

# KEEP OUR FUTURE AFLOAT

STRATEGY AND ACTION PLAN  
FOR 2023 AND 2024



DELIVERING UK SECURITY AND PROSPERITY,  
SUSTAINING SKILLS

## KEEP OUR FUTURE AFLOAT WHO WE ARE, WHAT WE DO

**Keep Our Future Afloat (KOFAC) seeks to educate and raise public awareness about the value of the UK submarine and naval shipbuilding industry its skills and supply chains by highlighting the contribution they make to national security, social and economic benefits in communities that host, build and operational activity.**

**KOFAC continues to evolve as a unique collaborative, independent, initiative engaging the public at every opportunity.** It is led by Unite and GMB trade unions with Councils, local industry, communities and BAE Systems Maritime Submarines support. A small Secretariat assists delivery. It robustly researches so as to influence and inform debates, decisions and priorities.

**KOFAC is a strong enduring brand with a reputation for being effective,** speaking on defence, procurement, industrial skills, regeneration and infrastructure priorities.

### OUR 3 AIMS ARE TO:

**Sustain, grow highly skilled jobs** in Northwest England's submarine and naval shipbuilding industrial base and its supply chain companies.

**Secure full utilization of the unique naval submarine and warship assets** in the UK submarine and shipbuilding industrial base supply chains so as to drive prosperity.

**Sustain naval submarine, large warship design and production capability at Barrow** and in NW England's shipyards whilst making a case for strategic investment in infrastructure and skills.

### OUR OBJECTIVES, WE CHAMPION A NATIONAL ENDEAVOUR, BY

**Raising awareness of its scale** and priority to deliver 4 Dreadnought Class boats to sustain the Royal Navy's "Operation Relentless".

**Promoting to local, national and global audiences awareness of the craft skills,** science, innovation used in Dreadnought, SSN-AUKUS and Astute Class submarine programmes locally, with US and Australian areas and companies as well as increasing opportunity for people to benefit from highly skilled employment to well beyond 2050.

**Educating, informing, advising on the scale and location of regeneration, education, and skills development needed** alongside road, rail, sea, air transport, housing, healthcare, infrastructure to service the need to accommodate up to 7,000 more skilled workers in our communities.

We strive towards a sustainable outcome which sees Barrow shipyard, its national and international supplier base sustaining a core workload, skills, UK sovereign technologies, innovation to deliver world class products for the Royal Navy to deliver its defence tasks at the same time as enabling Barrow to evolve into a "Northern Powerhouse."

### OUR DIRECTION OF TRAVEL

KOFAC now in its 20th year it is seeking to transform its status to enable it to do more, soundly financed, engaging young people, local communities, industrial sector groups, national and regional industrial leaders to further public interest in naval shipbuilding industry.

*At a time of challenging global tensions full of uncertainty with new stronger international defence alliances emerging KOFAC continues to focus on enabling more people understand how naval industrial capability underpins UK, NATO and the tri-nation AUKUS defence activity. A current priority is to enable anticipated shipyard and supply chain growth to benefit workforces, families, and create prosperous communities.*

We hope you are spurred on to support its work.

**Azza Samms, Chairman, October 2023**



## OUR ACTION PLAN 2023, 2024

### To Advance KOFAC's aims and objectives by resourcing the campaign efficiently.

**To undertake research and Inform the public, industry and trade union and community leaders of the need to sustain a flow of orders to the naval submarine and warship building industrial bases** in order to deliver the capability the Royal Navy and RFA needs.

**To support the attraction and integration of skilled people into Barrow and Furness alongside growing our own skills to boost educational aspirations** and meet the needs of the submarine supply chain.

**To engage with the Nuclear Skills Taskforce, national shipbuilding Office, Dreadnought Alliance, BAE SYSTEMS, Submarine Delivery Agency Cumbria local Skills Investment Plan champions and supply chain companies** to encourage take up of career opportunities in highly skilled jobs with good salary levels that high technology, digital shipbuilding offers to people of all ages.

**To promote the role of Barrow shipyard in North West England in delivery of design, build, test, commissioning of nuclear-powered submarines** and Cammell Laird's roles in meeting needs of large complex warships, RFA vessels and submarine supply chain support.

