

# EMEC

## PIONEERING THE TRANSITION TO A CLEAN ENERGY FUTURE

Reducing the time, cost and risk  
of demonstrating ocean energy  
and integrated low carbon technologies



# TEST WITH US

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# WHERE YOU'LL FIND US



# OVER 20 YEARS OF CLEAN ENERGY INNOVATION

**EMEC is a not-for-profit innovation catalyst pioneering the transition to a clean energy future.**

Based in Orkney, Scotland, we are the world's leading centre for demonstrating wave and tidal energy converters in the sea.

EMEC was established in 2003 to kick start the development of the ocean energy industry in the UK. Our plug-and-play facilities help reduce the time, cost and risk of testing and demonstrating ocean energy and associated low carbon technologies.

# REDUCING THE TIME, COST AND RISK OF TESTING OCEAN ENERGY TECHNOLOGIES

The centre provides pre-consented, grid-connected test sites in harsh wave and tidal regimes as well as scale test sites in gentler conditions for testing smaller scale technologies, subsystems and components.

EMEC is the world's only recognised ISO/IEC 17025 test laboratory for ocean energy. As an independent test facility, we provide performance assessments that support technology development towards certification, while offering third party assurance and credibility to investors and funders.

To date, EMEC has hosted more ocean energy devices than at any other site, providing operational, technical and business support to help clients commercialise.

**22** WAVE AND TIDAL CLIENTS  
**11** COUNTRIES  
**35** MARINE ENERGY DEVICES

To support sector progress towards commercialisation, we are expanding our grid-connected test sites to accommodate early-array demonstrations, enabling scale-up and cost reduction.

**2001**

Recommendation by House of Commons Science and Technology Committee to set up a wave and tidal energy test facility to kick start a marine energy industry in the UK...

**EMEC ESTABLISHED**

**2003**

**WORLD'S FIRST** test centre for demonstrating ocean energy technologies in the sea

**2004**

**WORLD'S FIRST** offshore wave energy generated into national grid by Pelamis Wave Power

**2005**

**WORLD'S FIRST AND ONLY** ISO/IEC 17025 recognised test laboratory

**2006**

**2007**

**2008**

**UK'S FIRST** tidal stream power generated into grid by OpenHydro

**2009**

**2010**

**WORLD LEADER**  
**MORE MARINE ENERGY DEVICES TESTED AT EMEC THAN ANY OTHER SITE IN THE WORLD**

**2011**

**2012**

**2013**

# INTEGRATING RENEWABLES INTO CLEAN ENERGY SYSTEMS

To accelerate the commercialisation of ocean energy, EMEC is driving innovation in the integration of renewables with complementary energy vectors and alternative offtake industries.

Our offshore and onshore facilities provide a test platform for first-of-a-kind and pilot scale demonstrations, including green hydrogen, battery storage, e-fuels, refuelling technologies and data centres. Activities range from early-stage feasibility through to on-site demonstrations, addressing regulatory, operational and logistical challenges through to end-use deployment.

This has led EMEC to exploring innovative solutions for decarbonising power, heat and transport, and supporting the decarbonisation of other sectors, including maritime and aviation.

EMEC's infrastructure and experience is increasingly being used in wider energy systems and low carbon innovation, from a Microsoft subsea data centre, offshore charging systems for electric vessels to e-fuel demonstrators.

# ACCELERATING DEEPWATER WIND AND ISLANDS DECARBONISATION

Building on our experience in developing the ocean energy sector, EMEC is also exploring options to develop a national deepwater and floating wind test site to the west of Orkney. DeepWind will offer offshore wind developers representative metocean conditions to prove, refine and de-risk technologies for projects in the UK's offshore wind pipeline before full commercial deployment.

EMEC also runs the Offshore Wind Research and Innovation Programme to help develop novel solutions for offshore wind.

Being based in Orkney, we operate within an inspiring energy ecosystem with a rich history of innovation. This unique island environment has encouraged us to explore new opportunities to cut emissions and enhance resilience in the communities closest to our operations.

A cornerstone of this work is the Islands Centre for Net Zero (ICNZ), a flagship initiative led by EMEC, with Orkney, Shetland and the Outer Hebrides collaborating to become lighthouse communities for islands decarbonisation.

EMEC was set up to spark the development of an ocean energy sector and boost economic development in the Highlands and Islands.

Over the years we have grown and diversified and the unprecedented activity that has taken place in Orkney has been a catalyst for economic development, creating jobs and a world-leading supply chain now exporting skills and knowledge around the globe.



2014 >>> 2015 >>> 2016 >>> 2017 >>> 2018 >>> 2019 >>> 2020 >>> 2021 >>> 2022 >>> 2023 >>> 2024 >>> 2025 >>> 2026 >>>

**WORLD'S FIRST**  
tidal-powered  
hydrogen  
generation

**WORLD'S FIRST**  
and only ocean  
energy facility  
designated  
with RETL  
status by  
IECRE

**WORLD'S FIRST**  
international power  
performance  
assessment  
delivered to  
Verdant Power  
in New York

**WORLD'S FIRST**  
flight powered  
by synthetic fuel  
(made at EMEC)  
achieved by  
Royal Air Force

**WORLD'S MOST  
POWERFUL  
TIDAL TURBINE**  
Orbital O2 being  
demonstrated at  
EMEC

**WORLD'S FIRST**  
3-in-1 tidal  
energy, hydrogen  
and battery  
demonstration

# TEST WITH US

We can support your technology development from early stage technology readiness levels through to deployment at EMEC and beyond.

