schools, colleges and local education institutions. These span from early-stage STEM resources for local primary schools to advanced skills development through the Teesside Clean Energy Technician Scholarship programme, developed in partnership with Redcar & Cleveland College.

In 2023:

- We completed public consultations for HyGreen Teesside, enabling the local community to have their say on our project plans. Consultations for H2Teesside started and have continued into 2024. The feedback we receive as part of these consultations will help develop our designs for both projects.
- For both hydrogen projects, we continue to engage actively with the local supply chain and potential customers for hydrogen, while working with the UK government to make progress towards commercial operations.

The former steelworks site on Teesworks, Teesside

Aberdeen Hydrogen Hub

In March 2022 Aberdeen City Council and bp formed a joint venture called bp Aberdeen Hydrogen Energy Limited (bpAHEL). The partnership intends to enhance the hydrogen economy in Aberdeen city and the north-east of Scotland by building the Aberdeen Hydrogen Hub, a green hydrogen production, storage and distribution facility, powered by a new solar plant and additional renewable energy sources.

In 2023:

- The Aberdeen Hydrogen Hub received planning permission for the first phase of the project. The project is subject to a final investment decision but has the potential to deliver over 800 kilograms of green hydrogen per day, enough to fuel the equivalent of 25 buses.



River Dee, Aberdeen, UK





A lower carbon future for Teesside and Humberside industrial heartlands

Carbon capture and storage (CCS) is a vital element of the UK's net zero strategy, and the UK government has set a target to capture 20-30 million tonnes of CO₂ per year by 2030. It has also committed to fully decarbonizing its power system by 2035.

In support of those goals, we want to deliver a vibrant domestic CCS economy in the north-east of England by building innovative, large-scale CCS projects, including both gas-fired power and hydrogen facilities with carbon capture technology. We believe 'on-demand' low carbon power can play a vital role in that process, by helping to enable greater deployment of renewable energy for periods when the wind isn't blowing and the sun isn't shining.

Spanning both Teesside and Humber, we provide operating services to the Northern Endurance Partnership (NEP) project, which aims to develop the common infrastructure needed to transport CO₂ from a range of emitters across the Humber and Teesside to secure offshore storage in the southern North Sea. Humber and Teesside together contribute almost 50% of carbon emissions from all UK industrial clusters. The NEP infrastructure would help support a range of carbon-intensive businesses across the regions to decarbonize, protecting thousands of jobs, and would initially serve the Teesside-based carbon capture projects selected by the government as part of the cluster sequencing process for CCS.

On Teesside, we are the operator of Net Zero Teesside (NZT) Power, which aims to be one of the world's first commercial scale gas-fired power stations with carbon capture. Once operational, NZT Power would play a significant role in the UK's future energy mix, enabling greater deployment of renewable energy by providing flexible, dispatchable low carbon electricity generation.

One of our hydrogen projects in the region, H2Teesside, would also utilize the NEP infrastructure. It aims to be one of the UK's largest blue hydrogen production facilities, and is targeting 1.2GW of hydrogen production by 2030.

In addition to NEP, in the Humber region we are also working with project-lead Harbour Energy to develop the Viking CCS transportation and storage project.

Northern Endurance Partnership

The Northern Endurance Partnership (NEP) aims to deliver the onshore and offshore infrastructure needed to capture carbon from a range of emitters across Teesside and the Humber and transport CO₂ to offshore storage in the Endurance store, a North Sea aquifer. NEP anticipates to store up to 23mtpa of CO₂ on average at the project's peak in 2035.

In March 2024 NZT Power and NEP announced the selection of contractors for engineering, procurement and construction contracts, which have a combined value of around £4 billion. The selection of these nine leading specialist contractors, across eight contract packages, is a major milestone for these projects, which would contribute to the UK's journey towards net zero emissions by 2050.^a

Ben Tze Kek is a business development manager, and part of the team spearheading our projects throughout the region: "We are trying to help decarbonize heavy industry with lower carbon solutions in hydrogen and CCS, at a scale and complexity that has never been done before. That is a formidable challenge, but the rewards would be equally beneficial for Teesside and the UK at large, by helping to decarbonize the UK's power system and creating one of the world's first low carbon industrial clusters, which could allow the UK to export this expertise globally."

“ We are trying to help decarbonize heavy industry with lower carbon solutions in hydrogen and CCS, at a scale and complexity that has never been done before. ”

Ben Tze Kek
Business development manager

^a The awarding of contracts is subject to the receipt of relevant regulatory clearances and positive final investment decisions (FID) by the projects and UK government, planned for September 2024.

Viking

We are working with Harbour Energy to develop the Viking CCS transportation and storage project. Located close to the heavily industrialized Humber region, it has the potential to meet up to one third of the UK government's target to capture and store around 30 million tonnes of CO₂ a year by 2030.

Viking could also play a key role in capturing carbon for businesses and industries that do not have direct access to CO₂ storage. Planning is underway for Viking to be able to receive liquefied CO₂ arriving by ship from around the UK and globally. Expanding access to Viking's facilities would attract greater inward investment and support local jobs.

In 2023:

- We acquired a share in the Viking project with Harbour Energy, bringing together two of the most experienced operators in the North Sea for a transformational CCS project.
- The UK government recognized Viking in Track 2 of its CCS cluster sequencing process which will establish two new CCS projects, contributing to its national ambition to capture and store 20-30 megatonnes per year of CO₂ across the economy by 2030.
- Alongside the UK's largest port operator Associated British Ports (ABP) and London-based recycling and waste management company Cory Group (Cory), Viking announced an exclusive commercial relationship to work together on the transport and storage of shipped CO₂ emissions from Cory's Energy from Waste (EfW) facilities in London.



Surveying at Teesworks site, Teesside, UK

Net Zero Teesside Power

Located in Teesside, NZT Power could generate up to 860 megawatts (MW) of flexible, dispatchable low carbon power equivalent to the electricity requirements of around 1.3 million UK homes. Up to two million tonnes of CO₂ per year could be captured at the plant, and then transported and securely stored by the NEP in subsea storage sites in the southern North Sea.

