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R2S excels at Scotland's largest offshore wind test and demonstration facility

Digital twin solution R2S proves its offshore wind credentials through a Vattenfall and ORE Catapult collaboration at the European Offshore Wind Deployment Centre (EOWDC).

Aligning with Vattenfall's ongoing digitalisation strategy, digital asset and data management specialist, James Fisher Asset Information Services (JF AIS) has provided its next generation R2S digital twin technology to help the major offshore wind developer understand how visualisation can optimise asset management and project lifecycles.

This demonstration was made possible by a £1.5 million collaboration between the Offshore Renewable Energy (ORE) Catapult and Vattenfall that is helping to accelerate technology commercialisation by directing high-potential UK developers to trials at the EOWDC. This Vattenfall-owned site in Aberdeen Bay is home to some of the world's most powerful wind turbines, providing a test-bed for offshore wind innovators to demonstrate cutting-edge technology in real-world operating conditions.

Michael Herdman, Vattenfall's Project Manager at the EOWDC, says:

"With digitalisation being one of our main focuses, we are keen to adopt technology which can optimise our operations and maintenance both onshore and offshore. We see huge value in the R2S software. Its digital twin technology allows us to remotely manage our assets using a like-for-like digital copy.

The service from JF AIS has been excellent, and we are excited about future developments and integrations with different data sources, which will help us manage our assets more effectively and efficiently."

To help investigate whether R2S technology could transfer to offshore wind, ORE Catapult previously granted access to its 7MW Levenmouth Demonstration Turbine for virtual mapping. The digital twin platform links directly with existing systems, software and data to support more informed decision-making onshore, unlocking new ways to save money and time.

The EOWDC has been awarded up to €40 million (£35.6 million) of funding from the European Union and is supported by Aberdeen Renewable Energy Group (AREG). The scheme successfully boosts the industry's drive to supply clean and sustainable power, producing enough electricity every year to meet the annual demand of approximately 80,000 homes.

Laura Fairley, JF AIS Market Development Manager, adds:

"Technology transfer across sectors is bringing significant value and we have found this to be the case here. R2S has been developed for over 10 years in the oil and gas sector to help

reduce downtime, streamline data access and improve service delivery, mirroring the needs of the offshore wind industry.

It has been fantastic to work with the forward-thinking team at Vattenfall, creating the R2S model around their digitalisation needs. The initial feedback has been great and I'm looking forward to seeing the added benefits that are created as we look to link more data to their model."

Ends

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James Fisher Asset Information Services Ltd

James Fisher Asset Information Services (JF AIS) enables asset owners and operators to enhance business performance through informed decision-making – providing transparent, value-added digital solutions that deliver results and drive safe and effective asset management.

With the identification, integration, and interrogation of collected data, JF AIS provides comprehensive digital asset management solutions that unlock new ways for customers to be more efficient, productive and to reduce costs. The suite of field-proven digital products and professional solutions we offer includes, machine control, visual asset management, real-time tracking, remote safety management, weighing and measurement, decision support, operational modelling, condition monitoring, IoT platforms, control of work, and other highly specialised systems.

We support customers to harness the value of information they have by intelligently linking data together which empowers them to make effective and efficient decisions in real-time.

JF AIS owns and operates industry-leading digital solutions that are deployed in a diverse range of global markets, including nuclear, defence, oil and gas, mining, offshore renewable energy, marine, transport and infrastructure, and construction.

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