

# ENERGY GATEWAY NORTH EAST ENGLAND

invest | north east  
england



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## NORTH EAST ENGLAND - A GATEWAY TO GLOBAL MARKET OPPORTUNITIES

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From A+P Tyne, Smulders Projects UK, Bridon International, JDR Cables and Royal IHC, you'll find many of the big names in the offshore energy sector call North East England their home.

Why? Because this region is of strategic importance to companies in the offshore energy sector – it's a gateway - not only to the North Sea and beyond but to a wealth of experience, knowledge and industry networks.

With centuries of maritime and engineering heritage coupled with a thirst for technological innovation, North East England has been pioneering advances in the offshore energy sector for decades and, with its three ports on the Rivers Blyth, Tyne and Wear teeming with prime quayside development opportunities and facilities, it's easy to see why more and more companies are choosing to make this corner of England their gateway to the North Sea offshore energy market.



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## WHAT MAKES ENERGY GATEWAY NORTH EAST ENGLAND RIGHT FOR YOU?

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With over 7km of quay next to deep water, over 400ha of key riverside development land across 30 sites and a buoyant supply chain and business cluster, companies have everything they need when looking to access key North Sea oil, gas and offshore wind market opportunities.

This is all backed up with a fantastic array of world-class R&D and testing facilities, a skilled workforce, a highly competitive cost base, and excellent transport infrastructure.

**Energy Gateway North East England works for the offshore energy sector.**

**3**   
rivers

**3**   
ports

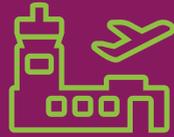
**7**   
km

of quay next to deep water

**400**   
ha  
development land



Centuries of maritime and  
engineering heritage



International Airport

**100s**   
of supply chain  
companies

**30**   
development sites  
many with enterprise zone status



National Energy  
R&D Centre of Excellence

**5**   
universities



## WHY INVEST IN ENERGY GATEWAY NORTH EAST ENGLAND?

Exceptional market access to developments in the North Sea basin for both the oil and gas fields and the wind farm developments at Dogger Bank, Hornsea and Firth of Forth

Major opportunities for innovation and collaboration with the world-leading cluster of subsea engineering companies and the wider offshore energy supply chain

Availability of a highly skilled, available workforce - half of our region's employment in the energy sector is in engineering and technical consulting

A pipeline of new talent, our region has over 51,000 STEM university students

A well-connected gateway; three ports, an international airport, exceptional national rail and road networks plus the largest rapid transit system outside London, the Tyne and Wear Metro, ensure access to national and international markets

A superb portfolio of high quality industrial development sites (over 400 ha is total), all with easy access to deep water ports and many with Enterprise Zone benefits such as enhanced capital allowances for investment in plant and machinery

Engineering innovation, skills and quality manufacturing - over 70% of all North Sea Oil & Gas platforms were built in the North East of England

Access to world-class R+D and testing facilities such as the Offshore Renewable Energy Catapult Testing facility, and the Tyne Subsea, a national centre for offshore and subsea engineering research and testing

Energy Gateway North East England provides exceptional value to any investor, it is a comparatively low cost base for wages and property compared to other key centres

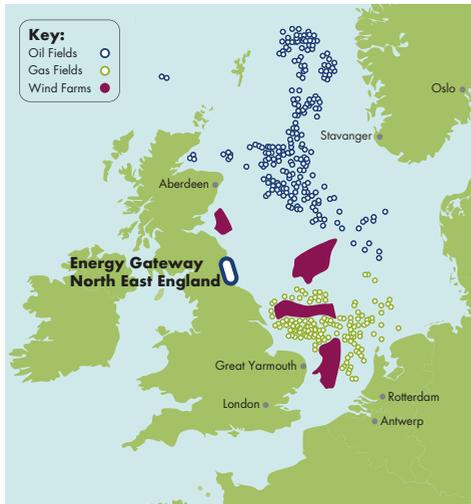
A booming business and supply chain cluster, registering over a 60% growth in the number of energy-related companies over the past seven years.