During construction, NZT Power could create more than 3,000 jobs. Once complete, around 1,000 people could be employed annually to operate the power station, until 2050, adding up to £300 million to the UK economy each year.



In 2023:

- NZT Power was chosen to proceed to the final selection stage for UK government funding.
- Preparation work on the land for NZT Power has started following the signing of an option-for-lease agreement between NZT Power partners, bp and Equinor, and the landowners Teesworks.



Harnessing the power of UK offshore wind

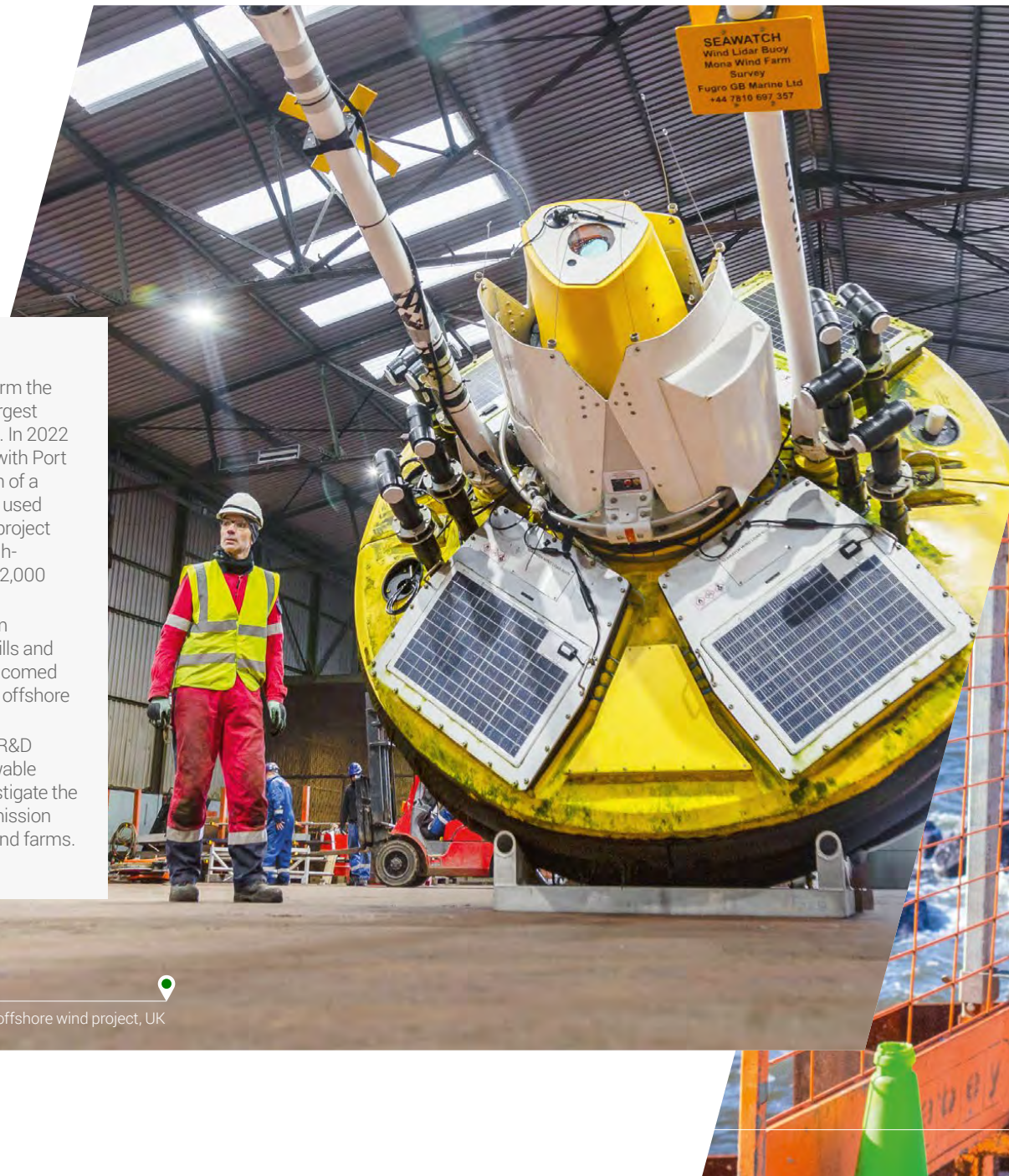
Renewable energy from wind will be a vital part of the UK's energy mix, as it transitions to net zero with the UK government setting a target of 50GW of offshore wind power by 2030. That is why in 2023, bp along with its partner EnBW, progressed the planning of three offshore wind farms.

Offshore wind farms, Morgan and Mona, are planned to harness the winds of the Irish Sea off the north-west coast of England and Wales, while Morven will be located in the North Sea off the Aberdeenshire coast.^a These have a combined potential generating capacity of 5.9GW, which we estimate is sufficient to power the equivalent of around six million households.

The planned wind farms would not only generate renewable energy for the UK – we hope they can help build a new industry. We are working on innovative skills initiatives, local to our projects, and providing investment to offshore wind – supporting suppliers, communities, sustainability, education and infrastructure.

In 2023:

- Construction began to transform the Port of Leith into Scotland's largest offshore wind renewables hub. In 2022 we had signed an agreement with Port of Leith to support the creation of a marshalling port that could be used for the Morven offshore wind project – expected to create 1,000 high-skilled, direct jobs and around 2,000 indirect jobs.
- Two groups of secondees from X-Academy, a joint industry skills and training organization, were welcomed into bp to work on our Morven offshore wind project.
- We joined forces with leading R&D experts at the Offshore Renewable Energy (ORE) Catapult to investigate the potential use of zero or low-emission support vessels at offshore wind farms.



LiDAR buoy, Mona offshore wind project, UK

^a Depending on necessary permits and contracts and subject to final investment decision.



