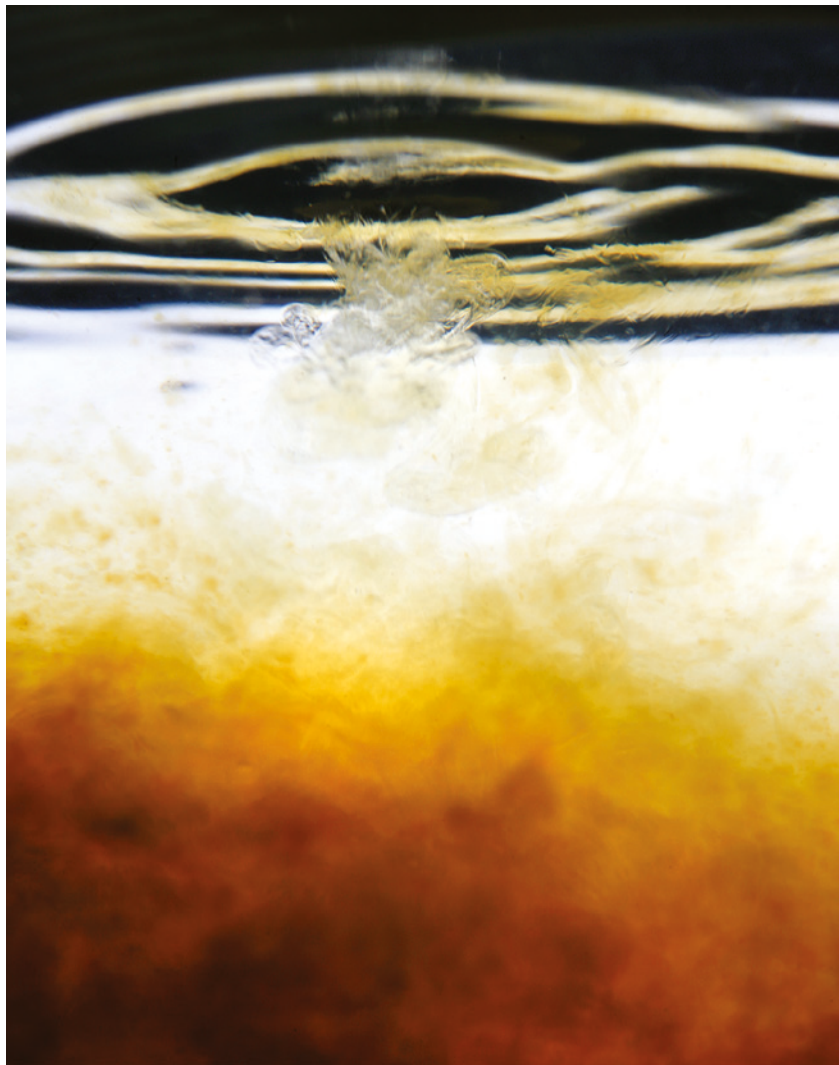


THIS IS ENERGY & ENVIRONMENT
Environmental Industries



SUSTAINABLE





THIS IS ENVIRONMENTAL INDUSTRY

We have a clear ambition in Wales, to create a sustainable, low-carbon future.

This initiative is championed by our Cabinet Secretary for the Economy & Infrastructure. In years to come, energy and the circular economy will work for the benefit of our planet, our economy and our communities.

We use a wide variety of environmental technologies and services in Wales. Our focus is on innovation, research and development in priority fields such as Energy and Waste Management, Water Treatment, Environmental Monitoring and the Built Environment.

For local businesses and inward investors, this drive towards a cleaner environment and circular economy creates significant economic opportunities. Wales is a place to develop commercially viable solutions and present them to a global audience.

Take a look at some of the work that's happening here...

WASTE AND RECYCLING

21,000 people work within the circular economy in Wales delivering a wide range of solutions.

The Welsh Government is delivering two successful infrastructure programmes, working with local authority partnerships to secure long-term sustainable waste treatment solutions. These are a food waste treatment programme, delivering anaerobic digestion facilities, and a residual waste treatment programme, delivering energy recovery solutions for the waste that cannot be recycled.