# KEY BENEFITS

## Access to markets

Energy Gateway North East England is located strategically on the UK's eastern seaboard, midway between Aberdeen and Great Yarmouth.

It has exceptional market access to developments happening in the North Sea basin for both the oil and gas fields and the wind farm developments at Dogger Bank, Hornsea and Firth of Forth.



## Incentives

### Enterprise Zones

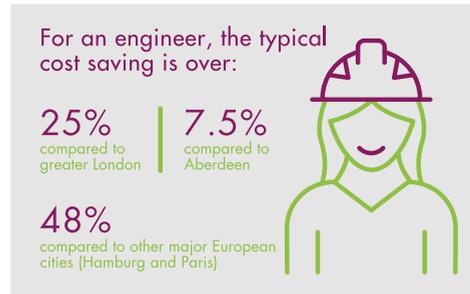
Many of the sites suitable for offshore energy businesses in Energy Gateway benefit from Enterprise Zone status.

### Business Grants and loan funding

We can talk you through the latest availability of business grants and loan funding for investments into Energy Gateway.

## Excellent returns on investment

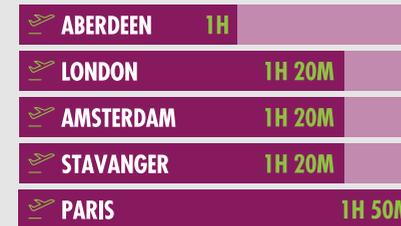
Energy Gateway North East England provides exceptional value to investors. Wages and property costs are comparatively low compared to other key energy clusters in the UK and internationally. Financial Times Benchmarking Studies demonstrate that:



## Connectivity

### Air

Newcastle International Airport is at the heart of our region and offers frequent, daily flights to London, Amsterdam, Paris and Dubai.



### Road

The A1 (M) connects Energy Gateway North East England to the entire UK motorway network.



### Rail

Excellent links to the UK high speed rail network including half-hourly rail services linking Newcastle Central to London Kings Cross in less than three hours and to Edinburgh in 90 minutes. In addition, the Tyne and Wear metro system is the largest rapid transport system in the UK outside of London.



### Sea

Energy Gateway North East England is home to three main ports – Port of Tyne, Port of Sunderland and Port of Blyth.



# KEY BENEFITS

## Leading Research and Innovation

The North East of England has always been known for cutting edge innovation in marine engineering and offshore energy.

It is leading the world in developing innovative solutions to overcome the issues when exploiting new oil, gas and offshore wind resources in ever more challenging environments.

Strengths lie in the development of new technology in subsea engineering in areas such as new cables, umbilicals, flexible pipes, ROVs, subsea ploughs and tractors.

## Companies located in Energy Gateway North East England

A&P

Baker Hughes

Barrier Group

Bel Valves

Bibby Offshore

Bridon

Deepocean

EDF Energy Renewables

Global Marine

IHC

JDR

NOV

Osbit

Siemens Energy

SMD

Smulders

Technip

Tekmar

Vattenfall

Wood Group

These and others also make use of the world-leading R+D and testing assets located in Energy Gateway North East England.

These include:

## Offshore Renewable Energy Catapult

The UK's flagship renewable energy technology innovation and research centre is located at Blyth, offering the most comprehensive open access and independent test and research facilities anywhere in the world.

## Tyne Subsea

Tyne Subsea brings together industry and academia to create a world-class national centre for offshore and subsea engineering research and testing. Its six hyperbaric chambers and environmental test facilities are capable of testing technologies and materials at temperatures and pressures equivalent to those found at the very deepest ocean depths – up to 6,000m.

## Centre of Excellence for Marine Hydrodynamics, Coatings and Materials

Part of Newcastle University, the facility includes a newly refurbished Emerson Cavitation Tunnel, an experimental facility used to test propellers and turbine blades, the only one of its kind in the UK.

