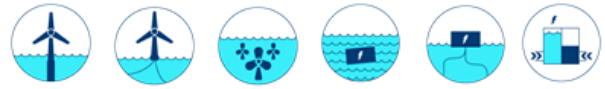


INTERNATIONAL B2B MEETINGS



NANTES - France
20 > 21 MAY 2015



MARINE RENEWABLE ENERGY: International Business Meetings

Special offer to Japanese companies through web meetings

We are pleased to propose you targeted meetings via web-conference with dedicated companies acting in Marine Renewable Energy.

Thousands of companies attend the fair THETIS MRE, on 20th and 21st May 2015 in NANTES, France.

Taking this opportunity, Nantes Saint-Nazaire Développement and the Enterprise Europe Network (via its members the EU-Japan Centre and the CCI Pays de la Loire) propose you International B2B Meetings.

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2MB international

Organisation Name

Country	France
City	Noyal sur Vilaine
Street	70 avenue du Général de Gaulle
Website	http://www.2mb-international.com
Organisation Type	Company



Person

Name	Jimmy LEMONNIER
Job Position	Project manager



Organisation Details

Dears

Strongly experienced in managing projects, engineering and building 2.7-1 certified structures for offshore uses like:

- Control Cabins for clean air or hazardous area
- Zone II diesel or electric prime mover hydraulic Power Packs
- Zone II Winches and various special equipment

Our value added:

- Engineering
- Manufacturing (cutting, punching, bending, machining...)
- Welding qualification and process (aluminium/steel/stainless steel)
- Treatment painting
- Control and test
- Quality management
- Workshop 12000 sqm

Best regards

Areas of Activity

Technology

- Other
- Offshore works / Subsea survey

Category

- R&D / Engineering
- Manufacturer
- Project development

Cooperation Profiles

Know-how / Expertise: Welding of offshore units and components

• Engineering • Welding qualification and process • Treatment • Control and test • Quality management

Main advantages / Avantages

Strongly experienced in managing projects, engineering and building 2.7-1 certified structures for offshore uses

Market application / Marché d'application

Offshore as Onshore

A4TRADUCTION Normandie

Organisation Name

Country	France
City	Rouen
Street	9 rue Georges Braque
Website	www.a4traduction.com/agence-traduction-rouen
Organisation Type	Company



Person

Name	Jacques CERESO
Job Position	Directeur



Organisation Details

Normandie Traduction is a nation-wide Agency offering technical and legal translation services through its network A4-TRADUCTION.

Its knowledge and command of the terminology specific to each profession make it the ideal long-term partner for major international industrial multinationals. The Agency offers support for day to day business and in new projects.

Translation of technical, sales and legal documents:

- Requests for Bids
- Specifications
- Engineering documentation
- Experts' Reports
- End-of-manufacturing Reports
- Technical Datasheets
- User and Operating Manuals
- Quality Manuals
- Training Manuals
- Patents, Reports
- Notifications
- Product datasheets
- Software

Sworn or legalized translation of documents. The Agency completes all administrative formalities.

Interpreting

- Accompanying sales staff during missions abroad
- Interpreting for groups of visitors from abroad
- Simultaneous interpreting during conferences or tele-conferences

Areas of Activity

Category

- Project development

Cooperation Profiles

Know-how / Expertise: Technical and legal translation services

Know how : Knowledge and command of the terminology specific to each profession. Support for day to day business and in new projects using an International translators network We offer : Translation of technical, sales and legal documents Managing DTP Sworn or legalized translation of documents Interpreting

Type of partner sought / Type de partenaires visés

We are looking for: Engineering societies and offices Long term partnership on projects in the field of energy.

ACN-Normandie

Organisation Name

Country	France
City	FLERS
Street	Aristide Boucicaut
Website	
Organisation Type	Company



Person

Name	Daniel ROUX
Job Position	Director of Operations



Organisation Details

ACN-Normandie is a large supplier of metal components, assemblies and metal fabrications in France.

- ACN-Normandie company represents 11 industrial entities employing over 260 people, using 130 machine tools and over 40 welder qualified operators in its 23000 square meter facilities.
- ACN-Normandie offers on the one part the full subcontract manufacturing solution with CNC machining, cutting, punching, tube & sheet metal bending, folding, robot & manual welding, painting booth, and assembling area and on the other part the engineering team capabilities with extensive mechanical, electrical, hydraulic, automation and maintenance know-how .