As a priority, we're diverting a number of key materials from landfill, including food waste, paper and card, plastic,

textiles, metal and wood. We are targeting reductions from key sources of waste – including construction and demolition firms and local authorities.

Welsh Government is committed to supporting our existing waste management sector. We are also exploring fresh opportunities for specialist firms beyond our borders.

Wales offers a broad range of expertise. Inward investors will find a supportive business environment, with ample scope for collaboration.



21,000 people work
within the circular
economy in Wales



Wales has the highest
level of municipal
recycling in the UK

This type of collaboration is key to our success – and you'll find some high-profile firms working with large and small suppliers throughout all parts of Wales.

Newport Celtic Recycling is the leading UK specialist in hazardous waste disposal and the recovery of heavy electrical transformers.

Environmental Compliance is one of the UK's leading providers of environmental training and consultancy. It works across the industrial sector, helping companies

to manage complex and specialised industrial monitoring requirements.

National and international waste management companies like Suez Environmental, Veolia, Viridor and Wheelabrator are investing in infrastructure, technology and new business development in Wales. The resulting major projects – including a new energy recovery facility in Cardiff which was officially opened in June 2015 – offer new business opportunities in the years ahead.

ENVIRONMENTAL TECHNOLOGIES

Building Technologies

In the built environment, Matilda's Planet specialises in energy efficient insulation; its hallmark 'Blanket' unit is akin to internal double glazing, offering high levels of insulation and excellent acoustic performance.

Similarly, Knauf Insulation manufactures rockwool and foam products. With ongoing investment in R&D, they're constantly refining their products and identifying suitable insulation for all types of building.





Water Technologies

Many firms in Wales specialise in water supply and wastewater treatment. Leading player, Hydro Industries, uses electricity to treat water, eliminating the need for bulk liquid chemicals and large volumes of biomass.

This provides an all-encompassing service to a wide range of clients, including Shell, the Ministry of Defence and water utilities companies such as Scottish and Yorkshire Water.

Monmouth-based Silbuster works with the construction and land remediation industries, offering solutions including silt management and the prevention and control of water contamination in addition to treatment of contaminated water.

GX Environmental, also based in Monmouthshire, provides software and systems for effective management of tankered sludge, cess, septic and trade waste. The company also deploys a lean water management system, with a centralised control designed to minimise water loss.

O P P O R T U N I T I E S

There are numerous opportunities to join the local supply chain. In particular, there are opportunities in domestic energy efficiency retrofit through schemes such as Welsh Government Warm Homes and Arbed.

Arbed was set up to address key environmental issues, including climate change, fuel poverty and

economic regeneration. It targets support for deprived communities across Wales.

Local businesses across Wales have the chance, through initiatives like Arbed, to deliver these essential measures, from manufacturing through to supply and installation of equipment to drive energy efficiency.

Arbed has supported SMEs to collaborate and grow and access training and apprenticeship support.



PROFESSIONAL SERVICES

We have over 330 environmental consultancy services companies in Wales, employing around 2,500 people. Annual sales exceed £150 million, shared between homegrown businesses and a cluster of global consultancies.

Major players here include ARUP, a Cardiff-based supplier of leading-edge environmental and planning support. Other key names include AMEC, Balfour Beatty, Biwater, Laing O'Rourke, CH2M, WS Atkins, WSP Parsons Brinckerhoff and Mott MacDonald.

We also have a number of specialist companies here, providing niche services, such as laboratory and geo-environmental analysis.

Alcontrol is one of the UK's leading names in environmental testing, with two laboratories in north Wales. PetroStrat of Conwy, also in north Wales, provides high-quality analysis and biostratigraphic consultancy.

Chemostrat, based in the mid Wales town of Welshpool, undertakes chemostratigraphy work for the oil and gas industry.

Alongside these larger firms, Wales also boasts a high number of micro-consultancies. These firms – some with fewer than five employees – work in defined niches such as impact assessment, due diligence, wastewater management, air pollution, contaminated land remediation and ecological land management.



SMART LIVING

Smart Living solutions are at the heart of Wales's drive towards achieving its low-carbon ambitions.

This ranges from smart energy technologies to ICT/data management solutions to achieving a balance between consumer demand and supply.

