## **EXTENSIVE SURVEY ACTIVITY & RESEARCH**

From the choice of location over a decade ago to the most recent geophysical surveys, the Oriel project has been founded on a commitment to research and the best quality environmental analysis.

Over the last three years, we have invested over 30,000 hours studying the offshore area and the proposed cable route and substation location. We are measuring wind speeds, currents, wave height, seabed conditions, sub-sea geology, visual impacts, acoustic impacts to marine and animal life and other environmental factors.

These environmental and technical surveys allow us to create the best

The research activities carried out included

- **Wind Measurement –** two-year campaign of offshore and onshore wind measurements.
- **Geotechnical Investigation** fourteen boreholes drilled in the offshore array area and cable corridor to a depth of over 30m over a 28-day period in March/April 2020.
- **Geophysical Mapping –** 43.8km of geophysical mapping over a 19-day period in August and September 2019.
- Seabird and marine mammal boat and aerial surveys – over 200-days of survey.
- Marine Mammals 12 months of in-sea acoustic monitoring for marine mammals.