### To highlight the progress of:

- Delivery Phase 3 of the 4 boat Dreadnought Class Submarine Programme,
- 7 Astute Class submarines, 5 of which are currently operational
- SSN AUKUS submarines design and build
- P-8A Poseidon Maritime Patrol ASW Aircraft
- Unmanned Underwater Vehicles
- BAE Weapons activities

To support international defence collaboration where this fits with UK defence priorities.

To engage widely to support regeneration and investment in new infrastructure including road, rail, sea, air transport, housing, education, skills and capacity building, healthcare improvements needed to support the influx of people, businesses needed in communities hosting the industry.

To draw attention to future submarine, warship capability risks if future workload gaps were to arise.

To continue to work with CSEU, Unite and GMB trade unions to further investment in skills and technology for submarine and shipbuilding.

To attend conferences, other events and publish information to convey our research and core messages.

*"Our adversaries cannot replicate the skills we have in Barrow or the expertise of our submariners and they may well be the deciding factor in a future conflict." Submarines can remain undetected even when very close to an adversary's coastline, enabling covert eavesdropping of communications, the deployment of special forces or the launch of advanced technology such as reconnaissance or suicide drones."*

Ben Wallace MP, Secretary of State for Defence, 22 September 2022

## KOFAC's CORE MESSAGES

**The first duty of government is “to protect the nation and help it prosper”. A strong naval submarine and warship building industrial base enables delivery of Continuously At Sea Deterrent (CASD) patrols as the ultimate guarantee of our national security against the most extreme risks from nuclear-armed adversaries. Unilateral disarmament cannot encourage other nations to disarm.**

**The Dreadnought Class submarine launched ballistic missile system is the most ‘cost effective’, value for money, affordable means of providing a UK’s minimum credible nuclear deterrent** offering invulnerability, range, endurance, credibility.

**Astute Class and SSN AUKUS submarines provide capability** to undertake surveillance, anti-submarine warfare, land attack and other activity vital to sustaining the sea-lanes, protecting the deterrent and force projection.

**The UK submarine programme makes a major contribution to UK prosperity** and acts as a stimulus for skills acquisition by people of all ages. Its significant social impact helps to implement HM Government’s Levelling-Up, Build Back Better, Town Deal and the Defence and Security Industrial Strategy policies.

**Around 31,000+ jobs depend on a UK submarine supply chain involving over 1,500 companies** located in 421 towns and cities of the UK. It is therefore essential to invest in, road rail sea and air transport infrastructure to connect this strategic industrial network.

**There is world class capability at Barrow shipyard**, which is physically the largest of BAE SYSTEMS 50 UK sites. It employs the group’s largest number of skilled people..

**KOFAC welcomes the July 2023 Defence Command Paper’s** focus on exploring ways to incentivise industry to increase productivity through investment in new skills, digitisation, “AI” and automation.

### Current Submarine Programmes

- *build of 4 Dreadnought Class boats, a “National endeavour”*
- *boats 5 to 7 of the 7 boat Astute Class, with 5 boats already operational*
- *design and build of SSN AUKUS Class of attack submarine*
- *Cetus autonomous underwater vehicles development*
- *continued infrastructure investment at Barrow, Raynesway in Derby, Faslane and Devonport dockyards assisting build, deployment and refit*
- *growth of Rolls Royce Raynesway and BAE Systems Barrow shipyard facilities*



## BARROW SHIPYARD

Barrow's 'digital shipyard' is currently the only site licensed in the United Kingdom for design, build, test and commissioning of nuclear-powered submarines.

### Barrow Shipyard and its Supply Chain is Delivering Three Classes of Nuclear Powered Submarine

- A “national endeavour” to deliver 4 Dreadnought class boats called Dreadnought, Valiant, Warspite, and King George VI. Each boat is 153.6m long, displacing 17,200tonnes.<sup>1</sup>

In 2027, the programme will support in excess of **20,000** jobs and in the final years of the programme (2033 to 2035), around **9,000** UK based jobs will be supported.<sup>1</sup> Over 90% of Dreadnought related work will reside in the UK<sup>1</sup>

