Press release

Moerkapelle, the Netherlands, June 7, 2021

CORROSION and Amphibious Energy join forces to launch the ICCP-POD and help make wind power more sustainable

CORROSION and Amphibious Energy today announced the launch of the new ICCP-POD, an environmentally friendly alternative to using diesel generators to supply energy during the construction phase of wind turbines, and sacrificial anodes to protect turbine foundations against corrosion.

The ICCP-POD combines two advanced technologies. The EnergyPod, developed by Amphibious Energy, is an easy-to-transport autonomous energy plant that uses sun, wind, batteries and intelligent electronics to provide sustainable energy during the 18-month construction of wind turbines, meaning that costly and environmentally unfriendly diesel generators are no longer required.

To protect against corrosion during this construction phrase, CORROSION developed compact ICCP (Impressed Current Cathodic Protection) units. By using an electronic current supplied by the EnergyPod, these represent an innovative eco-friendly alternative to sacrificial anodes, which discharge large quantities of metals and heavy metals into the water. When the wind turbines are installed and grid-connected, the energy supply for the ICCP system is switched from the EnergyPod to the wind turbine itself.

“CORROSION was the first company in the world to develop a cost-effective, easy-to-maintain and environmentally friendly anti-corrosion solution for wind turbines foundations,” said Niels Ros, Manager Offshore Wind at CORROSION. “We are delighted that through this partnership with Amphibious Energy, we are also able to offer the same sustainable protection solutions during the construction phase of wind turbines.”

“By partnering with CORROSION, we are able to bring two unique technologies together, which will drive down the costs for the offshore industry to protect their installations from corrosion in a 100% green way. This represents a big step forward in achieving net-zero operations for the offshore industry,” said Willem van der Merwe, Director at Amphibious Energy.

The ICCP-POD delivers substantial cost savings. Total operating costs over a 5-year period are less than those of a diesel generator. In addition, further savings can be realized in other ways. For instance, by installing uncoated foundations, foundations with a single base coat or utilizing less carbon steel, depending on customer needs and design boundaries.

In terms of environmental performance, CORROSION's ICCP unit provides major benefits. Over a 25-year period, CORROSION's systems discharge approximately 1.5 million times less aluminum into the sea that traditional sacrificial anodes. Furthermore, the EnergyPod is also completely recyclable and can be re-used several times over a period of 5 to 10 years, so that the costs will decrease even further.

Notes to editors

The partnership brings together two leaders in their respective fields:

CORROSION is an internationally recognized leader in anti-corrosion and anti-fouling solutions based in Moerkapelle, the Netherlands. In 2007, CORROSION was the first company in the world to utilize Impressed Current Cathodic Protection (ICCP) technology to protect turbine foundations. It continues to be the market leader, helping to protect over 2,400 wind turbines worldwide that supply electricity to millions of households.

Amphibious Energy is a renewable energy company based in Delft, the Netherlands. Specialists in designing offshore, autonomous and 100% renewable energy power generators, the company combines wind and solar power with storage, in a compact and transportable design. These first-of-its-kind electrical power generators – EnergyPods – are a sustainable, zero-emission alternative to diesel gensets, and offer affordable, reliable and clean energy. Amphibious Energy is actively involved in Central North Sea projects to support operators in becoming net-zero in their operations.

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