SMS Plc in Cardiff provides utility solutions including tariffs and metering systems across all industry sectors.

Whilst SenseLogix's R&D centre in Ellesmore Port offers small power control and metering systems.

ACADEMIC EXPERTISE

Research and Development is supported through both industry and academia, with Wales-based researchers leading the way in environmental technologies.

Wales is a rich resource for academic collaboration. Many companies are already involved in research and technology transfer projects with academic institutions.

Cardiff University is home to the Geo Environmental Research Centre, where research includes land regeneration, nuclear waste disposal and soil behaviour.

Also in Cardiff, the Centre of Research in the Built Environment has over 20 years' academic research experience within environmental design, urban sustainable development and the energy efficiency of buildings.

The Hydro-environmental Centre undertakes research to develop computational models covering

water quality, sediment and contaminant transport procession, coastal waters, estuaries and river basins.

At the University of South Wales, the Faculty of Advanced Technology is undertaking research in built and natural environments, environmental technology and waste minimisation.

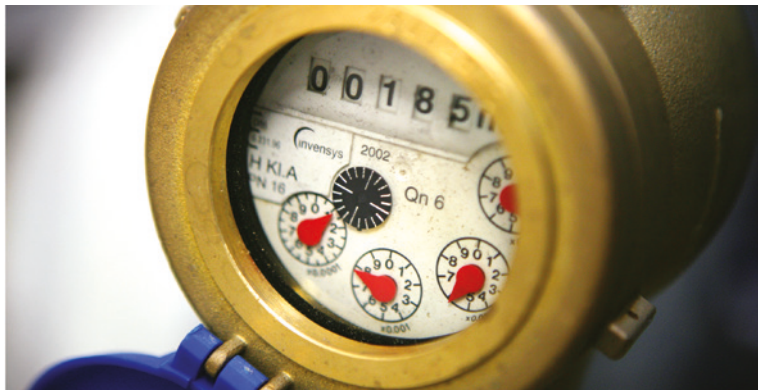
The Wastewater Treatment Research Unit focuses on anaerobic digestion to produce methane from organic wastes. The Sustainable Energy Research Centre runs a number of key projects exploring biological toxicology processes to protect water resources and analysing the impact of agrochemicals on the environment.

The Universities of Aberystwyth and Bangor run a joint Bio Centre and Natural Sciences Faculty – researching

land use, climate change, biodiversity and bioenergy.

The Centre for Catchment & Coastal Research is a partnership between the Universities of Bangor and Aberystwyth. With four research centres, academics have set out to integrate the study of rivers, estuaries and coastal waters within a single functional framework. The findings will support the long-term management of Wales's diverse waters.

SPECIFIC at Port Talbot is an academic and industrial consortium led by Swansea University, Tata Steel, NSG Pilkington and BASF. They are developing ground-breaking coatings for building materials that can be manufactured on an industrial scale in the UK.



A NETWORK OF SUPPORT

Join us in Wales and your business could work with a number of support bodies.

BRE Wales is a multidisciplinary team providing sustainable building consultancy and research. Construction firms consult with BRE on diverse matters including refurbishment, renewable energy, site waste management and thermal modelling.

Construction Excellence Wales assists the construction industry to improve performance which includes driving waste prevention and re-use within the industry.

Whilst the Energy Savings Trust focuses on reducing consumer fuel bills.

WRAP Cymru is a Waste and Resources Action Programme, funded by Welsh Government which helps businesses of all kinds to reduce waste, make better use of resources and develop sustainable products.





"I am determined that we will do all we can... by providing leadership and a stable framework; by maximising the benefits of all energy development and energy efficiency and by positioning Wales at the forefront of harnessing energy from the sea and the move to smart living."

First Minister for Wales

WHAT NEXT?

The opportunities for your sector in Wales are many and varied – so let's talk. Call one of our team to find out more about what Wales can do for your business.

Find out what Wales can do for your business:

UK—

+44 (0) 3000 6 03000
tradeandinvest.wales

GROWING OPPORTUNITIES

The Welsh Government has four Enterprise Zones supporting the future development of the sector. Wales is entering an era of new environmental standards – and businesses from the UK and Europe are invited to play a part.





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