- **£7.5 billion** will be spent with approximately 1,500 UK suppliers in the first and second tier over the life of the Dreadnought programme. It spent over £600 million with UK suppliers in 2019. The majority of this spend was on manufacturing (58%), followed by construction (16%) and engineering (15%).<sup>1</sup>
- The planned supply chain includes the following highlights across the country:
  - Submarine structures, power systems and sensors from the North West;
  - Gearboxes and steel from Yorkshire; - Nuclear steam raising plant and mechanical handling systems from the East Midlands; - Engines from the West Midlands; - Command and control systems from London; - Electrical systems, antenna systems and control panels from the South East; - Sonar and communications equipment from the South West; - Periscope from Scotland.<sup>1</sup>
- A 2012 Mod Study suggested that Barrow could gain an estimated £4bn of GVA as part of a £12bn GVA contribution to UK GVA that the Dreadnought programme would deliver.
- **Astute boats 6, HMS Agamemnon and 7, HMS Agincourt** for delivery by the mid-2020s
- **SSN-AUKUS:** A £4bn order was made on 1 October 2023 for long lead items and prototyping of a SSN-Aukus boat 1. This order embraces work by BAE Systems, Rolls-Royce and Babcock.
- The decision as to how many SSN-AUKUS submarines the UK will require will be made by the Government in due course and will be reflective of the strategic need in the years ahead.
- The majority of a submarine's equipment and cost is sourced in the UK although there is some involvement from France and the United States of America.

### Social impact of Barrow Shipyard

- By the end of this year (2023), Barrow Shipyard's workforce will grow to **12,500**, including around new 900 apprentices and graduates. The business plans to recruit an additional **2,700** people next year, which will include a further 900 apprentices and graduates providing a significant employment boost for the region.
- Submarine Academy for Skills has operated since 2018, it was a £25m investment.
- The annual wage bill in 2020 was £480m.
- Barrow shipyard is licenced to design, build, test, commission nuclear powered submarines
- Barrow shipyard is the largest UK manufacturing site for BAE Systems (2022)
- The **170** acre site includes **14** acres added at Park Road, Barrow in 2021.
- To maintain its position as the custodian of the UK's submarine design and build capability, BAE Systems' Barrow site has seen approximately **£1 billion** of investment in facilities and infrastructure. A further **£450 million** is being invested in new technology to optimise design and manufacturing processes.
- There was a £56m spend with 68 suppliers in the Barrow and Furness constituency<sup>1</sup>



- Shipyard employment will have risen from 2,900 in 2003 to 12,500 by December 2023.
- A £7.2m investment at Walney Airport in 2019 has boosted connectivity by air from Barrow.

#### In 2023 and 2024 BAE Systems is:

- Continuing to invest in modernising the shipyard through significant infrastructure investment, including a new office campus.
- Supporting secondary education at Furness Academy, Barrow.
- Working with Furness Education and Skills Partnership and Cumbria Careers Hub to build Science technology engineering Maths (STEM) links between industry, commerce and schools.
- Continuing to support delivery of the Barrow Town Deal and Levelling-Up Funded investments in Barrow and engage with Team Barrow Government team since HM government announced in July 2023 that “we want Barrow to be a new powerhouse for the north – extending beyond its current boundaries with thousands of new homes and space for businesses to benefit from scientific and technical expertise already clustered there.”
- Rolling out its social impact supply chain support in partnership with Cumbria Chamber of Commerce.



#### BAE Systems Group UK Economic Impact <sup>2</sup>

- **39,600** FTE jobs in the UK
- **132,000** FTE jobs supported
- Every £100 spend generates £350
- **£78,570** average contribution per employee to UK GDP
- **11.1BN** GVA contribution to UK GDP
- **£4.1BN** spend with 6000 suppliers
- **£180M** invested in education and skills
- **£3.7bn** exports from UK
- **£1.45bn** R and D carried out
- **1070** apprentices recruited 2022
- **710** graduates recruited 2022



#### Sources:

- 1 Spotlight on Dreadnought prosperity report BAE Systems, March 2021
- 2 BAE SYSTEMS Economic Report Impact Oxford Economics, June 2023

## UK SUBMARINE PROGRAMMES 2022-2070

For Barrow delivering the remaining 2 Astute and the 4 Dreadnought class boats is the current priority for the supply chain and the workforce. Few UK sectors have visibility of future demand that the UK submarine industrial base enjoys. These long-term programmes provide a firm foundation for our growing our own skills locally, bringing specialists in and creating more prosperity through new jobs and supply chain company activity.



The infographic features a large image of a Dreadnought Class Submarine on the surface of the ocean. Text and icons are overlaid on the image. In the top left, the Submarine Delivery Agency logo is shown. The title 'Dreadnought Class Submarine' is prominently displayed. Various statistics and features are listed, including the length of piping, number of electrical items and cables, crew size, and the submarine's ability to make its own oxygen and water. A comparison of the submarine's length to London buses is provided at the bottom right. The names of the four submarines are listed on the right side.