Areas of Activity

Technology

- Energy
- Offshore wind
- Tidal stream energy
- Naval
- Electric design / Grid connection

Category

- R&D / Engineering
- Manufacturer

Cooperation Profiles

Technology Offer: Extensive metal fabrications services.

ACN-Normandie supplies metal products, components and precision fabrications, and completed mechanical solution in volumes from prototype runs to medium production batches. ACN-Normandie manages your project from your specification to the final acceptance.

Main advantages / Avantages

Production capacity Company organisation and size High value added Large know-how and expertise

Market application / Marché d'application

Energies industry Manufacturing industry Building industry

Type of partner sought / Type de partenaires visés

key account with recurrent production needs

Technology Offer: Electrical fabrications services

ACTIMAR

Organisation Name

Country	France
City	Brest
Street	36 quai de la douane
Website	http://www.actimar.fr
Organisation Type	Company



Person

Name	Françoise GIRARD
Job Position	Responsable études météo-océaniques



Organisation Details

Actimar is an oceanography services company that endeavours to meet the needs of the entire maritime community. Actimar focuses its activities on metocean and coastal studies, value-added high-resolution remote sensing services, and real-time operational oceanography systems.

Actimar est une société de services en océanographie dont l'objectif est d'élaborer des produits spécifiques répondant aux besoins de tous les usagers de la mer. Actimar réalise des études météo-océaniques et littorales, propose des services à forte valeur ajoutée en télédétection haute résolution et développe des systèmes temps réel dans le domaine de l'océanographie opérationnelle.

Areas of Activity

Technology

- Energy
- Offshore wind
- Floating foundation
- OTEC / SWAC
- Wave Energy
- Tidal stream energy

Category

- R&D / Engineering

Cooperation Profiles

Know-how / Expertise: Site assessment, Metocean studies, Environmental impact assessment, Forecasting operational systems

Site assessment • Assessment of the resource and its spatial and temporal variations • Optimization of the positioning of MRE structures
 Metocean studies and impact assessment • Assistance in the design of new structures according to the standards in force, extreme value analysis • Long-term planning of installation and maintenance operations, weather window statistics • Impact of the structures on currents, waves, sediment transport
 Short-term forecasting operational systems • Assistance in installing structures and operating sites • Forecasting of resources in response to metocean variations • Measurements of currents, waves, and wind direction at the sea surface through oceanographic radars • Alarm warnings, metocean reports, risk assessment
 Technical assistance • Technical assistance services, provision of specialist personnel

AFPA

Organisation Name

Country	France
City	nantes
Street	36 rue Paul Bert
Website	www.afpa.fr
Organisation Type	Other



Person

Name	Loïc BRETECHER
Job Position	Ingénieur de Formation



Organisation Details

The AFPA (vocational training association for adults) is setting up a training center dedicated to renewable energies and especially EMR.

As such, it is looking for industrial partners. In addition to training spaces created AFPA wants to provide industrial and business schools a center of research and development acting as a catalyst between training and development.

We are truly listening to the needs of professionals in research training and innovation.

This center would be built to meet current and future needs for renewable energy production (wind, tidal, solar, biomass and geothermal) and then in a second time, to respond to new issues including emerging is the question of storage energy (production of hydrogen for the fuel cell power).

It will also include a wide range of new reality technologies increased as various serious games and virtual simulators.

L'AFPA (association de formation professionnelle des adultes) est en cours de mise en place d'un centre de formation dédié aux énergies renouvelables et en particulier aux EMR.

En tant que tel, l'AFPA est à la recherche de partenaires industriels. En plus des espaces de formation créés, l'AFPA veut fournir aux grandes écoles industriels un centre de recherche et de développement agissant comme un catalyseur entre la formation et le développement.

Nous sommes réellement à l'écoute des attentes des professionnels en termes de formation de recherche et d'innovation.

Ce centre serait construit pour répondre aux besoins actuels et futurs de la production d'énergie renouvelable (éolienne, marémotrice, solaire, biomasse et la géothermie), puis dans un second temps, pour répondre aux nouvelles questions, notamment émergentes comme la question du stockage de l'énergie (production d'hydrogène pour l'alimentation de piles à combustible).