With two decades of experience, EMEC is attracting developers from around the globe to prove what is achievable in some of the harshest of marine environments.

Whilst initially designed for ocean energy testing, our sites have been sought out by other industries looking to demonstrate clean energy and sustainable technologies in the sea, for example offshore monitoring equipment, a subsea data centre and offshore charging systems for electric vessels.

EMEC also supports and hosts demonstration projects onshore, helping to develop and trial solutions that contribute to renewables integration, wider energy system change and cross-sector decarbonisation. For example, we've hosted projects demonstrating production and end use of green hydrogen and e-fuels.

Please get in touch for a chat about how EMEC can help your technology development programme.

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# TEST SITES FOR CLEAN ENERGY DEMONSTRATIONS

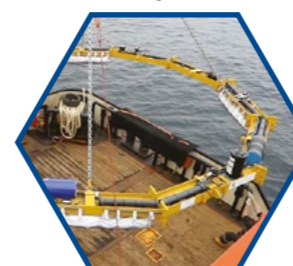


Our sites are used by technology developers, supply chain companies, equipment manufacturers and academics for a wide range of activities.

## TECHNOLOGY DEMONSTRATIONS



## TOOLS DEVELOPMENT



## MATERIALS TESTS



## COMPONENTS AND SUBSYSTEMS



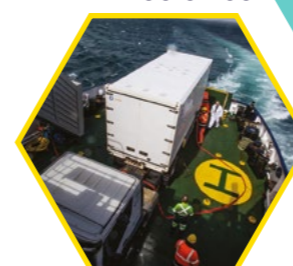
## RESEARCH PROJECTS



## ENVIRONMENTAL MONITORING



## STORAGE AND LOGISTICS



## TRAINING



## H&S PROCEDURES



## MOORINGS, CABLING AND CONNECTIONS



## MARINE OPERATIONS TRIALS



## INSTALLATION AND DECOMMISSIONING



# OCEAN ENERGY TEST SITES

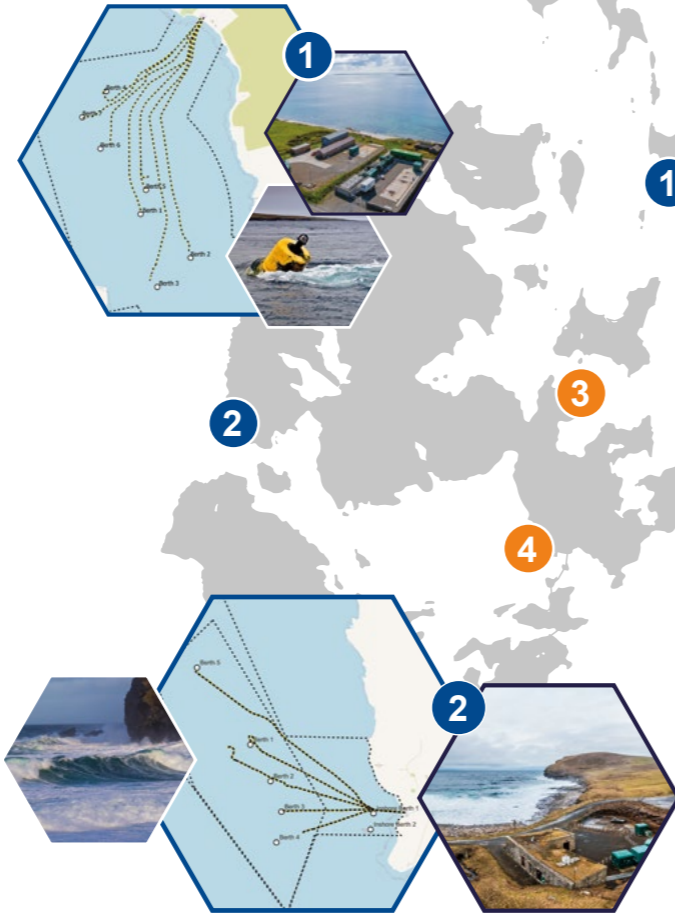


## GRID CONNECTED TESTING

Increase investor confidence by proving real sea performance.

EMEC is the world's only recognised ISO/IEC 17025 test laboratory for ocean energy. Our clients benefit from pre-consented, grid-connected test and demonstration facilities, suitable for testing various wave and tidal energy converters, subsystems and tools simultaneously.

EMEC's facilities are located in major wave and tidal resources, helping to prove what is achievable in some of the harshest marine environments while in close proximity to sheltered waters and harbours.



## SCALE TEST SITES

Learn lessons at scale, reducing costs and minimising risks before scaling up.

Based in less challenging conditions than our grid-connected test sites, our scale test sites provide accessible in-sea testing options, acting as a stepping stone between tank testing and demonstrating larger projects.

- Overarching site licence simplifies the consents process within an agreed envelope of activity.
- Test support buoys\* enable dissipation of electricity, as well as remote monitoring and control.
- Microgrid\* can be set up to simulate grid connection.
- Pre-installed anchor points provide mooring options.
- An area of seabed is available for rehearsal or deployment of tools and techniques.