## Marine Testing Facility (Dry Dock)

Located at Neptune Energy Park, the facility is a 218m x 32m x 11m deep dry dock which is available for a range of projects including sub sea test and demonstration, engineering, fabrication, research & development and large scale construction projects.

## Well-established supply chain

Energy Gateway North East England benefits from an impressive, well-established engineering cluster and supply chain operating in all the key offshore energy sectors. Companies span all key areas including R&D, engineering design and project management, major fabrication, installation and decommissioning, and operations and maintenance facilities and services.

## Depth and breadth across the energy workforce

A highly skilled talent pool of workers makes North East England a prime location for investors. There are over 28,000 employees in the energy sector, with skills extending from fabrication to engineering expertise.

The region's five universities are critical partners in the offshore energy sector supplying a pipeline of new talent as well as providing world-class R&D expertise.

North East universities are leading the way in research and technology expertise in a vast range of relevant fields such as marine engineering, design technology, offshore wind engineering, data analytics, and energy efficiency.

In addition, our colleges provide bespoke training for tomorrow's energy workforce.

These include:

- Northumberland College's Wind Turbine Technical Training Centre at the Port of Blyth. The Centre provides access to a 27m high climbing tower for 'working at height', training technicians in servicing and maintaining wind turbines.

- Newcastle College's Energy Academy offers qualifications up to degree level in energy technology, manufacturing, maintenance and apprenticeships.
- South Shields Marine School has a worldwide reputation for outstanding maritime training.

This training excellence is enhanced by a number of world-renowned private sector training providers, including Maersk Training and AIS Training, having significant facilities in the area.



# DEVELOPMENT OPPORTUNITIES ON THE RIVER BLYTH



1. Bates and Wimbourne	
Quay Length (m)	360m in total
Site Size (ha)	15 ha
Development Land Size (ha)	6 ha (EZ)
LOA (m)	180m
Beam (m)	55m
Current Draft (LAT) (m)	8m
General load capacity (t/m2)	Up to 10t/m2
Heavy lift capacity (tonnes)	25t/m2

2. Battleship Wharf	
Quay Length (m)	445m in total
Site Size (ha)	19 ha
Development Land Size (ha)	6 ha (EZ)
LOA (m)	200m
Beam (m)	55m
Current Draft (LAT) (m)	9m
General load capacity (t/m2)	Up to 10t/m2
Heavy lift capacity (tonnes)	25t/m2

3. Commissioners Quay	
Quay Length (m)	300m
Site Size (ha)	2.1 ha (EZ)
LOA (m)	100m
Beam (m)	25m
Current Draft (LAT) (m)	6m
General load capacity (t/m2)	2t/m2
Heavy lift capacity (tonnes)	N/A

4. Dun Cow Quay	
Quay Length (m)	220m
Site Size (ha)	0.38 ha (EZ)
LOA (m)	150m
Beam (m)	30m
Current Draft (LAT) (m)	7.5m
General load capacity (t/m2)	2t/m2
Heavy lift capacity (tonnes)	N/A

5. Northumberland Energy Park – Phase 1	
Quay Length (m)	160m
Site Size (ha)	36HAincluding11.13HAEnterpriseZone
Development Land Size (ha)	24HAincluding11.13HAEnterpriseZone
LOA (m)	Max 160m
Beam (m)	Max 50m
Current Draft (LAT) (m)	Max 9.0 LAT
General load capacity (t/m2)	10T/m2
Heavy lift capacity (tonnes)	400 tonnes

6. Northumberland Energy Park – Phase 2	
Quay Length (m)	160m
Site Size (ha)	35HA
Development Land Size (ha)	20 HA
LOA (m)	Max 160m
Beam (m)	Max 50m
Current Draft (LAT) (m)	Max 9.0 LAT
General load capacity (t/m2)	10T/m2
Heavy lift capacity (tonnes)	400 tonnes