**Submarine Delivery Agency**

### Dreadnought Class Submarine

**42.5km** of piping, 13,000 electrical items and more than **20,000** cables on board

Makes its own oxygen and water

$O_2$   $H_2O$

Innovative lighting will allow the crew to simulate night and day

Will enter service in the **early 2030s**

The four submarines will be called **Dreadnought, Valiant, Warspite and King George VI**

Approx. **153m** long (almost **13** London buses)

## THE DREADNOUGHT FLEET

BAE Systems is the industrial lead in the Dreadnought Alliance alongside partners Ministry of Defence, Rolls-Royce and the Submarine Delivery Agency, to deliver the Dreadnought programme - a "A National Endeavour", supplying a new generation of 4 nuclear-powered submarines to carry the UK's independent nuclear deterrent.

Dreadnought boats will be the largest submarines ever built for the Royal Navy. Displacement is 17,200 tonnes, length 153.6 metres, crew around 130. Each boat will have:

- a new generation of nuclear reactor (PWR 3) providing power and propulsion
- common missile compartments to those operated by USA's Columbia class boats
- sophisticated electronic systems, sensors and tactical weapons.



Delivery Phase 3 (DP3) work on Dreadnought, Valiant and Warspite involves investment valued at £10Bn, starting with over £2.4Bn in contracts awarded to BAE Systems and Rolls Royce at the end of March 2022. Earlier a £1.3bn contract for (DP1) for steel cut on the first boat started in 2016. In 2018, a £900m contract for Delivery Phase 2 (DP2) ran to 2022.

The first of Class, HMS Dreadnought, passed its mid-point in construction in Summer 2022, including all missile tubes delivered. Second boat HMS Valiant is well underway. The third HMS Warspite, began construction in Autumn 2022. King George V1 will follow..

The 4 boats will begin to replace the current Vanguard class in the 2030s, ushering in a new era of at-sea deterrence, protecting and providing the ultimate guarantee of UK's national security.

Dreadnought build supports almost 30,000 UK jobs at its peak. Around half of these jobs are in the North West of England making a significant contribution to the Government's Levelling-Up and UK Shared Prosperity priorities.

## THE ASTUTE FLEET

**BAE Systems build of Boats 6 and 7: HMS Agamemnon and HMS Agincourt are progressing with their dry phases before delivery by 2026 .5 Astute class boats have already been commissioned into Royal Navy service: HMS Astute, HMS Ambush, HMS Artful, HMS Audacious and HMS Anson. Boats 4 to 7 are expected to cost £6,967m or an average of £1741.75m each.**

Astute submarines are the largest, most advanced and powerful attack submarines ever operated by the Royal Navy, combining world-leading sensors, design and weaponry in a versatile vessel. They are armed with Spearfish torpedoes, Tomahawk land cruise missiles and intelligence gathering capabilities. They are designed to be adaptable throughout their life with modular systems upgrades and have roles to protect the nuclear deterrent and Maritime Task Groups.





## THE SSN-AUKUS FLEET

On 1st October 2023 announced a £4bn design and prototyping order this follows on from the 14 March 2023 Australia, the United States and UK publication of the tri-nation Nuclear Submarine Pathway, collaboration to build a new class of submarine for us by the Royal Navy and the Australian Navy incorporating technologies from all 3 countries. The submarines will address future security challenges and support peace, prosperity, and stability.

### AUKUS Pillar One includes:

- selling three to five U.S. Virginia-class, nuclear-powered submarines to Australia in the early 2030s, allowing Australia to start crewing and operating its own interim fleet.
- training Australians to crew and to produce such submarines.
- significant financial contributions from Australia to expand UK and US own submarine production capabilities.
- Australia hosting American and British submarines out of a base in Western Australia in 2027, helping maintainers them learn to support nuclear-powered vessels.
- the Royal Australian Navy fielding a fleet of attack submarines built in Australia, with some manufacturing assistance from companies in the U.K by the 2040s.
- AUKUS partners will focus on enabling the new submarines to have key components where Australia has demonstrated industrial capability, such as pressure hull steel, valves, pumps, batteries, switchboards, lighting additive manufacture.



The AUKUS nuclear propulsion system will leverage both British and American technology. The combat system and weapons systems will feature much American technology.