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### 1 Tidal test site at Fall of Warness

Grid-connected: **Yes**  
 Berths: **7**  
 Depth: **12-50 m**  
 Typical spring tides: **3-4 m/s**  
 Typical neap tides: **1-2 m/s**

### 2 Wave test site at Billia Croo

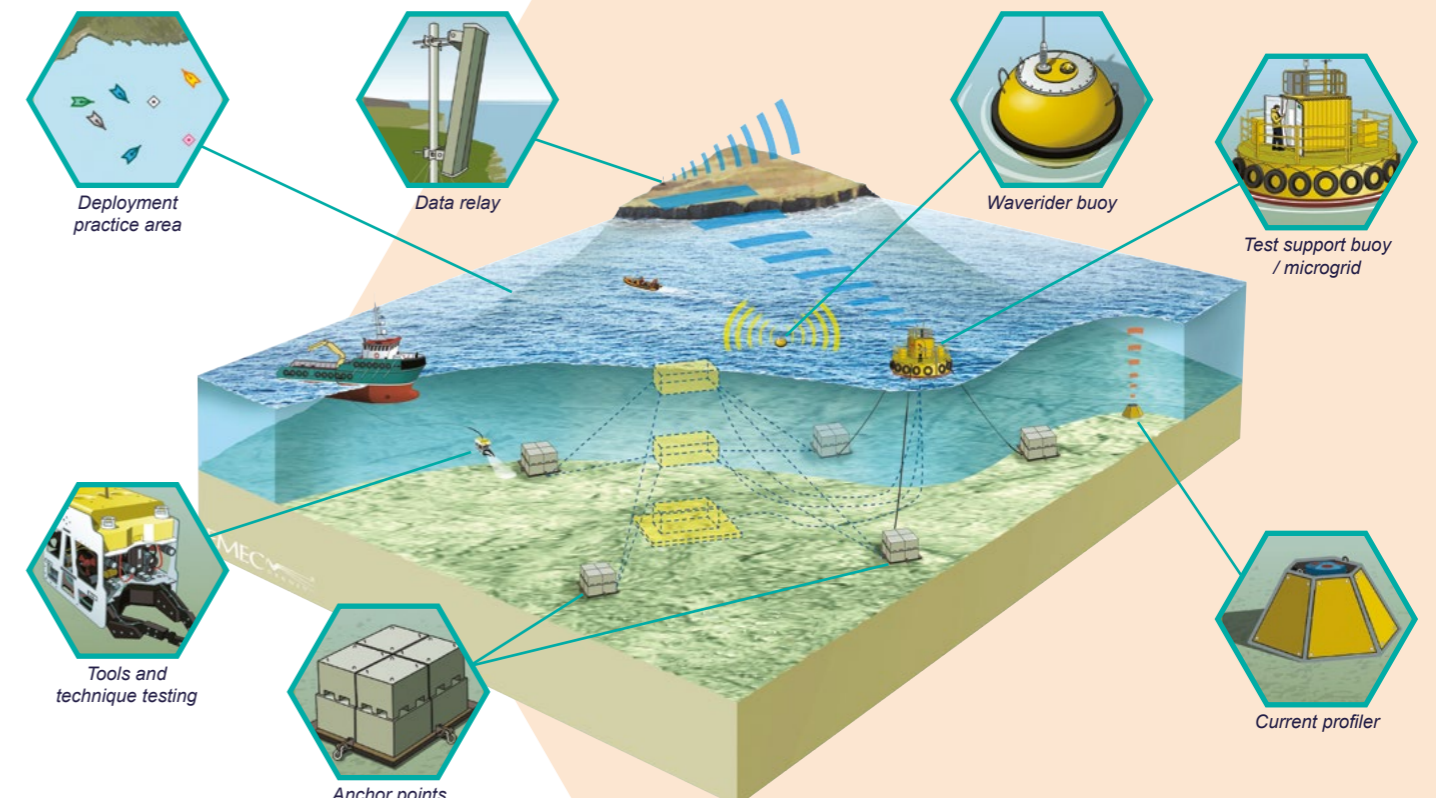
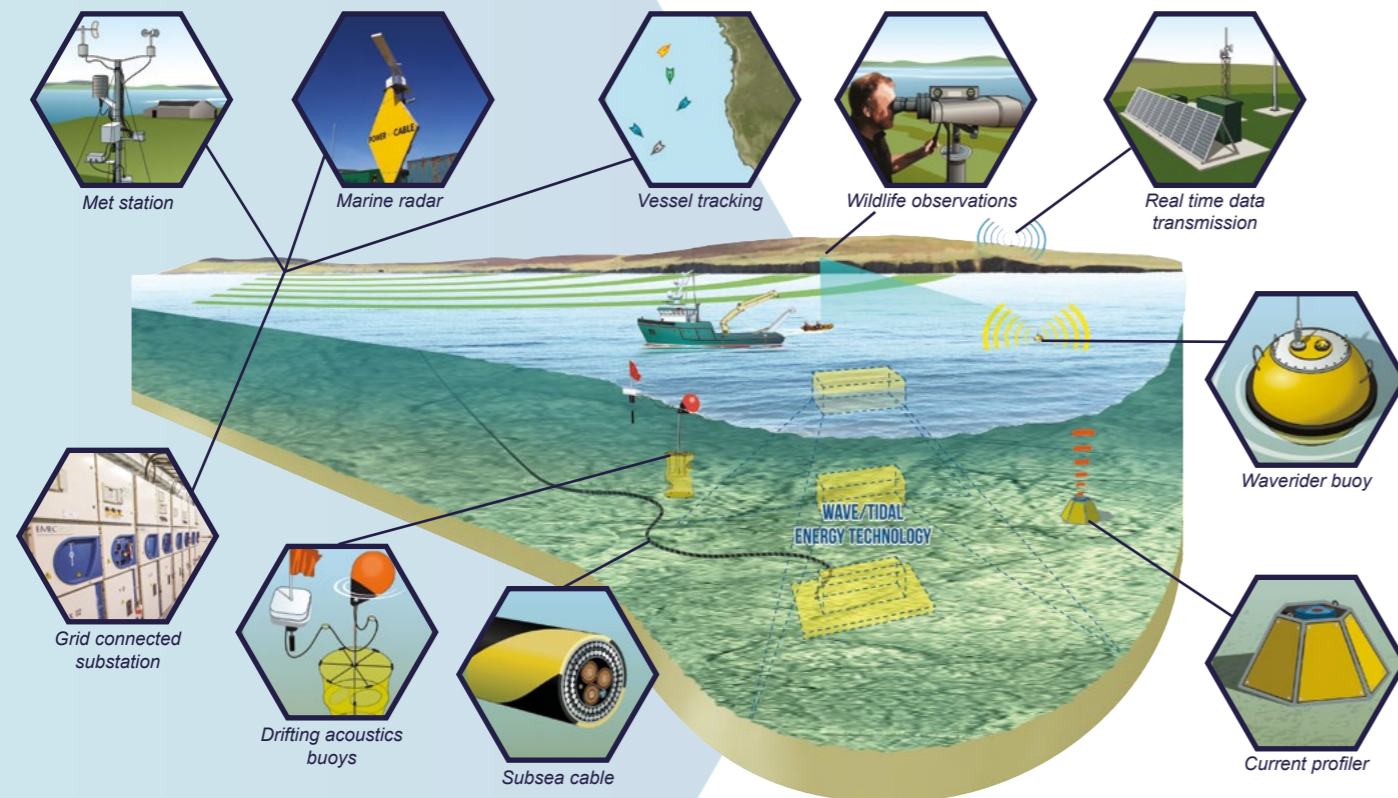
Grid-connected: **Yes**  
 Berths: **5 cabled (+1 near shore)**  
 Depth: **50-70 m (20 m near shore)**  
 Significant wave height: **2-3 m** (annual mean)  
 Significant wave height: **8-10 m** (typical winter peaks)