Port of Leith, Edinburgh, Scotland

“ Over the year, our offshore surveys for Morgan, Mona and Morven covered about 2,350 square kilometres of the seafloor. ”

Craig Allinson
Principal surveyor

Revealing the UK’s seafloor to support future wind projects

To effectively harness the power of the UK’s offshore winds, we need to gather a thorough understanding of the seafloor. We are employing the latest in surveying technology at scale to efficiently create our clearest picture yet of these sites. 2023 saw us carry out our biggest integrated offshore site investigation campaign to date.

“Over 200 people offshore on seven vessels, plus another five uncrewed vessels worked a total of more than 550 working days” says the **principal surveyor Craig Allinson**, who was part of the team leading these offshore surveys in the Irish and North Sea. “Over the year, our offshore surveys for Morgan, Mona and Morven covered about 2,350 square kilometres of the seafloor. By taking an integrated approach we could combine various elements onto single vessels, which reduced the number of mobilizations needed. It also ensured that a consistent approach was applied to the planning and management of activities, which increased the project’s efficiency. I am deeply proud to have been part of such a feat and am excited for the value this new data adds to the project, and what integrated survey planning can deliver in the future.”



Accelerating the UK's solar sector

Launched in 2010 Lightsource bp^a is one of the UK's leading solar developers, working to generate sustainable and responsible solar power. Its global headquarters in the UK act as a central hub for operations across 19 countries, employing over 450 people in the UK.

Lightsource bp is supporting the UK to help meet the national target of developing 70GW of solar by 2035.

Throughout 2023 Lightsource bp accelerated the development of a multi-gigawatt UK pipeline of solar projects with more than 10 individual projects across the country – including more energy storage and grid connections.

The Tiln battery project in Nottinghamshire is one of these cutting-edge projects. As an essential part of the energy transition, Lightsource bp is building battery storage to capture excess energy from its solar farms which can be released when demand requires – even when the sun is not shining.

“A global first for Lightsource bp, the Tiln battery project is proof that we have the skills, knowledge and drive to innovate beyond solar,” says **Sam Toner, the head of battery energy storage systems business development Europe** who helped deliver the project. “It’s a sign of our plan for things to come as we continue to build our onshore renewables capability and unlock projects that bring great value for the UK power system in new and innovative ways.”

“
The Tiln battery project
is proof that we have
the skills, knowledge
and drive to innovate
beyond solar.”
”

Sam Toner
Head of battery energy storage systems
business development Europe

^a bp has agreed to acquire the remaining 50.03% of Lightsource bp in a deal expected to complete in the second half of 2024, subject to regulatory approvals.



Manor Farm, UK



In 2023:

- Lightsource bp participated in the UK government's Solar Taskforce, helping develop a long-term solar strategy to support the national 2035 target. Lightsource bp provided expert input alongside peers and the industry trade association, to support a new solar roadmap for the country covering skills, planning legislation, grid connectivity and other key issues.
- Lightsource bp constructed the 61MW Tiln solar farm, and 25MW/50MWh Tiln energy storage project, generating sustainable renewable energy for the UK electricity grid. It will enable the greater supply of renewable energy with grid balancing technology which helps manage the demand and supply of electricity from variable renewables.



Case studies

Producing energy that the UK needs today and progressing our plans to help support a lower carbon future sees us working with a wide range of businesses from across the UK.

In 2023 we spent a total of £5.3 billion with UK suppliers. From Southampton to Shetland, we worked with a wide and diverse range of businesses, from start-ups to companies with over 100 years' experience. Through several projects we supported companies to trial new technologies, gain experience operating overseas, grow their workforce and build credibility in their respective markets.

These case studies shine a spotlight on some of the companies we worked with in 2023.



“Our contract with bp has been a game changer, helping to elevate our profile in the marketplace.”

Simon McBain
Managing director, Camm-Pro,
Aberdeenshire

Camm-Pro

“Our contract with bp has been a game changer, helping to elevate our profile in the marketplace. It also supports us to unlock opportunities to widen our service offering, accelerate our growth plans and create more local jobs.” – **Simon McBain, Camm-Pro’s Managing director.**

Founded in 2016, Camm-Pro is an Aberdeenshire based small-medium enterprise that works with energy operators to deliver project management, integration and engineering, procurement and construction services across oil and gas and energy transition projects.

The award of a multi-million pound contract with bp to deliver a new pipeline and onshore facilities on Shetland represents a real step-change for Camm-Pro with an expected boost in the workforce of around 25% to over 50 employees.

In addition to supporting Camm-Pro’s own ambitious growth plans, the new contract is driving economic growth in the local supply chain. As a company which is committed to working with local suppliers, Camm-Pro has engaged extensively with Shetland-based companies, as well as those in the north-east, to deliver the project. For example, Camm-Pro has awarded the module fabrication scopes to Forsyth’s in Buckie, helping to protect jobs and underpinning economic prosperity in this historic fishing hub in the north-east of Scotland.

Costain

“We have been operating in the Northeast for a very long time. We have witnessed it move from industrial decline to one of the most exciting places for new infrastructure in the world. The work we are doing with bp on NZT Power and NEP is leading to great things – we want to make a difference, and this partnership enables us to do just that.” – **Laura Hughes, energy sector director at Costain.**

Founded in the 1860s as a housebuilder, Costain is an infrastructure solutions company that now has 3,500 employees in the UK. With offices in London, Manchester, Aberdeen and Maidenhead, Costain has been involved in carbon capture projects since the 1960s. The company was involved in the creation of Teesside’s first industrial cluster and retains a growing presence there today.

Costain has been working with bp on the development of Net Zero Teesside (NZT) Power and the Northern Endurance Partnership (NEP) – both part of wider plans to support Teesside to transform into an innovative lower carbon hydrogen and CCS hub.

Costain’s involvement with the NZT Power and NEP project has been to oversee and manage the engineering and procurement of the onshore CO₂ gathering system and associated utilities serving the East Coast Cluster. Costain used advanced mapping technology to visualize and deliver the proposed pipeline routing which would help create the above ground CO₂ infrastructure – the first of its kind in the UK.

Working with bp on Teesside helped Costain continue its long legacy of being at the heart of industrial change in the region while growing itself and supporting local jobs. The project is showcasing the very best of Costain’s full design and development capabilities, supporting its highly-skilled team with opportunities to collaborate closely with bp.