Il intègrera également un large panel de nouvelles technologies de réalité augmenté comme divers serious games et simulateurs virtuels.

Areas of Activity

Technology	Category
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- Energy
 - Offshore wind
 - Tidal stream energy
 - Other
 - Electric design / Grid connection
- R&D / Engineering
 - Other

Cooperation Profiles

Know-how / Expertise: Training and research center

Search and training center dedicated to renewable energies in the service of industrial and colleges to train workers and actors of tomorrow in the field of renewable energies

Main advantages / Avantages

Provide HR solutions for each business partner

Market application / Marché d'application

All renewable energies

Type of partner sought / Type de partenaires visés

Professionals (operators and manufacturers), colleges

Atmocean, Inc.

Organisation Name

Country	USA
City	Santa Fe
Street	1274 Vallecita
Website	www.atmocean.com
Organisation Type	Company

Person

Name	Philip Kithil
Job Position	CEO

Organisation Details

Atmocean Inc is raising \$1.5 million to fund the first wave energy array to be deployed in Peru by December 2015, followed by 100 arrays in 2016-2017 for Peru, Chile, and perhaps qualifying islands. The latter effort will be funded by approximately \$86 million in debt.

Array outputs include: renewable electricity, desalinated water, ice, and pumped seawater for aquaculture, evaporative salt ponds, or algae growing facilities.

Investor information is available in the Atmocean Private Placement Memorandum filed with the US SEC on January 22, 2015. Please contact the CEO for your confidential copy. Investor qualification, including accreditation, is required.

Areas of Activity

Technology

- Energy
- Wave Energy
- Other

Category

- Manufacturer
- Logistics / Installation
- O&M
- Project development
- Other

Cooperation Profiles

Technology Offer: Pumped seawater wave energy array

The Atmocean system sends pressurized seawater onshore to a turbine running a generator, and also to desalination or ice making plants. Other uses of the pumped seawater can be utilized.

Main advantages / Avantages

Simple, low cost.

Market application / Marché d'application

Renewable electricity; desalinated water; ice; aquaculture; salt ponds; algae farms.

Type of partner sought / Type de partenaires visés

Strategic investor or corporate partner.

AXSON FRANCE S.A.S.

Organisation Name

Country	France
City	VIGNEUX DE BRETAGNE
Street	rue Albert de Dion
Website	www.axson.com
Organisation Type	Company



Person

Name	Patrick NOIRCLERC
Job Position	Responsable d'agence



Organisation Details

Advanced formulator !

For more than 80 years, **Axson Technologies** formulate and produce resins, adhesives and numerous other products based on *epoxy and polyurethane chemistries*.

Settled in direct more than 12 countries and in 35 through distribution, **Axson Technologies** produces as close as possible to its customers for a better control of the material flows

Applications range from resins for patterns and forming tools to structural adhesives, without forgetting syntactic resins or systems for composite parts.

Most of the systems proposed to the Renewable Energies Sector are approved by the Lloyd's Register or the Germanisher Lloyd's.

Areas of Activity

Technology	Category
<ul style="list-style-type: none"> Material 	<ul style="list-style-type: none"> Manufacturer

Cooperation Profiles

Technology Offer: Development and production of composite materials

Description: Epoxy resins, Structural adhesives, syntactic resins Aspects Innovants et avantages comparatifs: Products developed and produced in France Genrally Lloyd's Register or Germanisher Lloyd's approved

Know-how / Expertise: EPOXY RESINS, ADHESIVES AND SYNTACTICS

As a formulator for more than 80 years, AXSON TECHNOLOGIES has developed numerous systems and special skills to adapt existing products to your project. among those systems, can be highlighted vacuum infusion systems for tooling and parts, syntactics for hollow parts reinforcement, structural adhesives...

Main advantages / Avantages

Products designed in France, and transferrable all over the world via 6 production sites

Type of partner sought / Type de partenaires visés

EMR systems designers

CAUX SEINE DEVELOPPEMENT

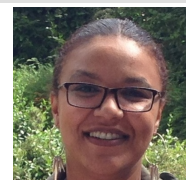
Organisation Name

Country	France
City	BOLBEC
Street	16 BIS AVENUE FOCH
Website	www.cauxseinedeveloppement.com/fr/
Organisation Type	Other



Person

Name	Myriam CAMARA
Job Position	Chargée de Mission



Organisation Details

Caux Seine développement agency supports your business creation and explores with you for free the best strategic positioning for its development.