7. Northumberland Energy Park – Phase 3	
Quay Length (m)	160m
Site Size (ha)	95 HA
Development Land Size (ha)	95 HA
LOA (m)	Max 160m
Beam (m)	Max 50m
Current Draft (LAT) (m)	Max 9.0 LAT
General load capacity (t/m2)	10T/m2
Heavy lift capacity (tonnes)	400 tonnes

8. South Harbour	
Quay Length (m)	345m
Site Size (ha)	20 ha
Development Land Size (ha)	2 ha
LOA (m)	180m
Beam (m)	55m
Current Draft (LAT) (m)	8.5 m
General load capacity (t/m2)	Up to 10t/m2
Heavy lift capacity (tonnes)	25t/m2

# DEVELOPMENT OPPORTUNITIES ON THE RIVER TYNE



## 1. A + P Tyne

Location	South Tyneside
Quay Length (m)	350m+
Site Size (ha)	6 ha (EZ)
LOA (m)	26 ha
Beam (m)	40m
Current Draft (LAT) (m)	8.5m
General load capacity (t/m <sup>2</sup> )	10T/m <sup>2</sup>
Heavy lift capacity (tonnes)	6 Cranes Total load cap 308 tonnes Total max outreach 25800m

## 2. Whitehill Point and Quay

Location	North Tyneside
Quay Length (m)	105m
Site Size (ha)	10 ha
Development Land Size (ha)	10 ha
LOA (m)	215m (up to 250m with investment)
Beam (m)	50m
Current Draft (LAT) (m)	8.6m (up to 12m with investment)
General load capacity (t/m <sup>2</sup> )	250 ton / m <sup>2</sup>

## 3. Neptune Energy Park

Location	Newcastle
Quay Length (m)	767 m
Site Size (ha)	3.0 ha (Operational Quayside)
Development Land Size (ha)	8.0 ha
LOA (m)	230m
Beam (m)	50m
Current Draft (LAT) (m)	Aim to maintain 9.0m below chart datum
General load capacity (t/m <sup>2</sup> )	Min 100t/m <sup>2</sup> to generate ground bearing Heavy load out platform has max load bearing of 61.4/m <sup>2</sup>

## 4. Offshore Technology Park

Location	Newcastle
Quay Length (m)	750 m
Site Size (ha)	2.5 ha (Operational Quayside)
Development Land Size (ha)	> 1.5 ha (former Lloyds British Site)
LOA (m)	640m
Beam (m)	50m
Current Draft (LAT) (m)	Aim to maintain 8m below chart datum
General load capacity (t/m <sup>2</sup> )	7.0t/m <sup>2</sup> HLP (590t max load capacity) General site ground bearing ranging from 2.5-19.7t/m <sup>2</sup> .
Heavy lift capacity (tonnes)	Dockside crane age upto 325t SWL @ 24.25m

## 5. Swans Offshore Energy Park

Location	North Tyneside
Quay Length (m)	400m River Frontage 210m at 9.1m dredge, 190m at 7.5m dredge
Site Size (ha)	16 ha
LOA (m)	220m
Beam (m)	40m
Current Draft (LAT) (m)	9m
General load capacity (t/m <sup>2</sup> )	Steel Quay has load capacity of 10t/m <sup>2</sup>

## 6. Tyne Dock Enterprise Park

Location	South Tyneside
Quay Length (m)	170m
Site Size (ha)	7.1 ha
LOA (m)	250m
Beam (m)	50m
Current Draft (LAT) (m)	6m

## 7. Royal Quays Enterprise Zone

Location	North Tyneside
Site Size (ha)	30ha
Development Land Size (ha)	30ha

## 8. Hadrian Yard

Location	North Tyneside
Quay Length (m)	495m
Site Size (ha)	27 ha
LOA (m)	305m
Beam (m)	58m
Current Draft (LAT) (m)	8.5m