“ Our long-term relationship with *bp pulse* is a transformative step towards bolstering the UK’s electric vehicle charging infrastructure. ”

Reza Shaybani
CEO and co-founder of The EV Network, London



“ We have witnessed the Northeast move from industrial decline to one of the most exciting places for new infrastructure in the world. ”

Laura Hughes
Energy sector director, Costain, London

The EV Network

“Our long-term relationship with *bp pulse* is a transformative step towards bolstering the UK’s electric vehicle charging infrastructure.” – **Reza Shaybani, CEO and co-founder of The EV Network.**

Founded by father and son team Reza and Sam Shaybani in 2017, The EV Network (EVN) is an electric vehicle charging infrastructure developer and investment company. It has raised £400 million to create a network of high-powered public charging hubs across the UK that help meet the changing transport needs of the country.

Since signing a framework agreement in 2021, The EVN and *bp pulse* have worked together on several exciting and innovative EV charging projects, and in 2023 delivered 10 projects and most notably launched two *Gigahubs* in Kettering and the National Exhibition Centre (NEC) in Birmingham.

Since the beginning of the relationship the two organizations have grown and developed their strategy, working together to support both new projects and deliver reliability and uptime for the consumer.

The EVN designed, developed, and constructed the NEC *Gigahub* alongside *bp pulse* as operator. At the time it was unveiled, the NEC site was the largest EV charging hub in the UK. It sits at the heart of the national motorway network, boasting 30 ultra-fast 150kW and 150 7kW charge points, conveniently located for the 60 million road users that travel through the area each year.

Having created dozens of EV charging stations across the UK, the completion of the NEC *Gigahub* helped to launch The EVN on a more ambitious growth trajectory.



Empirisys

“We are a new technology start-up and so the credibility and confidence we have gained from working with bp has been transformative. Our relationship with bp is unique, one of true collaboration, operating as an integrated team. Through collaborating with bp, we made the strategic decision to accelerate our transition from a services to a product business. This move has enabled robust expansion in both our income and workforce.” – **Gus Carroll, CEO and co-founder of Empirisys.**

Founded in 2020 in Cardiff with a team of two, Empirisys now employs 35 people and has doubled its revenue every year since it started.

Turning data into insight is where Empirisys excels. A scale-up technology business based in Cardiff, its cutting-edge data solutions create early warning signals that help mitigate process safety risks, with a particular focus on human factors. Its team of engineers and data scientists analyse masses of complex production and operational data to help identify certain conditions that may, if not addressed, increase the chances of a major accident. In so doing, Empirisys helps its customers make more informed decisions.

“
The credibility and confidence we have gained from working with bp has been transformative.”

Gus Carroll
CEO and co-founder, Empirisys,
Cardiff

Having grounded its approach to managing human factors through data analytics in academic research, Empirisys then accelerated the development of its technology by collaborating with bp, and honing its AI methodologies by training its machine learning models using bp’s vast data resources.

Working closely with bp’s team, the relationship has supported Empirisys to grow its capabilities, expand its team, and deploy its technology in global markets. Having started working together in the UK, Empirisys’ services are currently being trialled at six bp facilities, including in the Gulf of Mexico and Azerbaijan.

HYDrogen sensoR for Industry (HYDRI) consortium

“Building on the UK’s global leadership in quantum technology, we are helping to accelerate the development of a new quantum device – presenting major safety, commercial and economic benefits.” – **Robin Yellow, a principal in bp’s digital science team** who has been helping to pioneer this technology for over five years.

bp is leading the HYDrogen sensoR for Industry (HYDRI) consortium, bringing together academia and industry, to unlock the power of quantum technology for the hydrogen economy. This project draws exclusively on the UK’s expertise and supply chain in this field.

Existing hydrogen monitoring methods are complex and expensive. The consortium is on a mission to develop a new handheld quantum sensor capable of detecting hydrogen at a safe distance – previously impossible. The new technology would not only be a step forward for safety but significantly more affordable and simpler to deploy in hydrogen facilities worldwide. Creating an industry-ready device presents a sizeable economic opportunity for the UK.

“
We are helping to accelerate the development of a new quantum device.”

Robin Yellow
Principal, bp’s digital science team



“The HYDRI project is an excellent example of the development of critical technology that will underpin the UK’s future national infrastructure enabled by Scotland’s world-leading cluster of expertise in photonics and quantum technologies.” – **Dr. Johannes Herrnsdorf, Strathclyde Chancellor’s Fellow, Institute of Photonics, University of Strathclyde**, an academic partner in the consortium.

In recognition of its technological and economic potential, the consortium received £2.5 million in funding from Innovate UK – the government’s innovation agency. A collaborative project, the consortium includes Fraunhofer Centre for Applied Photonics, Redwave Labs, IS Instruments, Photon Force, Caledonian Photonics, and the University of Strathclyde, alongside bp.



Dynamon

“At Dynamon, the impact of bp’s investment has been transformative. It’s not just about topline growth – it’s about doubling our impact with well paid, highly skilled jobs right here in Southampton. Thanks to bp, we’ve expanded our horizons, reaching markets like North America at a scale that was not possible before the investment.” – **Angus Webb, CEO and founder of Dynamon.**

In 2023 bp Ventures invested in Dynamon, a data analytics software company founded at the University of Southampton. Dynamon’s EV fleet software uses data science to help support the commercial transport industry on its journey towards a lower carbon future.

Dynamon takes inspiration from the world of Formula 1 – where data analytics has become essential to success. It is bringing the use of advanced data tools to Britain’s businesses, in a way that is accessible and actionable, to help them go electric. The transition to electric vehicles demands intricate data analysis to enable businesses to make cost-effective decisions on vehicles and infrastructure. Dynamon’s software and analysis tools help companies navigate this complex journey, providing robust analysis and actionable insights that underpin fleet customer’s strategic investment decisions.

The company’s ambitious drive to create employment opportunities outside of London is becoming a reality, with more engineers in Southampton joining thanks to the bp Ventures investment. It is hoped that a ripple effect will also be felt at the University of Southampton with more opportunities to collaborate expected in the future.