We offer:

- Support for creation and/or development of your business
- Real estate for public lands on our major activities areas
- Rental or purchase of buildings (workshops/offices), public or private
- Financial engineering
- Support for administrative procedures

Areas of Activity

Technology

- Other

Category

- Project development

Cooperation Profiles

Know-how / Expertise: Energy and materials

Some history... During the first half of the 20th century, the region was a major area in Europe for the textile industry as for refining and petrochemicals industry. However, in spite of this strong industrial development, the region has kept rich agricultural culture, know-how and resources. Consequently, using its strong experience in industry and its resources, the region claims to develop new opportunities especially in: • Sustainable energy as biofuel, which is now product from wheat. Innovation is working on a new process using non alimentary resources. Moreover, the region is now exploring opportunities to develop solar and wind energy. Our area, closed to the channel, has strong wind energy potential. • Biosourced polymer materials have similar, or even superior, properties than fossil based ones. Those natural polymers are biodegradable and light. Industries such as automotive and aeronautic are on demand for such specifications. A strong partnership between agricultural sector and industry will provide a good support for the growth of those activities. Innovation is the key to success. Consequently, the region has to attract and retain research and development departments by providing the best environment to lead them to wealth and success.

Know-how / Expertise: Are you creating a company? Are you developing your activities? We will help you to set up

Caux Seine développement agency supports your creation and studies with you for free the best strategic position for its development. Whatever your project is, we are glad to invite you at La Maison des Entreprises. This unique place grouping The Chamber of Commerce and Caux Seine développement (how to find us). In a visit, you will have access to: • Creation, buyout and transmission of firms, consultancy for decision • Centre de Formalité des Entreprises (information on regulations, declaration for your firm SIRET, certificates, inscription for social organisms, etc...) • All avail-

abilities for greenfields, brownfields or premises, support to define your technical setting-up • Development consulting and financial engineering • Consulting in human resources

Main advantages / Avantages

We offer: • Supporting your creation and/or development of your firm • Real estate for public greenfield on our major activities area • Buildings to rent or buy, workshops/offices, public or private • Financial engineering • Support for administrative procedures... We are operating by your side to help you in your procedures and support your inquiries: take advantage of our network, you will spare time to focus on your production not your production. You are hesitating to recruit, some incentive are available. Contact us. We will help you to join entrepreneurs' networks fitting your localization and you activities.

Centre Technique des Industries Mécaniques

Organisation Name

Country	France
City	NANTES cedex 3
Street	74, Route de la Jonelière - CS 50814
Website	http://www.cetim.fr
Organisation Type	Technical Centre



Person

Name	Jean LECOZ
Job Position	Responsable Commercial Technologies de l'Etanchéité

Organisation Details

CETIM was set up more than 45 years ago on the joint initiative of the French government and the French Federation of Mechanical Engineering Industries (FIM) with the aim of pooling resources and technical skills based on funding by a designated tax. Today **CETIM** is France's largest Industrial Technical Centre (CTI). With a staff of nearly 700 - for the most part engineers and holders of doctorates - spread over three main sites (Senlis, Nantes and Saint-Etienne), CETIM is now France's benchmark institute in the field of mechanical engineering. It holds the Carnot label awarded by the French Ministry of Research.

CETIM is organized into **13 different expertise departments** and in particular the **Sealing Technologies Department**.

Le Centre Technique des Industries Mécaniques (CETIM) a été créé en 1965, à la demande des industriels de la mécanique afin d'apporter aux entreprises des moyens et des compétences pour accroître leur compétitivité, participer à la normalisation, **faire le lien entre la recherche scientifique et l'industrie**, promouvoir le progrès des techniques, aider à l'amélioration du rendement et à la garantie de la qualité.

- Le Cetim s'oriente vers des **programmes de recherche technologique** et organisationnelle, dans un contexte de plus en plus ouvert au niveau européen et international.
- Le Cetim comporte **13 pôles d'activités dont le pôle des Technologies de l'Etanchéité**
- Le Cetim est labellisé Institut Carnot depuis 2006.