### 3 Scale tidal test site at Shapinsay Sound

Grid-connected: **No\***  
 Berths: **2**  
 Depth: **21-25 m**  
 Typical spring tides: **1.1 m/s**  
 Typical neap tides: **0.4 m/s**

### 4 Scale wave test site at Scapa Flow

Grid-connected: **No\***  
 Berths: **2**  
 Depth: **21-25 m**  
 Significant wave height: **0.4 m** (annual mean)



# OFFSHORE WIND TESTING AND INNOVATION



## COMPONENT AND SUBSYSTEM TESTING

EMEC's existing ocean energy test sites can accommodate demonstrations of offshore wind related components, subsystems and tools, for example floating platforms, anchoring solutions and installation methodologies.

Previous trials have included high-performance coatings, offshore mooring demonstrations and solutions to minimise the impacts of biofouling.



## RESEARCH AND INNOVATION PROGRAMME

EMEC launched its Offshore Wind Research and Innovation (R&I) Programme in 2023.

The £1 million programme is searching for novel solutions to help deliver offshore wind faster, cheaper and at lower risk.

The programme aims to accelerate innovation, supporting companies to explore ways to overcome specific technical challenges in offshore wind development in high energy environments, while embedding economic benefits in the North of Scotland.

A series of innovation calls will address challenge areas facing Scottish offshore windfarms, spanning metocean, installation, logistics, and operations and maintenance (O&M).

Innovative projects will be sponsored to help the supply chain bring new solutions to market, build operational capacity and scale up activities. Successful applicants can also get support with developing a robust project proposal, accessing alternative grant funding and opportunities to test at EMEC's world-leading demonstration sites.



# DEEPWIND



## DEEPWATER WIND TEST SITE (IN DEVELOPMENT)

As UK offshore wind projects scale into deeper waters, developers require access to representative environments to prove, refine and de-risk technologies before full commercial deployment.

Such technologies typically need to demonstrate a minimum of 8,000 hours of normal operation at full scale in real-world conditions to satisfy certification bodies and avoid expensive and limiting insurance. Both certification and insurance are vital to ensuring final investment decisions.

EMEC's proposed deepwater and floating wind test site, DeepWind, will provide developers with the opportunity to better understand technical, safety and environmental risks by enabling testing of planned transport, installation, commissioning and operational processes.

DeepWind will initially comprise four grid-connected berths for deepwater and floating wind turbines of up to 20-25 MW rated power.



With water depths between 85-100 meters, large waves and a mean wind speed of 10.7 m/s, the site will offer representative metocean conditions for ScotWind and INTOG projects.

DeepWind will enable developers to de-risk technologies, putting turbines, floating structures, moorings and other components to the test in an energetic offshore environment, allowing performance to be refined across a wide range of technologies ahead of commercial scale-up.

A dedicated national test site will help ensure the UK captures and retains the innovation benefits from deepwater and floating wind, strengthening its position as a global leader in the sector.

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## OFFSHORE WIND R&I PROGRAMME

RESEARCH & INNOVATION

Become a sponsor to enable the supply chain to develop solutions that directly support your project developments.

Innovation calls are tailored to your technical, delivery and commercial challenges, or can focus on broader objectives such as skills development, local content and sustainability.