Between 1,000 and 2,500 Australian ship maintenance workers may need to visit UK and USA to learn to work on nuclear-powered boats.

The White House and the Pentagon have also asked Congress to make British and Australian companies eligible for U.S. federal grants under the Defense Production Act — another advantage only enjoyed by Canada — arguing it will help advance AUKUS. U.S. President Joe Biden promised Australian Prime Minister Anthony Albanese during a May meeting that the U.S. would do this, but Congress has not acted on this legislative request from the Pentagon since then. - Anthony Di Stasio, who oversees Defense Production Act grants at the Pentagon

The three navies are in talks with their sectors to match interests and needs as well as identify the best opportunities for Australian involvement in the collective supply base spending “to build and strengthen the Submarine Industrial Base’s capacity, capability and resiliency,” across five main lines of effort:

1. supplier development, **to boost the production capacity of existing suppliers, develop new suppliers in areas where there may be a single vendor** building a critical part, and address market sectors where there has been a significant demand increase, such as electrical and electronics subcomponents
2. shipyard infrastructure, to ramp up their production
3. **strategic outsourcing**, appears to be taking some of this growing work away from the two shipyards. Jones said the Navy is looking to move at least 5 million production hours a year in large-scale steel fabrication, outfitting and other heavy manufacturing work to other locations, allowing the shipyards to focus on outfitting, final assembly and testing
4. workforce development
5. **investing in new manufacturing technologies** that can make work processes more efficient, such as automated welding, robotics and additive manufacturing, 3D metal manufacturing as a way of helping increase casting production without having to build mega foundries and doing it the old-fashioned way ” and in building more spare parts to improve the performance of submarine repair and maintenance activities.

*In the UK, the Integrated Defence Review refresh provided a further increase to defence spending, with the uplifts particularly focused on submarines and munitions, and an expectation to reach 2.25% of GDP by 2025. The recently published refresh of the Defence Command Paper reaffirmed the new national aspiration to invest 2.5% of GDP on defence when economic circumstances allow and committed additional funding on munitions over the coming decade.*





## THE ROYAL NAVY'S STRENGTH

The tables below shows how the strength of the Royal Navy and the Royal Fleet Auxiliary service have changed since 2010.

Royal Navy Capability	Number 2023	Number 2010	Royal Navy Auxiliary Capability	Number 2023	Number 2010
ROYAL NAVY SUBMARINES	10	11	Fleet	13	14
Ballistic Nuclear Submarines	4	4	Fleet tanker	6	6
Nuclear submarine	6	7	Fleet replenishment ship	1	2
Nuclear submarine in build	2	4	Landing ship dock	3	4
ROYAL NAVY SURFACE FLEET	59	71	Primary casualty ship	1	1
Aircraft carriers	2	2	Forward repair ship	0	1
Landing platform dock	2	3	Mine hunter	1	0
Destroyers	6	6	Multi role surveillance	1	0
Frigates	12	17	Ministry of Defence, 21 September 2023		
Mine counter measures ships	9	16	<p><b>“We are growing the navy for the first time since the end of the second world war with 16 ships and submarines on order or in build,”</b></p> <p><i>First Sea Lord , 13 September 2023</i></p>		
Inshore patrol vessels	16	18			
Offshore patrol vessels	6	4			
Ice patrol vessel	1	1			
Survey ships	3	4			
Ministry of Defence, 21 September 2023					

## THE DEFENCE EQUIPMENT PLAN 2022-2032

Issued in December 2022, the Plan says the Royal Navy Command plan to spend £41.1 billion in the Equipment Plan over the next ten years compared to £38.1 billion at the end of the previous planning period. This will increase the capability and size of the Royal Navy's surface fleet through procurement of:

3 Fleet Solid Support Ships	1 Multi-Role Ocean Surveillance ship
1 Multi-Role Support Ship	8 Type 26 frigates
5 Type 31 frigate and	Type 32 frigates

The Government have also committed to a once-in-two-generations programme to modernise UK's nuclear forces. The Defence Nuclear Organisation (DNO) is responsible for: procurement and disposal of all the UK's submarines, through the Submarine Delivery Agency; and nuclear warheads and Trident missiles for the UK's nuclear deterrent. DNO plans to spend **£59.7 billion** in the Equipment Plan over the next ten years compared to £58.1 billion at the end of the previous planning period.