Thanks to bp we are reaching new markets at a scale that was not possible before. //

Angus Webb
CEO and founder, Dynamon,
Southampton



Johnson Matthey

“bp’s proposed H2Teesside project could play a role in the UK’s efforts to decarbonize industry, and we’re proud to have our low carbon hydrogen technology at the heart of helping to achieve that vision.” –

Alberto Giovanzana, Johnson Matthey managing director.

For over 200 years, Johnson Matthey has been operating in the UK. Today, it is considered a world leader in technologies reducing carbon emissions and has been collaborating with bp for decades, including on the development of sustainable biofuels.

Johnson Matthey is set to play a vital role in bp’s plans to produce hydrogen on Teesside. Its innovative approach to hydrogen production, known as **LCH™** technology, has been selected for H2Teesside^a which, if it goes ahead as planned, could be one of the biggest blue hydrogen production facilities in the UK.

The **LCH™** technology uses a gas-heated reformer and autothermal reformer to produce low carbon hydrogen from natural gas and could be used to decarbonize hard-to-abate industries including glass making, steel and cement.

This solution could provide a lower carbon, more sustainable, and cost-effective alternative to traditional hydrogen production. Not only is Johnson Matthey working on innovation in hydrogen for the UK, it is supporting a project that could help generate both direct and indirect job opportunities for the local community.



“
bp’s proposed
H2Teesside project
could play a role in
the UK’s efforts to
decarbonize industry.”

Alberto Giovanzana
Managing director, Johnson Matthey, London

Wood

“As part of the Seagull project, our team gained invaluable skills supporting our growth, local employment and project delivery.” –
Shaun Lewis, VP upstream, Wood.

From its headquarters in Aberdeen, Wood has become a global leader in consulting and engineering across energy and materials, employing 35,000 people across 60 countries.

Wood has been supporting bp’s North Sea operations for several decades. In 2018 Wood was appointed to provide engineering, procurement, construction and commissioning services for the Seagull development which came onstream in 2023 – the first tieback to the Eastern Trough Area Project (ETAP) hub in 20 years.

Around 300 of Wood’s engineers and consultants were deployed on the North Sea project from its early design phase, all the way through to construction and now production.

Developing Seagull meant reusing existing subsea infrastructure, which offers substantial benefits but also requires innovative solutions to the challenges of building on an existing asset. The skills developed and project experience are now being applied to Wood’s delivery of topside modifications on Murlach, another subsea tieback project to ETAP. In turn, this supports Wood in providing high-quality job opportunities in Scotland and elsewhere and to support its own supply chain.

A culture of openness and collaboration between bp and Wood was essential for the project team to effectively develop the solutions needed for success. Wood’s team, particularly the graduate designers and engineers, benefited from the opportunities to upskill and the unique experience of working on the Seagull project.



^a Project subject to FID.



”

As part of the Seagull project, our team gained invaluable skills supporting our growth, local employment and project delivery. ”

Shaun Lewis
VP upstream, Wood, Aberdeen

Continuum Industries

“Our project with bp has been important to our business growth. Working on the Morven offshore wind farm project fits squarely with our mission to accelerate the development of new infrastructure from project concept to planning consent.” **Grzegorz Marecki, Co-founder and CEO of Continuum Industries.**

Founded at Edinburgh University in 2018, Continuum Industries is helping to streamline the planning and development phase for building new infrastructure. It has created AI-powered technology that analyses geospatial data, biodiversity, planning rules, social impacts, protected areas and more – to select optimal routes for transmission lines, cables and pipelines.



”

Our project with bp has been important to our business growth. ”

Grzegorz Marecki
Co-founder and CEO, Continuum Industries, Edinburgh

b Depending on permits and contracts and subject to final investment decision



Social performance

bp in the community





Social performance

We aim to invest in a way that maximizes local impact

In the UK, as elsewhere, we want to be a business that makes a positive and sustainable difference to people's lives. This means investing time, skills and financial resources to engage with and support communities in the places where we operate across the UK.

Through a range of social investments and donations, we work with organizations to make a positive impact on society in areas such as education, employment and social mobility, workforce diversity and biodiversity, and by providing charitable support to help some of the most vulnerable in society.





Investing in education and skills for a just transition

We believe that to be prepared for the jobs of tomorrow, students will continue to need a strong foundation in STEM education and employability skills. For more than 50 years, we have been providing educational resources and employability support to help inspire the next generation and develop home-grown talent with the skills the energy sector needs to deliver the energy transition.

Developing lower carbon skills for the UK

We are a member of the UK government's Green Jobs Delivery Group – a forum tasked with setting out plans to enable the workforce to deliver net zero. Through this forum we chair the Carbon Capture and Storage (CCS) Task and Finish Group which will shape recommendations to tackle skills challenges for the UK government's Green Jobs Action Plan, set to be published in 2024.

"Carbon capture and storage not only plays a vital role in the UK's plans to make the transition to net zero but will be key to the future economy," said **Andy Lane, bp's VP hydrogen and CCS, UK**. "Through the combined efforts of government, industry, skills bodies and unions, the UK has an opportunity to build the skills the sector needs to enable the CCS industry to deliver."



Young Engineers and Science Clubs Scotland event at bp North Sea headquarters



“
Low carbon skills are so important for our future, and developments in Teesside are leading to the creation of hundreds of jobs.”

Anya Larkin
From Hartlepool, one of the first 20 students to join the programme



Social performance

Transition skills on Teesside: Redcar & Cleveland College

In Teesside we are contributing to the local Skills Improvement Plan and are actively participating in initiatives designed to help people from diverse backgrounds prepare for jobs in lower carbon industries. This includes funding Redcar & Cleveland College’s Clean Energy Technician Scholarship Programme, a bespoke two-year engineering course that specializes in the skills needed for the future.

The first 20 students joined the programme in 2023, including **Anya Larkin from Hartlepool**: “I chose engineering because of the practical hands-on nature of the course. Low carbon skills are so important for our future, and developments in Teesside are leading to the creation of hundreds of jobs which will require people with lower carbon engineering skills.”