Areas of Activity

Technology	Category
<ul style="list-style-type: none"> • Energy • Offshore wind • Floating foundation • OTEC / SWAC • Wave Energy • Tidal stream energy • Naval • Material • Osmotic • Other 	<ul style="list-style-type: none"> • R&D / Engineering

Cooperation Profiles

Technology Offer: Sealing Technologies applied to MRE / Technologies de l'Etanchéité appliquées au EMR

The CETIM Sealing Technologies department has unique competencies in the following activities: - Expertise in leak rate measurement : detection, localization, quantification - Sealing mechanisms, modelling, design - Qualification and characterization of sealing systems Example of study: Reliability testing of a one-meter diameter seal for Alstom

Ocean (tidal stream turbine) <http://www.cetim.fr/en/Services/References/Alstom-Ocean>

***** Les trois principales missions du pôle des Technologies de l'Étanchéité du CETIM sont: -
L'expertise en mesure de fuite - La modélisation des mécanismes d'étanchéité - La mise en place et réalisation
d'essais de caractérisation de systèmes d'étanchéité Le pôle Technologie De l'Étanchéité (TDE) a notamment une ex-
pertise dans l'analyse des étanchéités statiques et dynamiques par joints élastomères aussi bien sur le plan expéri-
mental que numérique. Le pôle a réalisé depuis une dizaine d'années, des projets de R&D concernant le comporte-
ment des joints à lèvres élastomères (études expérimentales et modélisation des phénomènes de lubrification) et des
études expérimentales pour différents domaines industriels. Au sein de son laboratoire, des moyens d'essais impor-
tants permettent de caractériser et qualifier les étanchéités des produits ou équipements soumis à des conditions
proches du service notamment en pression et température. Etude récente réalisée: Essai de fiabilité de joint
d'hydrolienne pour Alstom Ocean <http://www.cetim.fr/fr/Prestations/References/Alstom-Ocean>

Environmentally Sustainable Systems t/a ESS Ecology

Organisation Name	
Country	United Kingdom
City	Edinburgh
Street	70 Cumberland Street
Website	http://www.ess-ecology.com/
Organisation Type	Company

Person	
Name	Christina Hellevik
Job Position	Project Manager

Organisation Details

As the UK market-leader in ornithological and marine mammal surveys, assessments and monitoring for the offshore renewables industry since 2001, ESS Ecology has the capability, capacity and experience to successfully design, implement and manage seabird, marine mammal and now benthic habitat surveying capabilities using established and innovative methods. Our large surveyor team enables us to mobilise throughout Europe including in France.

For over 14 years we have worked with offshore wind developers and Tier 1 clients at all stages of projects, from pre-consent, through construction to post construction monitoring, providing Environmental Impact Statement Chapters and monitoring studies as stipulated by Marine Licenses. ESS Ecology offer the highest standards of future-proofed survey design, data collection, analysis and reporting, fully meeting all statutory requirements.

Our extensive experience enables us to implement the most suitable survey and statistical methods and provide focused studies to address key questions built upon exhaustive searches and evaluation of existing data, then accurately collecting the highest quality data.

ESS Ecology reports and expert advice help reduce risks, contribute to project risk registers, solve problems and avoid costly delays to offshore renewable projects progress smoothly through the consenting, construction and operational stages. Our Integrated Management Systems, policies & procedures are verified and scored 94 -100% by Achilles' Utilities Vendor Database (UVDB) Verify scheme and certified to ISO 9001, 14001 and OHSAS 18001.