Outside the shipbuilding pipeline, Navy Command is delivering a number of system and equipment programmes, including the Defence Equipment Plan 2022 Defence Equipment Plan 2022 27 transition from crewed to autonomous Mine Hunting Capability (the MHC programme), and the Maritime Electronic Warfare Programme.

This represents £100.7 billion in new naval capability.

## SUPPLY CHAINS – SUPPORTING “A NATIONAL ENDEAVOUR”

The industrial and social impact of the UK’s Dreadnought programme reaches out beyond the BAE SYSTEMS Barrow-in-Furness shipyard and its sister sites in Surrey, Dorset and Gloucestershire to embrace UK and some specialist overseas based companies supplying equipment, materials, nuclear propulsion, weapons and sonar systems equipment.

**This supply chain includes capability across the UK such as:**

- Submarine structures, power systems and sensors from the North West;
- Gearboxes and steel from Yorkshire;
- Nuclear steam raising plant and mechanical handling systems from the East Midlands;
- Engines from the West Midlands;
- Command and control systems from London;
- Electrical systems, antenna systems and control panels from the South East;
- Sonar and communications equipment from the South West;
- Connectors, Periscopes and hydraulic systems from Scotland

*The page opposite illustrates how this could look...*



In turn companies such as McTaggart Scott south of Edinburgh have their own nationwide supply chains

Locally it supports site facilities management administration, port services, diving and air operations..

At Barrow and in Furness a cluster of companies has set up bases to offer a local sustained presence supporting submarine build. They include Allan Webb Ltd, Ametek, Anixter, Cap Gemini, Gleeds, Jacobs, L3-Mapps, Northrop Grumman Sperry Marine, Rolls-Royce and Morgan Sindall. Most are located In Barrow at Craven House, on Furness Business Park or at Sandscale Park.

Local firms such as Ardent Safety, Athena-PTS, Carrs, Edmundson Electrical, Furness Plastics, Furness Winding, Leck Construction, Furness Plastics, Handmark Engineering, Optech Fibres, PPS, SN Group and Furness College with University of Cumbria offer specialist support





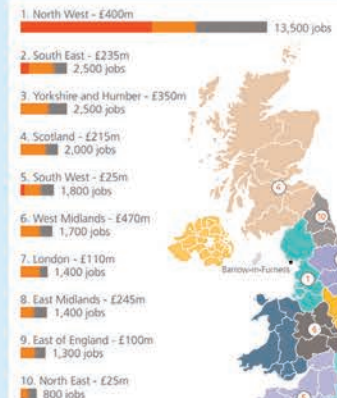
# THE UK SUBMARINE INDUSTRIAL BASE - DELIVERING THE UNITED KINGDOM'S NATIONAL SECURITY & PROSPERITY

## A National Endeavour and the SSN AUKUS Nuclear Submarine pathway

By the end of this year (2023), Barrow Shipyard's workforce will grow to **12,500**, including around new 900 apprentices and graduates. The business plans to recruit an additional **2,700** people next year, which will include a further 900 apprentices and graduates providing a significant employment boost for the region.



**THE AUKUS NUCLEAR-POWERED SUBMARINE PATHWAY**  
A PARTNERSHIP FOR THE FUTURE



### Delivering Dreadnought



### Delivering SSN-AUKUS



### Delivering ASTUTE



**Keep Our Future Afloat Secretariat. Tel 07836254721 [www.navalshipbuilding.co.uk](http://www.navalshipbuilding.co.uk)**

## SKILLS AND JOB IMPACT

On 30 January 2023 the Secretary of State for Defence set the scene for skills growth in Barrow saying,

*“Let me give the hon. Gentleman some indication of this: we are already increasing the number of jobs in Barrow, from 10,000 people to 17,000, in order to fulfil both the Dreadnought programme—the nuclear deterrent—and the next generation of Britain’s attack submarines. Barrow-in-Furness, Devonport and Faslane are key components in delivering our nuclear submarine capability and can almost not be replicated around the world. It is very important that we recognise our speciality and skills.”*

Hansard vol 727 col 3, 30 January 2023



The industrial base is dependent on a large volume of STEM (Science, Technology, Engineering, and Mathematics) and nuclear skills.

A continuous programme of work is required to preserve and practise these skills. The same principle applies to sustaining the MOD’s expertise in governance and oversight.