### BECOME A SPONSOR:

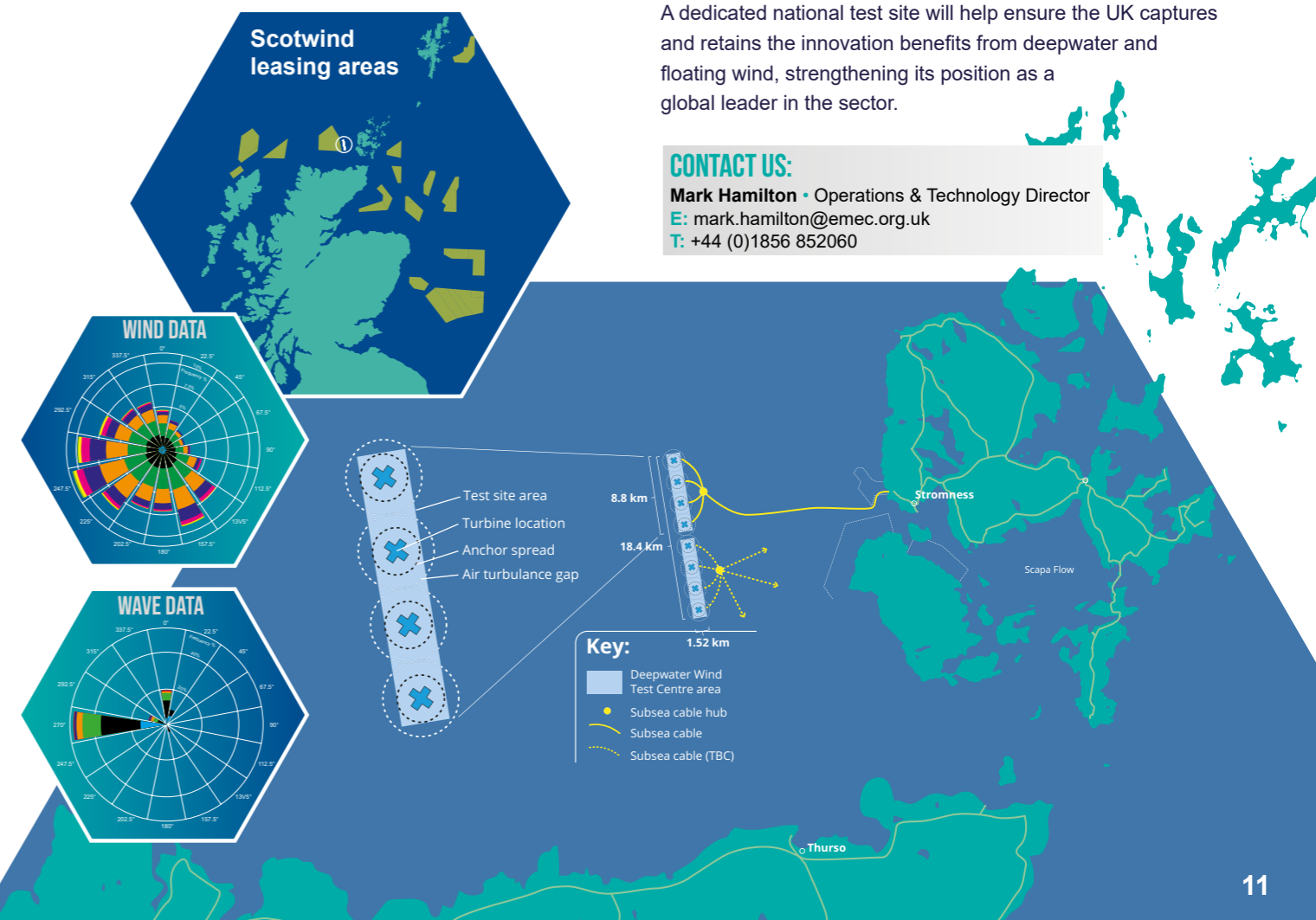
- Accelerate innovation to reduce costs and boost performance
- Engage constructively with supply chain
- Deliver commitments on local content, skills and sustainability
- Access world-leading expertise and exposure

offshoreinnovation.scot  
 emec@offshoreinnovation.scot

Delivered by **EMEC**  
 THE EUROPEAN MARINE ENERGY CENTRE LTD.

Sponsors: **Crown Estate Scotland** (Dìghreachd a' Chrìon Alba), **West of Orkney Windfarm**

Supporters: **Highlands and Islands Enterprise** (Bomagan na Gàidhealach 's na h-Eilean), **Scottish Enterprise**



# RENEWABLES INTEGRATION R&D AND DEMONSTRATION

EMEC is driving innovation in integrating renewables with complementary energy vectors and alternative offtake industries.

Our goal is to accelerate the commercialisation of offshore energy and demonstrate practical solutions for decarbonising power, heat and transport.

Our onshore and offshore facilities provide a test platform for first-of-a-kind and pilot-scale demonstrations, from green hydrogen and battery storage to e-fuels, refuelling technologies and data centres.



# GREEN HYDROGEN LEARNING AND KNOWLEDGE EXCHANGE



Since 2016, EMEC has been at the forefront of green hydrogen R&D, hosting pilot demonstrations integrating ocean energy with novel hydrogen technologies and exploring end use applications.

2025 was a milestone year with the completion of two pioneering hydrogen demonstration projects that reflect years of dedicated work and delivered valuable lessons to guide future projects.



## WORLD FIRST 3-IN-1 TIDAL ENERGY, HYDROGEN AND BATTERY DEMONSTRATION

Led by EMEC, this demonstration integrated three technologies: Orbital Marine Power's O2 tidal turbine, vanadium flow batteries supplied by Invinity Energy Systems, and an ITM Power 670 kW electrolyser, at EMEC's onshore site on the island of Eday.

