

THE HUMBER: UK'S ENERGY ESTUARY

Our Energy

WE ARE A VITAL ENERGY PROVIDER IN THE UK

We import **1/3** of the UK's coal and a significant amount of biomass

Which fuels our power stations to produce **17%** of the UK's electricity

We land **1/5** of the UK's natural gas

We refine **1/3** of the UK's fuel

3 of the world's largest wind farms are on our doorstep and form some of the largest engineering projects in the world

We are **No 1** in the UK for biofuel production

Hold on to your hats! Our region's 20+ onshore wind farms provide power for over **200,000** UK homes.

Conscientious carbon capture! CO₂ emissions from the energy-intensive industries around the Humber will be captured, safely transported, then stored in depleted gas fields in the North Sea.

More than just a pinch of salt! At **SSE** at Atwick you'll find gas-storage caverns a mile underground. The caverns are hollowed out of a huge salt-deposit stretching from here to Denmark.

The scale of our energy means demand is high for engineering support and top talent. We've already welcomed investments from **CLS OFFSHORE, WALDECK ENGINEERING, SPENCER GROUP, ERIKS and COFELY FABRICOM GDF SUEZ.**

Our helicopters make **70,000** passenger journeys to the North Sea each year, carrying everyone from drillers to riggers to divers to engineers to stewards to medics to mechanics...

£7bn

(and counting) has been invested in Offshore Wind Farms off the Humber already.

We import more of the UK's softwood than any other port - so the UK's builders can keep building homes.

Got a new motor? Chances are it came in via Humber Port. We're the busiest car trading port in the UK.

Hidden connections... **LANGELED** is one of the world's longest undersea gas pipelines, bringing 20% of the UK's gas demand from Norway.

On a cold day 30% of the UK's gas is landed and processed here at **GASSCO, CENTRICA and PERENCO** and distributed throughout the UK.

Our marine engineers, including **RIX SHIPPING**, have invested over **£50m** in locally built state of the art offshore support vessels.

ROUGH is the UK's biggest gas storage facility meeting approx 10% of UK's peak day demand. The storage is built into the continental shelf, 9,000 feet under the bed of the North Sea.

And here's another way we help keep the UK's lights on... **1/3** of the UK's coal and now sustainable biomass comes in through the Humber to make energy.

The pioneering **WHITE ROSE POWER-STATION** will be on the front line of the battle against global warming. Its CO₂ emissions will be captured and stored in depleted gas fields beneath the North Sea, in the UK's first commercial-scale carbon capture project.

At **DRAX**, we are the UK's largest single producer of electricity. We are transforming into a predominantly biomass-fuelled plant - bringing new opportunities for engineering, demand for more energy crops and attracting investment to bring in biomass from overseas.

Hello to **REGRO** - pioneering energy crops for power stations around the UK.

Is there life on Mars? At the **UNIVERSITY OF HULL**, our maritime expertise isn't just driving brilliant solutions for logistics, law, offshore wind, wave and tidal energy. We're also researching water flows on Mars.

Our **REAL VENTURES** biomass plant will produce green electricity for **90,000** HOMES. We're building another one just like it at Immingham.

Home of BAE Systems' Hawk fighter training aircraft, the new **HUMBER ENTERPRISE PARK** is attracting even more advanced engineering businesses.

Our groundbreaking Energy Works green power plant will power **25,000** HOMES, a UK first!

Hull, UK City of Culture 2017

A big hello to the **1 million** ferry passengers coming through the **PORT OF HULL** every year!

PORT OF HULL

At **GREEN PORT HULL SIEMENS** is creating the world's most advanced wind turbine manufacturing and assembly facilities.

PHILLIPS 66 produces enough petrol every day for an average car to make 195 round trips to the moon and is the world's leading manufacturer of high-grade petroleum coke used in aluminium and steel industries around the globe.

At **VIVERGO FUELS** we use locally grown wheat to produce around 1/2 of the UK's bioethanol demand, a greener fuel for cars. We also produce protein-rich animal feed to keep 20% of the UK's dairy herd fed and contented.

Ports operator **ABP** has invested £150m in facilities at the ports of Immingham and Hull to support **DRAX'S** conversion to burning sustainable **BIOMASS**.

PORT OF IMMINGHAM

Did you know that moving freight by rail produces **70% less** CO₂ than the equivalent journey by road? At Immingham, we handle around a quarter of all UK rail freight journeys.

ABLE MARINE ENERGY PARK allocated for wind turbine manufacturers and their supply chain.

Powering cars from pasties! **GREENERGY** is Europe's largest biofuel from waste facility, leading its field in scientific research, to manufacture biodiesel entirely from waste cooking oils and fatty acids from food manufacturers.

GLANFORD BRIGG power station can switch from natural gas to diesel generation.

Steel made at **TATA Steel Europe** is used all over the world, from the Petronas Towers in Malaysia and the T'Sing Ma Bridge in Hong Kong to wind turbines and paper clips!

At **GOOLE**, we're the UK's most inland port making us a key distribution centre, attracting investments from Tesco, Guardian Glass and E-buyer. We also handle big, abnormal loads such as turbines for onshore wind farms.

PORT OF GOOLE

TRENT PORTS

THE HUMBER'S unique combination of estuary depth and tidal flow make it a brilliant location for pioneering development of tidal stream energy generation. Plus, it looks beautiful in the sunshine.

TOTAL is the UK's third largest oil refinery.

Our Location and Connectivity

Not only do we face Northern Europe, we are midway between London and Edinburgh, making us a critical transport and logistics hub.



a **4 hour drive** gives you access to

75% of UK manufacturing

40m people

320m customers accessible across mainland Europe within 24 hours

HUMBERSIDE INTERNATIONAL AIRPORT is the UK's 2nd busiest heliport (and growing!), serving offshore energy industries and the new BAE Systems National Training academy will support RAF bases in Lincolnshire.

NIGHTEL, Dedicated accommodation facility at Humberside Airport for offshore, oil, gas and renewable energy and BAE students.

PORT OF GRIMSBY

CENTRICA, SIEMENS, RES OFFSHORE, E.ON and DONG ENERGY have already invested in operations and maintenance bases for wind farms in the North Sea.

CONOCOPHILLIPS at Theddlethorpe connects directly to the North Sea Gas fields and brings in 10% of the UK's gas requirement every single day.

bondholders promoting the Humber
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