These new skills add to the BAE Systems engineers across 40 disciplines involved in delivering the next phase of the Dreadnought programme, including: - Naval architecture; - Marine engineering; - Structural, weights and stress; - Noise and vibration; - Metallurgy and welding; - Nuclear safety and radiation shielding; - Software and systems integration and to...

The vast majority of production staff involved in constructing the submarines under the next phase of the Dreadnought programme come from the following trades: - Steel work and welding; - Mechanical fitting; - Electrical fitting; - Pipe fabrication and fitting; - Rigging - shipwrights.

### SUBMARINE SKILLS ACADEMY

**A £25 million investment in the state-of-the-art Submarines Academy for Skills and Knowledge (SASK) is driving future talent programmes and provide life-long learning opportunities for our workforce. The facility boasts 10 workshops, 30 classrooms and a virtual reality suite.**

### PORTLAND WALK FACILITY

**The former Debenhams, WH Smith and Body Care parts of the Portland walk shopping centre are being transformed into an accessible learning facility.**

Throughout the Dreadnought programme BAE SYSTEMS will continue investing in its talent pipeline and creating exciting career opportunities for young people in the North West. It currently has well over 800 apprentices and more than 70 graduates, representing around one in ten of the Submarines workforce and an annual investment of approximately £30m.

1 August 2023 saw the launch of the Nuclear Skills Academy. At the launch its new leader said;

*“The UK’s nuclear industry is crucial for Britain’s military capabilities. Our Vanguard and Astute submarines, and from the early 2030s the new Dreadnought Class, use nuclear technology, keeping the nation safe every minute of every day.*

*The creation of the UK’s next generation nuclear-powered submarines under the AUKUS partnership will see the creation of thousands of UK jobs, and all the nuclear reactors for the UK and Australian SSN-AUKUS submarines will be made in Derby”.*

### UNIVERSITY CAMPUS

**A new university campus is being built next to the SASK facility. It will specialise in delivering manufacturing degrees.**

Anticipated student population of 1400 learners per year at full capacity.





## DISCOVER BARROW AND FURNESS - A great place to live and work

**Furness is a good place to set up or expand an business and to bring up a family.**

There are investment sites on business parks in Barrow, Dalton, Lindal and Ulverston, Managed business centres at 13 locations and offices in town centres and rural locations.

In Ulverston the repurposing of the GSK site offers scope for life science and advanced manufacturing, there is land in Dalton and at Barrow the Waterfront Business Park, the ABP port area, Sowerby Woods Business Park and Furness Business Park. International companies include Acrastyle, Ametek, BAE Systems, Bender UK, Centrica, GSK, Harbour Energy, Kimberly Clark, L3- Mapps, Great Oceans, One Subsea, Orsted, Rolls Royce, Siemens Energy, Spirit Energy, Vattenfall.



### SERVE GLOBAL MARKETS

**Furness is a hub for companies servicing the needs of a global customer base.** Businesses use gateway airports and international freight terminals at Manchester, Liverpool and Prestwick. The port of Barrow operated by ABP has ro-ro facilities as do the ports of Liverpool and Heysham.

Walney Airport operated by BAE Systems enables national and international direct air travel from the Furness area.

Export documentation assistance is available through Cumbria Chamber of Commerce.

Entrepreneurs thrive in South Cumbria.

### LIFE- LONG LEARNING

Companies choose Furness to access diverse world class skills and learning facilities at the University of Cumbria Furness College, in 2 Sixth Forms, 7 secondary schools in Barrow, Dalton, Ulverston, Millom, Coniston and Cartmel, at 46 primary schools or in nearby schools in Kendal Milnthorpe, Carnforth, Sedbergh Lancaster/Morecambe. There is added support from the Furness Education and Skills Partnership and Cumbria Carers Hub.

### AFFORDABLE HOMES

There is a choice of affordable homes in towns, villages inland or on the coast across South Cumbria accessible by road via the A590, A595, A5087 or daily Stagecoach or Blueworks bus and Northern Rail services.

Detached and semi detached homes, bungalows and terraced houses can be rented or purchased.

### HEALTHCARE

A comprehensive range of high quality healthcare is provided through University Hospitals Trust's Furness General Hospital regional specialist hospitals and local GP Practices

Furness General Hospital provides a full accident and emergency service, has a helicopter landing pad

A Lancashire and South Cumbria New Hospitals investment programme is set to deliver major improvements to services at the hospital.





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