Multiple energy flow scenarios were trialed. During periods of high generation, power from the O2 was used to charge the battery system, supply electricity directly to the electrolyser and export power to the grid. When tidal generation was low, the battery system discharged power to the electrolyser to keep the electrolyser operating.

This smoothed the cyclical nature of tidal energy, enabling on-demand electricity to power the electrolyser for hydrogen production.

This approach could help overcome future grid constraints and unlock new offtake opportunities for ocean energy, paving the way for more resilient, responsive renewable energy systems.

## HYDROGEN USED TO POWER AIRPORT IN UK FIRST

A novel hydrogen combustion engine trial at Kirkwall Airport in Orkney marked the first time hydrogen has been used to meet both the power and heat demands of a commercial airport in the UK.

The 100% hydrogen combined heat and power (CHP) unit, manufactured by 2G, was installed and operated as part of a demonstration led by EMEC.

Working with airport ground staff, additional electrical loads were activated to test system performance. During the trial, the CHP powered the airport terminal and runway lighting, and met the heating demand without the need for the airport's boilers.

## LEARNING AND KNOWLEDGE EXCHANGE

EMEC's hydrogen demonstration projects have provided valuable insights into production, storage, transport and end use applications. This includes practical learning on integrating electrolysers with variable renewables, as well as hidden costs and regulatory hurdles in hydrogen logistics, and the limitations of using hydrogen directly for power or heat.

Building on this experience, we see hydrogen's greatest potential as a building block for liquid e-fuels. These offer a practical route to decarbonising hard-to-electrify sectors such as aviation and maritime where direct electrification is impractical.

Produced from renewable hydrogen and captured carbon, e-fuels can act as drop-in replacements for fossil fuels. They requiring little or no modification to existing engines and infrastructure and, when burned, release net-zero carbon emissions. This approach leverages hydrogen's versatility while addressing storage, transport and energy density challenges, making it a scalable and impactful solution for decarbonisation.

If you'd like a deeper insight into our hands-on experience and real-world lessons, get in touch to arrange a knowledge exchange workshop tailored around your needs.



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# ISLANDS OF INNOVATION LIGHTHOUSE COMMUNITIES FOR THE ENERGY TRANSITION

The Orkney Islands have been home to, and centre of, renewable energy innovation for more than 60 years.

## KEY STATS\*:

- 10% of homes on Orkney have microgeneration compared to 2.8% in the UK;
- Orkney has over 3 times as many EVs per home than the UK average;
- Orkney has 2.0 kW of renewable energy capacity per home – 9 times higher than UK average;
- Orkney has 12 times more domestic RHI installations per home than the UK average;

\*Dept of Business, Energy and Industrial Strategy, and Dept of Transport: 2020



Since 2013, Orkney has generated over 100% of its electricity demand from renewable power sources.

Orkney has a long-standing heritage as a national location for testing modern wind turbine technology since the first deployment at Costa Head in the 1950s. Over the last 20 years there has been a marked diversification in activity, starting with energy efficiency, then deploying wind turbines to decarbonise electricity, establishing a world leading marine energy test facility, introducing innovative heating, and projects exploring green hydrogen, energy storage and balancing technologies.

Orkney's energy ecosystem is being used as a case study to help other communities and regions across the world. Visitors come to Orkney to learn from the pioneering energy R&D activities taking place, and Orkney-based expertise and equipment has been exported all over the world to help facilitate, encourage, and inspire communities to achieve their own sustainable energy solutions.

Orkney has largely decarbonised its electricity and is working hard to decarbonise heat and transport by 2030. Collaboration is key and EMEC works closely with partner organisations, locally and internationally, to help demonstrate the clean energy system of tomorrow.

# DECARBONISING SCOTLAND'S ISLANDS



The Islands Centre for Net Zero (ICNZ) is a ten-year, £16.5 million programme dedicated to accelerating decarbonisation across Orkney, Shetland and the Outer Hebrides.

Part of the Islands Growth Deal, ICNZ is jointly funded by the UK and Scottish governments. It is led by EMEC alongside partners Aquatera, Community Energy Scotland, Heriot-Watt University and the three Islands' Councils.

ICNZ aims to navigate barriers to decarbonisation through applied research, demonstration of innovative technologies and deployment of solutions. The partnership is working with the islands' communities and local businesses, empowering them to identify and implement place-appropriate solutions that could have replicability worldwide.

[icnz.org](http://icnz.org)  
[info@icnz.org](mailto:info@icnz.org)