Areas of Activity

Technology	Category
<ul style="list-style-type: none"> Offshore wind Wave Energy Tidal stream energy Offshore works / Subsea survey Environment 	<ul style="list-style-type: none"> Project development Service providers / Consultancy

Cooperation Profiles

Know-how / Expertise: Franco-British Marine Ecological Collaboration

ESS Ecology have worked on both English Channel Round 3 Zones (Navitus Bay & Rampion), and the following UK offshore wind farm sites Greater Gabbard, Galloper, 3 Scottish sites, Barrow, Walney, Ormonde, Rhyl Flats, North Hoyle, Thanet, Sheringham Shoal, Docking Shoal, Tunes Plateau, Kentish Flats, Inner Dowsing and Lynn. This work has involved nine years of ongoing bird surveys and statistical analysis of key bird species at Greater Gabbard, and Galloper during consent, construction, and operation since project inception in 2004 providing clients and regulators with highest value seabird and marine mammal data, novel survey methods to monitor collisions and inform collision risk, and statistical analysis of displacement and attraction. For Eneco working alongside PMSS, we collected bird and marine mammal data collection for Navitus Bay for Zone Appraisal Planning including a migration programme to quantify and characterise migration passage. For Centrica/AMEC/RES we applied novel survey techniques for migrant birds at Inner Dowsing, Lynn, Tunes Plateau. We wrote both the Inner Dowsing Ornithology Environment Statement chapter and Report to Inform Appropriate Assessment. For RWE/Vattenfall, our analysis and presentation of five years of survey data closed off monitoring conditions for Kentish Flats and North Hoyle, including investigating changes in use of windfarm

area and barrier effects. ESS Ecology provided mitigation for seabirds at Rhyl Flats enabling longer construction periods.

Main advantages / Avantages

Experience over 19 offshore wind farm projects in the UK.

Type of partner sought / Type de partenaires visés

To embark into joint commercial or research projects with French offshore renewable players; to learn of how and when ESS Ecology can assist with ecological surveys, EIA, consent advice, negotiating monitoring, and to learn what are the timings of planned invitations to tender for all ecology works.

ETPO

Organisation Name

Country	France
City	NANTES
Street	place du Sanitat
Website	www.etpo.fr
Organisation Type	Company

Person

Name	LEBASTARD Pierre-Jean
Job Position	Chief of department of marine works, bridges and harbours equipments



Organisation Details

ETPO is one of the last independant middle-sized companies in France (100 millions euros turnover, 170 for the Holding CIFE), the business of which stands on three departements : building construction, bridges and civil works, marine works.

PJ Lebastard is in charge of these two last departments; the worksites in progress are : roll-on roll-off terminal in Montoir / St Nazaire for windfarms Alstom factories (Port of Nantes-St Nazaire authority), MRE plant 15 nautics off the coast of Le Croisic (ECN 's SEMREV Project) with hub, connectors and cables to be set 40 meters depth, La Pallice (La Rochelle) 20 meters wharf, mooring berth dolphins alogside Loire river...

ETPO owns barges, pontoons and vibrators/hammers for piling; its TETIS subsidiary is in charge with subaquatic works. ETPO owns its proper survey department, and is qualified ISO 9001, 14001 and 19001. ETPO has been distinguished with RSE behaviour (societal respoonsablity)

Areas of Activity

Technology

- Energy
- Offshore wind
- Floating foundation
- Wave Energy
- Offshore works / Subsea survey

Category

- R&D / Engineering
- Logistics / Installation
- O&M
- Project development
- Service providers / Consultancy

Cooperation Profiles

Know-how / Expertise: Our offer deals with marine possibilities (barges, subaquatic works, aso...) to support and go with all types of MRE installations : piles, dolphins, concrete works offshore, on the foreshore and ahead,

Main advantages / Avantages

Local company based in Nantes Marine barges and other means based in St Nazaire

Type of partner sought / Type de partenaires visés

Industrials seeking ways of implementation and maintenance

Know-how / Expertise: Sea-river works / Travaux fluvio-maritimes

Mobilizing all services pontoons, divers, threshing means and vibrodriving. Toutes prestations mobilisant pontons, scaphandriers, moyens de battage et vibrofonçage.

FMGC

Organisation Name	
Country	France
City	Soudan
Street	ZI de Hochepie
Website	www.farina.com/companies/fonderie-et-mecanique-generale-castelbriantaise
Organisation Type	Company



Person	
Name	Benoît LEROUX
Job Position	Market researcher & Innovation Manager for NRE/MRE



Organisation Details

FMGC is a foundry, located near Nantes, specialized in the conception, the manufacturing, and the marketing of Iron Counterweight for cranes, handling engine and yachting. We supply this type of products for: Manitou, Toyota, Pinguely-Haulotte, Dufour, JLG, Komatsu, Liebherr, Manitowoc, Demag Terex, Linde, Nissan, MCI and Volvo.

