



Association of Directors of  
Environment, Economy, Planning & Transport

## ADEPT President's Awards 2022

### Entry form

<b>Award category:</b>	Category 1: Delivering clean growth
<b>Title:</b>	TIGER (Tidal Stream Industry Energiser)
<b>Entrant:</b>	Interreg France Channel England - Norfolk County Council
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<b>Partner/s (if applicable):</b>	Offshore Renewable Energy Catapult, University of Exeter, Cambrian Offshore South West, University of Plymouth, Bretagne Développement Innovation, Electricité de France, Université Bretagne Sud, Morbihan Hydro Energies SAS, HydroQuest, Normandie Hydroliennes, Université de Caen Normandie, Université Le Havre Normandie, European Marine Energy Centre, Minesto, Orbital Marine Power, SEENEOH
<b>Headline summary (150 characters, c. 20-25 words)</b>  Cross-border project TIGER supported by Norfolk County Council drives growth for the Tidal Stream Energy sector around the Channel region since 2019.	

Please note we need **at least one supporting image** per award submission.

Supporting images should be attached separately as jpg or png files.

Please paste links to any supporting video evidence here

Link 1	<a href="https://www.youtube.com/watch?v=w8T8n252_sl">https://www.youtube.com/watch?v=w8T8n252_sl</a>
Link 2	<a href="https://www.youtube.com/watch?v=hXQ4Bji8DNA">https://www.youtube.com/watch?v=hXQ4Bji8DNA</a>



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**500-word project outline** (please ensure you do not exceed the word count and address all the judges' criteria – for more info see [here](#))

Since 2014, Norfolk County Council is the Managing Authority of the EU-funded Interreg France Channel England Programme. The Programme fosters economic development in the south of the UK and north of France by funding innovative projects which have a sustainable cross-border benefit in the area.

Among the projects funded by the NCC-led Programme, **TIGER** is on a mission to drive growth for the Tidal Stream Energy (TSE) sector since its launch in late 2019.

TIGER is building cross-border partnerships to develop new technologies, test and demonstrate them at multiple locations around the Channel region, and use the learning from these activities to make a stronger, cost-effective case for tidal energy as part of our energy mix.

The project aims to drive the growth of TSE by installing up to 8 MW of new tidal capacity at sites in and around the Channel region thus driving innovation and the development of new products and services.

TIGER comprises 18 partners from across the UK and France spanning turbine developers, ocean energy demonstration sites, research organisations, as well as local and regional authorities. It creates economies of scale in the UK and France via volume manufacturing and multi-device deployments.

Among its six development sites, three are based in the UK (Ramsay Sound, Pembrokeshire, Yarmouth Harbour and PTEC both off the Isle of Wight) and three in France (Paimpol-Brehat, Gulf of Morbihan, both in Brittany, and Le Raz-Blanchard in Normandy).

Despite the challenges faced during Covid-19, TIGER has already made an impact for the industry attracting private investment and demonstrating genuine collaboration between technology developers.



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During this period, the project has marked several successes. TIGER has been supporting French tidal developer HydroQuest, who have been operating their Oceanquest device installed at Paimpol-Brehat between 2019 and 2021.

Thanks to the thousands of hours of operation accumulated on this demonstrator, HydroQuest has designed a next generation of tidal turbines which are even more efficient and more powerful, whilst being lighter providing a competitive edge. These turbines will be deployed at a pilot farm of 7 machines of 2.5MW of unit power at the Raz Blanchard, in Normandy. The farm will be operated for a period of 20 years and will produce 40 GWh/year, equivalent to the consumption of 20,000 people.

TIGER also supported the signature of a new Memorandum of Understanding signed by the UK Marine Energy Council and the French Renewable Energies Trade Association.

This agreement further lays the groundwork for continued common initiatives across the Channel, long after the end of the project. Through this agreement, the two partners formally commit to sharing intelligence, best practice and jointly collaborating on key actions in the field of renewable marine energies.

The project activities will eventually lead to a reduction of greenhouse gas emissions of around 11,000 tonnes per year and a tidal energy cost reduction towards €150/MWh. Ultimately, coastal communities used as ports of deployment will benefit from knock-on investment and job creation, leading to an economic increase in GVA of €13 million per year.