## OBJECTIVES:

**Accelerate decarbonisation**  
across the three island groups

**Create jobs**  
and transition in the islands

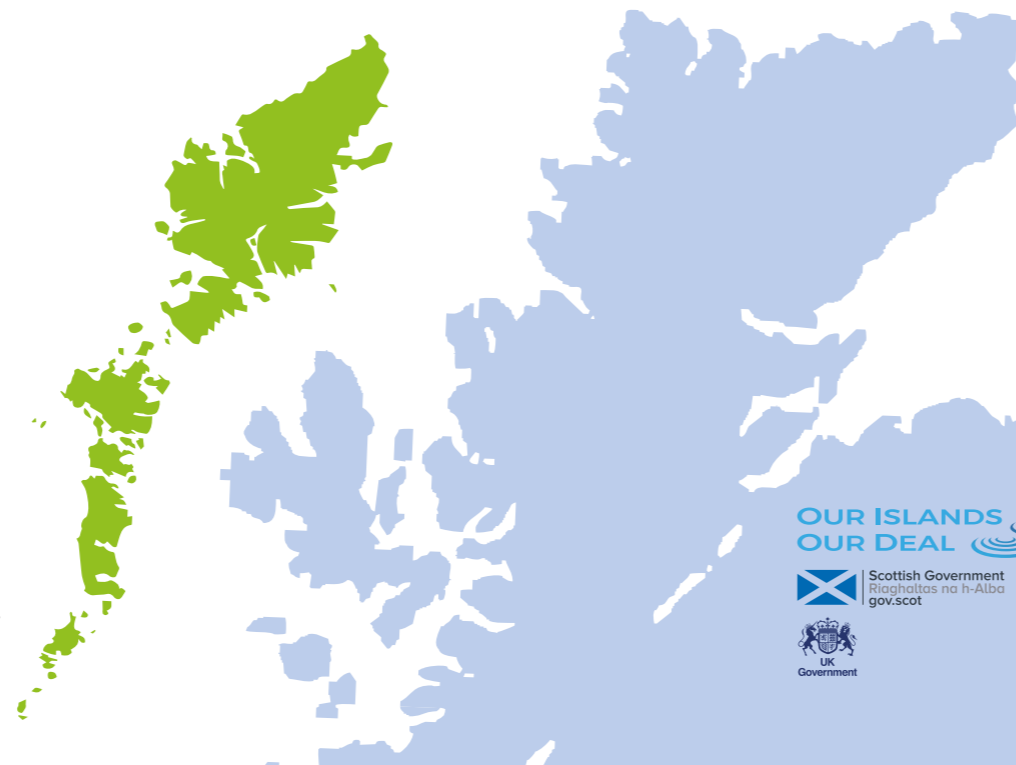
**Grow new businesses**  
that strengthen the island economies

**Trial new low-carbon solutions**  
which could be replicated worldwide

**Develop island-grown expertise**  
to support the energy transition

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# RESEARCH AND DEVELOPMENT IN ORKNEY AND BEYOND



EMEC plays a fundamental role in supporting industry to develop products, reduce risk, cut costs and improve efficiency.

Over 20 years of front-line experience in supporting clean energy testing and demonstration has given rise to a range of wider collaborations generating cross-sectoral innovation and knowledge sharing.

To date, we have taken part in R&D projects totalling £538 million for the development of the renewables industry. From projects spanning subsea cables to subsea data centres, hydrogen production to e-fuels, our infrastructure and experience is being used to facilitate innovation across various sectors.

Most of the work we're involved in is experimental and putting early stage, pre-commercial technological solutions to the test.

We work in a fast-paced, ever-changing environment and are always looking for ambitious project partners and new ideas to support innovation challenges in the clean energy space.

Scan the QR code for open and upcoming funding calls.

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# SUPPORTING YOUR R&D PATHWAY



EMEC works with a broad range of partners, from innovators to academia, supporting projects from feasibility through to development and demonstration.

To ensure our support is tailored to your needs, we work closely with you to understand the challenges you're facing, explore potential solutions, and share insight drawn from real-world testing and operations.

## CONSULTANCY AND SUPPORT SERVICES

### TECHNOLOGY READINESS, CREDIBILITY AND BANKABILITY

- TRL and CRL assessment based on operational evidence
- Validation of performance, reliability and deployability
- Identification of key gaps to deployment and investment
- Support to certification and FID decision-making

### HYDROGEN, E-FUELS AND ENERGY SYSTEMS SUPPORT

- Safety, regulation and operational insight
- Hydrogen training and capability development
- Integration with wider energy systems

### TEST SITE DEVELOPMENT AND OPERATIONS

- Site feasibility and layout optimisation
- Consenting and regulatory support
- Environmental planning and monitoring
- Operational readiness and optimisation

### DEVELOPER ENABLEMENT AND CAPABILITY BUILDING

- Stakeholder and regulator engagement
- Health & safety and operational best practice
- Project delivery and communication support
- Bespoke workshops and training

### DATA, METOCEAN AND ENVIRONMENTAL SERVICES

- Metocean data collection and analysis
- Environmental monitoring and reporting
- Data management and quality assurance
- Performance insight and benchmarking

### LESSONS LEARNED AND SECTOR INSIGHT

- Capture and synthesis of project lessons learned
- Identification of recurring risks and issues
- Practical guidance for developers, regulators and investors
- Input to policy and sector development

### PROJECT COMMERCIALISATION AND INVESTMENT READINESS

- Funding strategy and business case development
- Bid writing and funding applications
- Investor positioning and engagement
- FID readiness support





The development of EMEC and the marine energy supply chain has had a positive effect locally, and across the UK, creating employment and encouraging public and private investment to help service the sector.

## EMPLOYMENT

EMEC has created highly skilled, high value jobs and is one of the top 20 employers in Orkney, with salaries higher than the Orkney average.

The creation of high value jobs helps to retain young people in Orkney, attracting back those who had previously moved away for work or study, as well as enticing new people to move to the county. This is particularly important as the working age population of Orkney is projected to decrease by 13% between 2021 and 2043.



## ECONOMIC IMPACT IN NUMBERS\*



\*Economic impact assessment by BiGGAR Economics on total cumulative impacts attributable to EMEC: 2003-2023

## LOCAL CONTENT GLOBAL IMPACT

By taking advantage of the resources available in the Highlands and Islands, we are supporting the economic development of rural peripheral areas.

