Energy Sector

Energy Sector Overview

The Energy Sector relates to the production and

supply of energy. Renewable energy is generally

defined as energy that comes from resources which

are naturally replenished on a human timescale such

as sunlight, wind, rain, tides, and waves. Renewable

energy replaces conventional fuels in four distinct areas, electricity generation, air and water heating/



cooling, motor fuels, and rural (off-grid) energy services. The Energy Sector is very closely linked with engineering, manufacturing and ports & logistic sectors.

5.1% of employment in the number is in the energy

Examples of Key Employers in the Humber

SIEMENS

vivergofuels









DONG energy

Useful subjects

- Maths
- Engineering
- Science
- Technology

Did you know?

The Humber is leading the UK renewables sector with over £700million being invested through Siemens, Able, ABP and the development of Greenport Hull

sector

- Our regions 20+ onshore wind farms provide power for 200,000 UK homes
- 3 of the world's largest wind farms are on our doorstep and form some of the largest engineering projects in the world
- The Humber is No 1 in the UK for biofuel production
- The scale of our energy industry means demand is high for engineering support and top talent
- Building wind farms will constitute some of the largest construction projects in the world
- Turbines made in the Humber means a wider supply chain of manufacturers; repair and maintenance contractors will be located in the area which will lead to a cluster of renewable companies in the Humber
- The Humber region is home to innovative tidal and wave technology

Will there be opportunities available?

- Renewable energy is a relatively new and rapidly changing sector, generating considerable ongoing investment and development, and the current labour market is starting to reflect this
- By 2020 Yorkshire and the Humber will have11,500 offshore wind jobs, 750 onshore wind jobs and 250 wave & tidal power jobs
- The worlds biggest offshore wind farm will be built in the Humber Region creating 4,750 jobs
- The renewable energy sector will be the single biggest influence on the local economy for generations, creating thousands of new jobs along with a wealth of opportunity for local people and businesses

For further information visit:

- National Careers Service
- www.lmihumber.co.uk
- www.careersyandh.co.uk
- www.bridgingthegaphumber.co.uk
- www.gov.uk/apply-apprenticeship
- www.allaboutcareers.com
- www.euskills.co.uk
- www.greenporthull.co.uk
- www.deliveringyourfuture.co.uk
- Look in your local newspapers
- Pop in to you local Job Centre
- Check out Social Media
- And talk to family and friends



Inspire^M









"This investment forms part of the Humber LEP's European Structural and Investment Funds (ESIF) allocation"

😻 Regional Growth Fund

Planning ahead...

Entry Level

Involves building basic knowledge and skills and is not geared towards specific occupations

Level 1 Involves activities which mostly relate to everyday situations and may be linked to job **£14,000**+ competence

Level 2

Involves building knowledge and or skills in relation to an area of work or subject area appropriate for many job roles

EI7,000+

Level 3 Involves obtaining detailed knowledge and skills. It is appropriate for people wishing to go to university, working on their own or in some areas, supervising others in their field of work

EIQ,000+

Level 5

Level 4

developing others

Appropriate for people working as higher grade technicians, professionals or managers

Appropriate for people working in technical

and professional jobs, and/or managing and

Level 6 Involves the achievement of high level professional knowledge and is appropriate for people working as knowledge based professionals or in professional management

positions Level 7 Involves the achievement of high level of

professional knowledge and is appropriate for people working as knowledge based professionals or in professional management . positions

Level 8

Involves the achievement of high level professional knowledge and is appropriate for people working as knowledge based professional management positions

Traineeship Study Programme Entry level certificate Entry level Skills for Life Entry level Award, Certificate and Diploma Entry level Functional Skills Entry level Foundation Learning English for speakers of other languages (ESOL)

GCSE (grades D-G or 1-3) Traineeship Study Programme Key Skills **Skills for Life** Foundation Diploma BTEC Award, Certificate and Diploma Foundation Learning Functional Skills **OCR** National

GCSE (grades A*-C or 4-9) Intermediate Apprenticeship **Key Skills** Skills for Life **Higher Diploma** BTEC award, Certificate and Diploma **Functional Skills**

AS and A level Advanced Apprenticeship Advanced Extension Award **Cambridge International Award** International Baccalaureate **Key Skills** Advanced Diploma Progression Diploma BTEC award, Certificate and Diploma BTEC National OCR National **Cambridge National** HNC Higher Level Apprenticeship

Key Skills BTEC Professional Award, Certificate and Diploma **Certificate of higher Education**

HND

NVQ Higher Level Apprenticeship Higher Diploma BTEC Professional Award, Certificate and Diploma HNC Diploma of Higher Education(DipHE) Diploma of Further Education **Foundation Degree**

Higher Level Apprenticeship BTEC Advanced Professional Award, Certificate and Diploma Degree with Honours (BA Hons, BSc Hons) Graduate Certificate **Graduate Diploma**

BTEC Advanced Professional Award, Certificate and Diploma Fellowship and Fellowship Diploma Postgraduate Certificate Postgraduate Diploma Degree Level Apprenticeship BTEC Advanced Professional Award, Certificate and Diploma Master's degree

NVQs Vocational qualifications Doctorate **Degree Level Apprenticeship Postgraduate Certificate**

Warehouse Operative Installer Packing Scaffolder

Wind Turbine Engineer Apprentice **Service Operative Crane Operator Heat Pump** Installer Engineer Mechanical Engineer

Welder **CNC** Machinist Coordinator

Maintenance Technician Electrical/ **Pipe Fitter Solar Technician** Health & Safety Adviser Production Engineer **Graphic Design Account Manager** Rigger **Fire Safety**

Industrial Engineer Operations Manager **Project Manager**

> **Marine Engineer Renewable Energy** Designer

Good to know:

Emerging roles within this sector offer exciting jobs with good salary packages. Many require a science, technology, engineering or maths base.

