PRESS RELEASE

RESOURCECODE launch marine data toolbox

The RESOURCECODE project, funded by Ocean Energy Era-Net Cofund, is supporting the investment and growth in the wave, tidal and offshore wind energy sectors through the creation of a new integrated marine data toolbox.

The toolbox will be launched at a virtual event on 10 March 2022. The RESOURCECODE team will demonstrate the capabilities of the toolbox, as well as the value of the datasets and provide an interactive environment to introduce the suite of tools.

To attend the event and demonstration you can register for free at https://forms.ifremer.fr/lcsm-brest/webinar-resourcecode/

The RESOURCODE marine data toolbox provides developers with a set of standards and functions for resource assessment and operations planning. The toolbox integrates a high-resolution hindcast dataset and analysis tools in an online platform enabling easy access and analysis. The toolbox has been created using 27 years of hindcast wave data, from across North West Europe and it will provide technology developers and supply chain companies with world leading resource characterisation, enabling them to improve engineering designs, optimise operations in highly demanding marine environments, reduce barriers and promote growth in renewable energy.

Nicolas Raillard, Researcher at Ifremer said:
"We are delighted to launch the RESOUCECODE toolbox, which will enable easy access to the data, while the extended implemented open-source library will allow online analysis dedicated to refined resource assessment and offshore energy converters design and optimisation.

“We are confident that the final 27 year dataset, combined with the RESOURCECODE marine data toolbox will provide the most adapted and integrated solution for ocean renewable energy developers."

Matthew Storey, Project Manager at EMEC, said:

“The RESOURCECODE project brought together an international consortium of businesses and marine renewable energy test sites supported by established academic partners, which blended the necessary expertise for the project. EMEC has enjoyed leading on this project and working in partnership to develop this new marine data toolbox, which will deliver significant benefits for the energy sector.”

The RESOURCECODE project brings together the European Marine Energy Centre (EMEC), Ifremer, Ocean Data Lab, BlueWise Marine, Centrale Nantes, University College Dublin, University of Edinburgh and INNOSEA.

To find out more about the project, go to www.resourcecode.info.

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Editors notes:

This collaborative project has received support under the framework of the OCEANERA-NET COFUND project, with funding provided by national/ regional sources and co-funding by the European Union´s Horizon 2020 research and innovation programme.

Ocean Energy Era-Net Cofund

The Ocean Energy ERA-NET Cofund is an initiative of eight national and regional government agencies from six European countries, which has received funding from the European Union under the Horizon 2020 Programme for Research and Innovation. The participating countries / regions are: the Basque Country, Brittany, Ireland, Pays de la Loire, Portugal, Scotland, Spain and Sweden.

The aim is to coordinate support for research and development in ocean energy, to encourage collaborative projects that tackle some of the key challenges identified for the sector as it progresses towards commercialisation.

www.oceancofund.eu

About EMEC

Established in 2003, EMEC is the world's leading facility for testing wave and tidal energy converters in real sea conditions. The centre offers independent, accredited grid-connected test berths for full-scale prototypes, as well as test sites in less challenging conditions for use by smaller scale technologies, supply chain companies, and equipment manufacturers.

To date, more marine energy converters have been deployed in Orkney, Scotland, than at any other single site in the world with 20 wave and tidal energy clients spanning 11 countries having tested 32 marine energy devices.

www.emec.org.uk

About Ifremer

Established in 1984, Ifremer, France's national integrated marine science research institute, is a reference for knowledge on the marine environment and its resources. On the national, European and international levels, Ifremer is an instigator of coordinated research programmes and infrastructure development.

Ifremer produces knowledge and know-how on the marine environment, meeting the needs for research, for technological development and innovation, for current and future societal issues and for the sustainable harvesting of marine resources and the conservation of marine ecosystems.

www.ifremer.fr

About Ocean Data Lab

OceanDataLab (ODL) is a SME aiming at developing algorithms and tools for the exploitation of synergies between satellite acquisitions, in-situ observations and numerical models. The ODL team is composed of research and software development engineers, with an extensive expertise in all major ocean remote sensing techniques as well as experience in large datasets processing and visualization techniques using disruptive software and hardware technologies. ODL main objectives are the creation of an open source platform for data discovery and processing, development of algorithms for geophysical parameters retrieval and future satellite simulations.

www.oceandatalab.com

About BlueWise Marine

Established in 2012, BlueWise Marine supports the national marine test facility for the development of innovative products and services for the global maritime, in Galway Bay, Ireland. This includes the trial and validation of novel marine sensors, prototype equipment and the collection and dissemination of marine data to national and international users of the facility.

www.bluewisemarine.ie/

About Centrale Nantes

Centrale Nantes is one of the top French graduate Schools of engineering. Thanks to more than 30 years of research, renowned training courses and unique ocean engineering test facilities in Europe, Centrale Nantes is now one of the European leaders in research and innovation on marine renewable energies. Its research centers support your MRE technology by covering ocean, civil and electrical engineering and advanced manufacturing. It benefits from experimental facilities: Supercomputing, Ocean-tank, wind tunnel and offshore test site SEM-REV.

www.ec-nantes.fr

About University College Dublin

University College Dublin (UCD) is one of Europe's leading research-intensive universities with an extensive portfolio of large-scale national and international research programmes. The UCD School of Mathematics and Statistics is ranked in the top 1% in the world for both the subjects of Mathematics and Statistics (in the QS World University Rankings by Subject 2016). The School is the largest of its kind in Ireland and offers the greatest choice of programmes at undergraduate, masters and PhD level, reflecting the ubiquity of the mathematical sciences in the modern world.

www.ucd.ie

About University of Edinburgh

The Institute for Energy Systems, IES, is a multi-disciplinary research institute within the School of Engineering at the University of Edinburgh. Approximately 70 academic and research staff (and over 100 postgraduate students) deliver world leading research in low carbon energy systems, technology and policy. Institute expertise includes resource modelling and measurement, hydrodynamics, computational fluid dynamics,

thermodynamics, electromagnetics, power-electronics, control, power systems analysis and life-cycle analysis. The IES hosts world class test facilities for offshore renewable energy, in particular the FloWave Test-Tank, and leads and participates in academic and industrial-academic projects.

www.ed.ac.uk

About University of INNOSEA

INNOSEA offers engineering technical consultancy and support services by being a specialised pure player in offshore renewable energies. As such, we have expertise and a comprehensive understanding of the industry's specific challenges. We are committed to applying the best practices to overtake technical hurdles and provide our clients with the best engineering solutions and services. INNOSEA is part of the AqualisBraemar LOC group.

www.innosea.co.uk