In the second half of 2023
~380,000
young people were potentially reached by Energising Futures resources.

Energising Futures: developing real-world skills

In June 2023 we launched Energising Futures to support teachers and students around the UK with free STEM resources. An evolution of bp’s Educational Service, the new online platform provides educational tools to bring real-world science to life.

Over 5,000 teachers had used Energising Futures resources by the end of 2023, potentially reaching around 380,000 young people in their classrooms. During that period, 40% of all UK secondary schools had a teacher using Energising Futures.



Boosting social mobility

We want to give everyone the opportunity to succeed, whatever their start in life. That is why we are providing a wide range of opportunities, supporting programmes across the UK that could change lives and benefit generations to come.

Supporting young people into work

We launched our Work Experience programmes in 2023, reaching more than 500 young people globally. Over 370 of those participants were in the UK.

The aim of the programmes is to help young people to develop the key skills and confidence they need for a bright future in the workplace.

We work with a range of diversity, equity and inclusion (DE&I) and social mobility partners like Career Ready to deliver this goal. In 2023 over 50 Career Ready interns completed four-week paid placements within our UK offices – the largest intake to date.



Chicheley Park SF Connect, Newport Pagnell, UK



“ I felt ecstatic when I was offered a full-time position and was very excited to start a new chapter in my life. ”

Callum Ward
bp sales assistant at Chicheley Park who completed the ‘Get into Retail’ programme



Migrant Leaders event at bp's Sunbury campus

Get into Retail with The Prince's Trust

In 2023 bp started a partnership with The Prince's Trust, helping up to 50 disadvantaged young people get into paid work. The 'Get into Retail' programme gives participants access to valuable work experience and employability training.

At the end of 2023, 14 out of the initial 18 participants had secured permanent employment with bp.

“My previous employer was only giving me four hours a week if I got a shift at all, so because of that I was stuck on universal credit,” says **Callum Ward, a bp sales assistant at Chicheley Park** who completed the programme. “I felt ecstatic when I was offered a full-time position and was very excited to start a new chapter in my life. It's the happiest I've been in a very long time.”

Enhancing social mobility with Migrant Leaders

One of our core aims is to bridge the gap between education and employment. Since 2022 our collaboration with Migrant Leaders, a UK charity that works with disadvantaged young migrants to broaden their horizons, has helped young people to develop the key skills and confidence they need for a future in the workplace.

In 2023 as part of our new global Work Experience programmes, 10 participants from Migrant Leaders attended a five-day paid programme at bp. Later in the year, a further 110 young people attended a one-day insights event to learn about a career in bp.



Supporting communities through volunteering and charitable giving

We have a long history of direct support through charitable donations, partnership programmes and sharing our time and expertise.

In 2023 we responded to the cost-of-living crisis by donating more than £16 million to organizations that support some of the most vulnerable families in society.

Giving back: fundraising and volunteering

We encourage bp employees to pursue their own passions, and support community organizations and charities through both volunteering and charitable giving. In 2023 our employees donated over £2.49 million, including matched funding from the bp Foundation.

For example, our volunteers worked with Aberdeen City Council's employability team, ABZ Works, on their Fit Next project – an initiative for school-leavers without a positive destination.

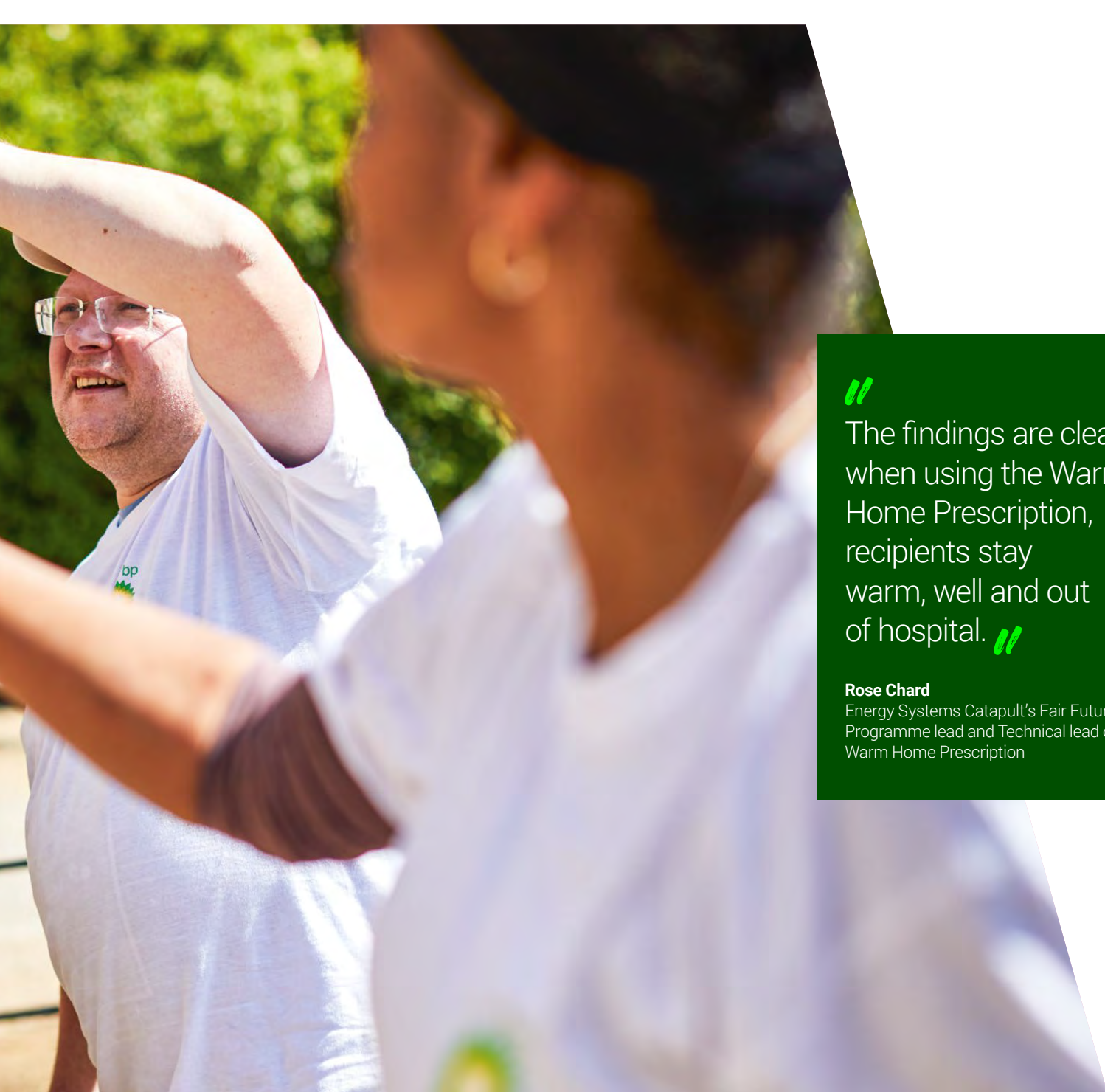
"Thanks to bp volunteers and staff from other businesses, the young people taking part in our Fit Next project were able to take part in mock interviews," said **employability keyworker David Kindness**.