**50% (over £38 million) of EMEC spend 2005-2025 has been spent in Orkney.**

Further afield, concentrated effort is being made by the ocean energy sector to ensure local content is front and foremost in procurement. For example, Orbital Marine Power's O2 tidal turbine was made with 80% UK supply content, from Scottish steel work and main manufacturing through to anchors from Wales and blades from the south of England. The launch of the O2 marked the first vessel launch from Dundee since ship building ended over forty years ago.



## SUPPLY CHAIN DEVELOPMENT

EMEC has fostered a cluster of activity in Orkney that is enabling other companies to develop and thrive. The services available locally have developed substantially since EMEC was established with businesses in other sectors, such as fishing, diving and oil and gas, diversifying into the marine renewables sector.

## EXPORTS AND INWARD INVESTMENT

EMEC has exported its knowledge across the Americas, Europe, Asia and Oceania to support the development of a global ocean energy sector and facilitate wider clean energy R&D. EMEC has secured £49.5 million R&D funding since 2016, the vast majority of which was inward investment.

A hub of knowledge has been created through the creation of EMEC. Local consultancies, diving companies and vessel operators are now selling knowledge obtained by working on EMEC's sites and with our customers to others around the world.

## INFRASTRUCTURE

£23 million has been invested by OIC and HIE in supporting harbour infrastructure for the ocean energy sector in Orkney, which has also benefited the fisheries industry and cruise sector.

## A JUST TRANSITION TO A MORE EQUITABLE ENERGY FUTURE

KEEP UPDATED ON LARA'S RESEARCH.



## PHD - IN THE SPOTLIGHT

Exploring the justice dimensions of emerging energy technologies

An energy justice and responsible innovation inquiry into marine renewables and green hydrogen in island communities.

This research explores these emerging technologies which are not yet 'locked into' our current systems, to anticipate their potential risks of injustice, and the opportunities they offer for building just energy transitions.



Lara Santos-Ayllon

# COLLABORATION TEAMWORK MAKES THE DREAM WORK



Over 20 years of front-line experience in supporting clean energy testing and demonstration has given rise to a range of collaborations generating cross-sectoral innovation and knowledge sharing.

We partner with the local supply chain and wider industry on R&D projects to drive the transition to a clean energy future. We also work closely with other ocean energy test centres to support the global development of the ocean energy sector.

## INTERNATIONAL WATERS

Test centres help develop the sector in many ways. They help reduce costs and streamline test programmes for technology developers, are often the first to encounter regulatory barriers like permitting and are therefore a key node for knowledge sharing within the sector. They also provide a local/regional focal point encouraging job creation and supply chain growth.

EMEC established the International WaTERS (Wave and Tidal Energy Research Sites) network in 2013. As part of our 10th anniversary, we hosted an International Test Centre Symposium in Orkney, Scotland, inviting operational and planned test sites from around the world to discuss common issues and agree actions for collaborating for the good of the marine energy sector.

Since then, the group has met annually. Today the network includes open-sea test centres from over 20 countries and over 30 test and research centres.



International WaTERS drives collaboration and knowledge transfer between test centres and global regions. Members learn directly from their peers about managing test sites to a high standard and delivering high-quality research and demonstration programmes.

The objectives of the network are to:

- Share updates on progress and challenges;
- Identify solutions to common test site challenges and opportunities;
- Discuss key R&D topics;
- Identify actions to forge relationships and knowledge transfer between test sites.

The network has proven to generate collaborative research projects (for example the Interreg NWE OceanDEMO and BlueGIFT projects), and tangible knowledge exchange between test sites.

## FINDINGS FROM INTERNATIONAL WATERS

A new report was published in 2026 by the IEA-OES (International Energy Agency - Ocean Energy Systems) capturing the key findings and lessons learned from 10 years of International WaTERS. Follow the QR code for more details.

## TEST CENTRE DATABASE

For further information on the network and a database of international ocean energy test centres, visit: [www.internationalwaters.info](http://www.internationalwaters.info)

The network has been supported by:



# JOIN OUR TEAM



We are driven to help find solutions to tackle climate change internationally, create a sustainable and more equitable energy system, and deliver tangible economic impact for the communities we work in.



## PLANET

Leave a positive legacy on the environment, advancing clean energy and embedding sustainability in what we do.



## PEOPLE

Create jobs and development opportunities within a safe, healthy and inclusive culture.



## PROSPERITY

Create opportunities and economic impact for our local communities while shaping global change.

## DO YOU SHARE THIS PASSION?

Based in Orkney, off the north of Scotland, we're passionate about finding solutions for islands decarbonisation and believe that islands have a key role in becoming lighthouse communities in the energy transition. Orkney has a long-standing history in renewable energy innovation and can be viewed as a microcosm demonstrating the energy system of tomorrow, guiding other communities and regions across the world.

The passion and dedication of our team in building a cleaner, fairer world is what makes EMEC what it is today. By choosing to work at EMEC, you will be joining a world-leading company, working on pioneering, innovative projects and helping find the solutions to some of the world's greatest environmental challenges.

We aim to ensure every member of the team has the support needed and is empowered to succeed in the innovative, fast-paced environment in which we work. It's important to us that you are supported in developing your career and we work hard to build a culture that delivers on our core values, supplying each team member with the tools, opportunity and challenge to grow.

If you want to help shape the future of ocean energy and work towards a cleaner energy future, we want to hear from you.

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