## 9. South Tyneside Estate

Location	South Tyneside
Quay Length (m)	Total quay length – 1,375 m
Development Land Size (ha)	N/A
LOA (m)	Riverside Quay – 875 m Tyne Container Terminal – included above Tyne Bulk Terminal – included above Tyne Car Terminal No 1 Berth – 230m Tyne Car Terminal No 2 Berth – 160m Tyne Car Terminal No 3 Berth – 110m
Beam (m)	Riverside Quay – 40 m Tyne Container Terminal – 40m Tyne Bulk Terminal – 40m Tyne Car Terminal No 1 Berth – 50m Tyne Car Terminal No 2 Berth – 40m Tyne Car Terminal No 3 Berth – 34m
Current Draft (LAT) (m)	Riverside Quay – 12.1m Tyne Container Terminal – 12.1m Tyne Bulk Terminal – 13m Tyne Car Terminal No 1 Berth – 10m Tyne Car Terminal No 2 Berth – 7m Tyne Car Terminal No 3 Berth – 7m
General load capacity (t/m <sup>2</sup> )	Riverside Quay – 5-10 t/m <sup>2</sup> Tyne Container Terminal – 5 t/m <sup>2</sup> Tyne Bulk Terminal – 10 t/m <sup>2</sup> Tyne Car Terminal No 1 Berth – 80t max vehicle weight Tyne Car Terminal No 2 Berth – 80t max vehicle weight Tyne Car Terminal No 3 Berth – 24t max vehicle weight
Heavy lift capacity (tonnes)	Riverside Quay Tyne Container Terminal Tyne Bulk Terminal Tyne Car Terminal No 1 Berth – n/a Tyne Car Terminal No 2 Berth – n/a Tyne Car Terminal No 3 Berth – n/a

# DEVELOPMENT OPPORTUNITIES ON THE RIVER WEAR



1. Hudson and Hendon Docks	
Location	Sunderland
Quay Length (m)	1095m Hudson Dock – 710m Hendon Dock – 385m
Site Size (ha)	50ha-Hudson Dock-16ha-Hendon Dock 4ha
Development Land Size (ha)	50 ha
LOA (m)	141.9 m
Beam (m)	18.9m
Current Draft (LAT) (m)	7m
General load capacity (t/m2)	5te/m2
Heavy lift capacity (tonnes)	Portowned-HarbourMobileCranewith 121tonneliftingcapacityPotentialto be augmented during 2018



2. Greenwells Quay	
Location	Sunderland
Quay Length (m)	220m
Site Size (ha)	3.5 ha
Development Land Size (ha)	2.0
LOA (m)	160m
Beam (m)	38m
Current Draft (LAT) (m)	6.0m
General load capacity (t/m2)	10te/m2
Heavy lift capacity (tonnes)	Portowned-HarbourMobileCranewith 121tonneliftingcapacityPotentialto be augmented during 2018



3. Corporation Quay	
Location	Sunderland
Quay Length (m)	3.0 ha
Site Size (ha)	3.0 ha
Development Land Size (ha)	1.5 ha
LOA (m)	200m
Beam (m)	35m
Current Draft (LAT) (m)	8.5m
General load capacity (t/m2)	5te/m2onthequay10te/m2adjacent
Heavy lift capacity (tonnes)	Portowned-HarbourMobileCranewith 121tonneliftingcapacityPotentialto be augmented during 2018

# THE THREE PORTS

## Port of Blyth

### Overview

The fastest growing trust port in the UK, Port of Blyth has developed a significant reputation in the offshore energy sector, both in the UK and overseas.

This is due to the existence of easily accessible deep-water facilities, land availability, highly skilled workforces and a supply chain that is able to compete with the rest of the world by way of innovation, experience and ability to deliver.

The Port's core competencies in safely delivering project support for complex mobilisation and demobilisation activities, handling multi-million pound subsea equipment, plant and product on a daily basis, are widely recognised.

Blyth is a trusted partner of many of the world's largest offshore vessel operators and installation companies, several of which have made the Port their permanent base from which to operate which in itself brings widespread opportunities for further investment, training and technology development to meet the demands of the global market.