"This provided them with the opportunity to be interviewed by experienced managers, both on a one-to-one basis and in a panel situation. The mock interviews were rewarding and informative, boosting the young people's confidence in being prepared for different types of interviews in the future. In addition, the volunteers gave feedback and tips on CVs and interview techniques to the participants and provided information and advice related to working in the energy sector."

In 2023 our employees donated over
£2.49m
including matched funding from the bp Foundation



bp community volunteers



Helping scale up the Warm Home Prescription

Warm Home Prescription is a service created by Energy Systems Catapult to help people struggling to afford heating and who have health conditions exacerbated by the cold. We provided funding in 2022 to expand the trial of Warm Home Prescription throughout the winter months of 2022 and 2023.

During the trial, the service supported over 820 households in Aberdeen, Middlesbrough, Gloucestershire, and London – identifying vulnerable people and raising their homes to a healthy temperature at no extra cost.

“The findings are clear: when using the Warm Home Prescription, recipients stay warm, well and out of hospital,” said **Rose Chard, Energy Systems Catapult’s Fair Future Programme lead and Technical lead on Warm Home Prescription**. “We’ve proven that this service could pave the way for the most vulnerable UK households to stay warm in the long term as the energy system changes. As a result of the service and its impact, organizations across the UK are delivering similar support to thousands more homes.”

“

The findings are clear: when using the Warm Home Prescription, recipients stay warm, well and out of hospital. ”

Rose Chard

Energy Systems Catapult’s Fair Future Programme lead and Technical lead on Warm Home Prescription



Feeding Families

Tackling food poverty

In 2023 our work continued with UK charities dedicated to addressing food poverty and reducing waste.

Our support started in 2022 with a donation to a fund that was set up to distribute 800 fridges and freezers to charities across the UK, enabling them to rescue and store more fresh and frozen food. In 2023 we provided £3.5 million to The Felix Project, a charity fighting hunger by delivering surplus food to charities and schools in London. This funding will enable the charity to distribute the equivalent of 2.9 million meals and support the development of a Coronation Food Hub at its south London depot.

We have also been supporting Feeding Families, a food poverty charity based in north-east England, to help provide food to those who need it most. Feeding Families enables thousands of families in desperate need to have access to their emergency food boxes and support packages. Our funding

helped them expand their services – moving to a new site double the size of their previous premises, purchasing an additional van, and providing a new out-of-hours service. As a result, they have doubled output from 16,000 (in 2022-23) to 32,000 emergency food boxes in the past 12 months.

Juliet Sanders, CEO said, “We can’t underestimate the impact of the funding we received from bp. While we were already experiencing success and growth, the demand we were faced with was outstripping our resources. Being able to create capacity in buildings, transport, staff and services has meant we could move forward much more quickly than we could ever otherwise have done and as a result many thousands more have received the help they so desperately need.”



We can’t underestimate the impact of the funding we received from bp. While we were already experiencing success and growth, the demand we were faced with was outstripping our resources. //

Juliet Sanders
CEO, Feeding Families

Keeping UK youth centres up and running

OnSide is the national youth charity behind Youth Zones – state of the art youth centres located in some of the UK’s most economically disadvantaged communities. There are 15 Youth Zones in the growing OnSide network, providing 55,000 young people with life-changing opportunities and support. Due to rising energy costs Youth Zones were at risk of having to cut some of their services. In 2023 bp started working with OnSide, providing funding across their network.

“We are incredibly grateful to bp for stepping forward to support us at a vital time for young people, their families, and our network of Youth Zones,” said **Jamie Masraff, OnSide chief executive**. “bp’s generous £3 million donation is enabling tens of thousands of young people to benefit from vital youth work support; funding the training we provide to upskill hundreds of youth workers and supporting OnSide as we embark on a period of growth that will see our reach grow to 22 Youth Zones, supporting over 100,000 young people.”



OnSide Youth Zone



Working to boost Britain's biodiversity

Through our partnerships and programmes in different parts of the UK, we are taking action to make a positive impact to restore, maintain and enhance biodiversity. We have been investing in support of the UK's biodiversity for decades, including our 20-year collaboration with Future Woodlands Scotland, which originated with the pioneering Scottish Forest Alliance. The Alliance successfully added 5,000 hectares of new or restored native woodland, enriching Scotland's biodiversity.

Enhancing nature

We donated £2 million in 2021 to Future Woodlands Scotland's Future Woodland Fund for a three-year pilot scheme, working with landowners to fund tree planting and enable the restoration of Scotland's ghost woodlands. At the end of the trial the fund had enabled 18 live projects totalling over 1,000 hectares of new or restored woodland.

The fund had enabled 18 live projects totalling over **1,000ha** of new or restored woodland

Urban forestry programme

In 2023 we announced a new initiative with Future Woodlands Scotland – the Urban Forestry Programme – which aims to increase the number of trees and green spaces in Scotland's towns and cities. In support of the planned Morven offshore wind farm project, we are looking at contributing up to £10 million to urban areas where creating greenspace is anticipated to be of the most benefit to people.