### Port facts

<b>Number of Berths</b>	9 x deep-water across 5 main terminals	2 x Ro-Ro / 1 x jack-up ready berth under construction
<b>Total Operational Quays</b>	1.5km	9-9.5m draught
<b>Warehousing</b>	65,000 square metres	1200 square meters under construction
<b>Maximum Vessel Dimensions</b>	200m LOA 50m beam	35,000 DWT
<b>Load over quayside</b>	Heavy load quays at 10 tonnes per square meter	3,000 tonnes individual piece
<b>Bunkering Facilities</b>	Marine Fuels Terminal operated by Geos	Fresh water
<b>Land Availability</b>	40 hectares of quayside land in development with Enterprise Zone Status	£30m capital investment programme across two major sites
<b>Engineering Supply Chain / supporting services</b>	Extensive fabrication, design, welding and lifting/testing services on site	40 bed hotel with restaurant on site



# THE THREE PORTS

## Port of Sunderland

### Overview

Situated on the south side of the River Wear, the Port of Sunderland has recently celebrated a 300th year anniversary. The Port is municipally owned allowing for long term decision making in its approach to facilitating the ever growing market opportunities that it is attracting to Wearside.

The Port boasts some impressive port infrastructure and associated services to cater for the supply chain requirements of both the region's industrial hinterland and also those from the oil, gas and expanding offshore renewable market sectors.

These now include a truly multi-modal materials handling operation thanks to the reintroduction of rail operations to the Port and two sites approved with Enterprise Zone status to incentivise inward investment opportunities.

The opening of the third River Wear crossing further enhances road connectivity to and from the Port, whose proximity to the International Advanced Manufacturing Park, will provide a further demand for its multi-modal facilities.

### Port facts

<b>Number of Berths</b>	13
<b>Number of Ro-Ro Berths</b>	1
<b>Length of Quays</b>	1650 metres
<b>Warehousing</b>	19000 square metres
<b>Max Vessel Dimensions</b>	200 metres - length 40 metres – breadth 8.5 metres - draft
<b>Heaviest Load Over Quayside</b>	450 tonnes (larger on application)



# THE THREE PORTS

## Port of Tyne

### Overview

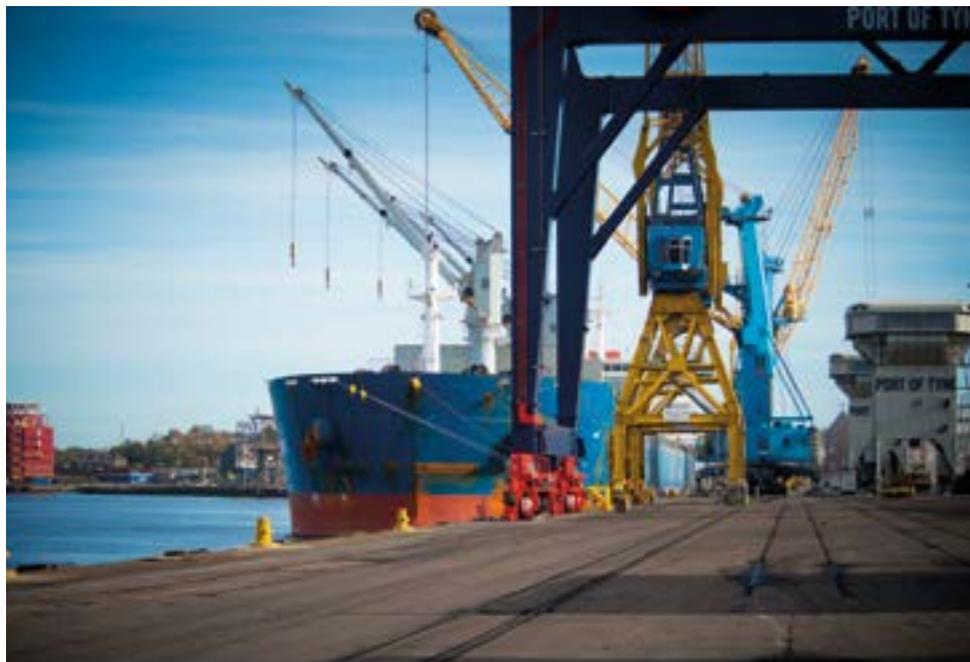
The Port of Tyne is one of the UK's major deep-sea ports – a vital trading gateway to world-wide markets.

From its prime location, the Port provides excellent shipping connections near the A19, Tyne Tunnel and onsite direct rail access to the East Coast mainline.

Offering unrivalled agility, security and flexibility, the Port of Tyne can immediately benefit manufacturers with a fully integrated mature logistics infrastructure combining heavy lift cranes, road and rail connectivity.

With its diverse property portfolio the Port offers industrial space and development potential. Only 96 nautical miles from Dogger Bank, the Port is ideally placed to become a major hub for the offshore energy sector with experience in handling loadouts, layby, crew change and other activities.

The Port supports an existing offshore cluster with a healthy manufacturing base located on the River Tyne, comprising research institutes and centres of excellence for the testing and commercialisation of offshore renewable technology and skilled heavy engineering.



### Port facts

	LOA	Beam	Draft	Quay capacity (weight)
Riverside Quay	875m	40m	12.1m	5 - 10te/m2
Tyne Container Terminal	(875m)	(40m)	(12.1m)	5te/m2
Tyne Bulk Terminal	(875m)	(40m)	13m	10te/m2
Northumbrian Quay	335m	N/A	9m	1 - 1.5te/m2
Whitehill Point	105m between dolphins vessels up to 215m	N/A	8.6m	3te/m2
Ro/Ro No 3 (International Passenger Terminal)	N/A	N/A	7.1m	1.5te/m2
Ro/Ro No 4 (International Passenger Terminal)	N/A	N/A	7.5m	2.5te/m2
Tyne Car Terminal No 1 berth	230m	50m	10m	80t max vehicle weight
Tyne Car Terminal No 2 berth	160m	40m	7m	80t max vehicle weight
Tyne Car Terminal No 3 berth	110m	34m	7m	25t max vehicle weight
Tyne Dock Enterprise Park	555m*		6m*	X*

\*Confirmed on enquiry

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## INVESTMENT OPPORTUNITIES

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**North East England offers a compelling set of opportunities for developers, investors and end users.**

We are the English region with the greatest capacity for growth - boasting a wealth of natural assets and resources; plentiful office accommodation and industrial space; available development sites; a skilled workforce and a quality of life envied across the rest of the UK.

### Property/Land Search

Our commercial property, land and enterprise zone database brings together strategic commercial property and land available to buy and rent across the North East of England, helping you find the perfect location for your business.

Take a look at [property.investnortheastengland.co.uk](http://property.investnortheastengland.co.uk)



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## ABOUT INVEST NORTH EAST ENGLAND

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**Invest North East England provides a single point of contact for companies looking to invest in the region.**

Our highly experienced team opens the door for investors to North East England's network of specialist organisations and individuals with the information, support and advice essential to any investment decision.

We're here to do the hard work for you. We'll give you the facts and figures; introduce you to the support services you need and help you make your investment happen.

Knowledgeable and dedicated, our team has built an extensive partnership network of Local Authorities, support agencies, sector specialists, universities, colleges, knowledge networks and business organisations throughout the region and we're able to provide the latest information on the availability of national and regional financial support packages.

Invest North East England supports investors with a whole range of practical relocation support and advice including:

*A 'Soft Landing' package of accommodation, professional services and access to business networks to support your relocation or expansion*

*Advice on availability of land/property and costs*

*Information and statistics on the local economy, demographics, infrastructure and labour market*

*Organising visits to the region and meetings with key stakeholders*

*Guidance on the availability of financial assistance and grants*

*HR support, including wage comparisons, training, recruitment and local market information*

*Introductions to supply chain knowledge networks and technological expertise*

*Personal Account Manager dedicated to your project.*





# ENERGY GATEWAY NORTH EAST ENGLAND

Contact us today to see how  
we can help your business:

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