"The Urban Forestry Programme has the potential to benefit more than 4.5 million people living in Scotland's urban areas," said **Future Woodlands Scotland's chief executive, Shireen Chambers**. "The purpose of this programme is to create leafier neighbourhoods to encourage people to spend more time outdoors interacting with their communities."



“ The Urban Forestry Programme has the potential to benefit more than 4.5 million people living in Scotland's urban areas. ”

Shireen Chambers
Future Woodlands Scotland's chief executive



Restoring habitats with the River Dee Trust

As part of our aim to protect and restore natural habitats and encourage biodiversity, in 2023 we developed a collaboration with the River Dee Trust in the north-east of Scotland. Our support is funding a programme co-ordinator role for the first phase of the Trust's new 'Save the Spring' programme which was launched in October 2023, in partnership with the Dee District Salmon Fishery Board and The Atlantic Salmon Trust.

"We were thrilled to extend our partnership with bp, which has already helped us deliver our ambitious restoration aims and efforts," said **Lorraine Hawkins, River director at River Dee Trust**. "bp's employees have been involved in multiple volunteer activities throughout 2023, including removing invasive non-native plants from the riverbank near Aberdeen – a significant threat to global biodiversity – as well as environmental sampling to assess river health."

“

We were thrilled to extend our partnership with bp, which has already helped us deliver our ambitious restoration aims and efforts. ”

Lorraine Hawkins
River director at River Dee Trust



Photo by Conor Gault



Oxford Economics' glossary

The following terms are used in the report on bp's impact on the UK economy. Every effort has been made to align reported figures with the Office for National Statistics (ONS).

bp created/generated refers to metrics – such as gross value added, jobs, and tax – for which bp is directly responsible at its operational sites (direct impacts).

bp supported refers to metrics – such as gross value added, jobs and tax – that other businesses created because of bp's expenditure. For example, because bp purchased inputs of goods and services from them (indirect impacts via operational spending or indirect impacts via capital expenditure).

Capital expenditure is spending on goods and services that bp uses up across multiple years, especially on buildings, machinery, and equipment. Currency values, unless otherwise stated, are in GBP at 2023 prices.

Direct impacts are jobs and gross value added generated at bp's operational sites in the UK.

Employment or jobs is the number of people employed, regardless of whether their employment is full-time or part-time, or whether they are employed directly by bp or as an individual on a fixed-term. It is measured on a headcount basis for comparability to national statistics.

Gross value added (GVA) is the difference between the revenue of a firm minus the cost of bought-in goods and services used up to produce that revenue. It is also equal to the sum of compensation of employees and earnings before interest, taxes, depreciation, and amortisation (EBITDA). Summed up for all firms in an economy, gross value added is equal to GDP with minor adjustments for taxes and subsidies.

Gross domestic product (GDP) is the sum of all gross value added created across all entities, plus some adjustments for taxes and subsidies within an economy in a single year. GDP is the most common number economists and commentators use to measure the size of an economy and the rate it is growing.

Indirect impacts via operational spending are gross value added, jobs, and tax supported along the supply chain due to bp's spending with its operational suppliers.

Indirect impacts via capital expenditure are gross value added, jobs, and tax supported along the supply chain due to bp's spending with its capital goods suppliers.

Operational spending is spending on goods and services that will be used up in a single year.

Taxes are monetary payments to the UK government or local authorities.

Oxford Economics' methodology



Scan this QR code to access Oxford Economics' methodology

Additional information

Acknowledgement

bp would like to thank its partners in the production of this publication.

Disclaimer

The section of this publication titled “bp’s impact on the UK economy 2023” on pages 4 to 14 (UK Economic Impact Report) and page 50 have been written by Oxford Economics. Oxford Economics’ methodology can be accessed via the QR code included on this page. bp has not endorsed or verified the UK Economic Impact Report and assumes no obligation to update, revise, or supplement the UK Economic Impact Report or any of its contents. No warranty or representation is made regarding the accuracy, completeness or validity of the information contained in the UK Economic Impact Report. Neither BP p.l.c. nor any of its subsidiaries (nor their respective officers, employees and agents) accepts any liability whatsoever for any loss or damage arising from reliance on or actions taken based on any of the information set out in this publication.

Cautionary statement

In order to utilize the ‘safe harbor’ provisions of the United States Private Securities Litigation Reform Act of 1995 (the ‘PSLRA’) and the general doctrine of cautionary statements, bp is providing the following cautionary statement. This publication contains certain forecasts, projections and forward-looking statements – that is, statements related to future, not past events and circumstances – with respect to the financial condition, results of operations and businesses of bp and certain of the plans and objectives of bp with respect to these items. These statements are generally, but not always, identified by the use of words such as ‘will’, ‘expects’, ‘is expected to’, ‘targets’, ‘aims’, ‘should’, ‘may’, ‘objective’, ‘is likely to’, ‘intends’, ‘believes’, ‘anticipates’, ‘plans’, ‘we see’ or similar expressions. By their nature, forward-looking statements involve risk and uncertainty because they relate to events and depend on circumstances that will or may occur in the future and are outside the control of bp. Actual results or outcomes may differ materially from those expressed in such statements, depending on a variety of factors, including the risk factors discussed under ‘Risk factors’ in bp’s most recent Annual Report and Form 20-F as filed with the US Securities and Exchange Commission and in any of our more recent public reports. Our most recent Annual Report and Form 20-F and other period filings are available on our website at www.bp.com or can be obtained from the SEC by calling 1-800-SEC-0330 or on its website at www.sec.gov.

A note about this publication

Unless otherwise stated or the context otherwise requires, the term ‘bp’ and terms such as ‘we’, ‘us’ and ‘our’ are used in this publication for convenience to refer to one or more of the members of the bp group instead of identifying a particular entity or entities. BP p.l.c. and each of its subsidiaries are separate legal entities.



BP p.l.c.
1 St James's Square
London SW1Y 4PD

© BP p.l.c. 2024
bp.com/uk