Our new products of Iron Ballast Solutions in Offshore sector concerned notably Marine Renewable Energy (Wind Power, Wave Power and Tidal Power) and Oil & Gas. Transversally we work on this products: Anchors, Mooring, Clump Weight and Iron Shell for Subsea Cable Protection.

FMGC, due to its expertise, is capable of supplying a whole range of ballasting solutions in cast iron, from the smallest to the largest one up to 20 tons. We can create complete assembly able to ballast your installations of several thousand tons, and always with a high level of finishing and quality.

We have equipment to produce and handle heavy loads of large dimensions and we have a coordinate measuring machine. We also have in-house a mechanical engineering office, an electrical and automatism engineering office, as well as Autocad software, and SolidWorks.

We also has integrated workshops for painting and machining.

We have ISO certifications 9001 and ISO 14001, QSE approach.

Finally, FMGC use recycled materials in our production of cast iron ballast. So, after dismantling our product is 100 % recyclable. The process is environmentally friendly.

Areas of Activity

Technology	Category
<ul style="list-style-type: none"> Energy Offshore wind Floating foundation OTEC / SWAC Wave Energy Tidal stream energy 	<ul style="list-style-type: none"> R&D / Engineering Manufacturer

Cooperation Profiles

Technology Offer: High density ballast solutions / Solution de ballast haute densité

High density ballast solutions / Solution de ballast haute densité

Main advantages / Avantages

Decrease size and cost of the foundation structures Diminution de la taille et du coût de la structure des fondations

Know-how / Expertise: Cast Iron for ballasting solutions.

FMGC is interesting to develop iron products customized to Marine Renewable Energy technologies. We can supply several type of products such as : Ballast/Counterweight, Clump weight, Mooring, Iron shell for Subsea Cable Protection, etc.

Main advantages / Avantages

With Cast Iron we can reduce significantly the size of the need ballast. The cost reduction will be realize by savings generate in all of the valour chain. At the end of the exploitation, all of the ballast is recyclable et recoverable at a good price. In the case of a prototype project, we can adapt the price of this solution by public funding.

Market application / Marché d'application

Offshore Market such as : Oil & Gas, Marine Renewable Energy (Wind, Tidal, Wave, etc.)

Type of partner sought / Type de partenaires visés

All industrial actors.

FoundOcean

Organisation Name

Country	United Kingdom
City	Livingston
Street	Telford Square
Website	www.foundocean.com
Organisation Type	Company

Person

Name	Ken TAYLOR
Job Position	Business Development Manager

Organisation Details

We specialise in the offshore subsea grouting of foundation structures for the global energy industry. Having worked in the oil & gas sector for almost 50 years, we expanded into the offshore renewables sector in 2010. We have now worked on 17 offshore renewables projects, with more due to start soon. We secure the foundations to the seabed - and ensure their ongoing integrity.

Areas of Activity

Technology

- Offshore wind
- Floating foundation
- Wave Energy
- Tidal stream energy
- Material

Category

- Logistics / Installation

Cooperation Profiles

Know-how / Expertise: Offshore foundation installation

Description: Grouting of offshore turbine and substation foundations. Innovation/benefits: We have introduced new (award winning, and proven) technology specifically to speed up the offshore installation process whilst improving health and safety.

GO-ELS Ltd.

Organisation Name	
Country	Belgium
City	Limal
Street	Rue Marc Brison 10G
Website	
Organisation Type	Company



Person	
Name	Christopher Golightly
Job Position	Geotechnical Consultant



Organisation Details

An independent geotechnical consultant based in Brussels, Dr. Chris Golightly obtained a degree in Civil Engineering and an MSc in Engineering Geology in the UK and then worked for Arup in civil engineering geotechnical investigation and design, followed by three years as a PhD Research Assistant at Bradford University. In 1990 he completed a British Royal Society Post-Doctoral EC Science Fellowship at the French Petroleum Institute in Paris and other research institutions in France. After a further two year period in civil engineering consultancy in the UK, he joined Fugro Engineers BV in The Netherlands in early 1992 as a Senior Geotechnical Engineer and Team Leader, working on a variety of offshore, nearshore and onshore projects, mostly outside Europe.

In July 1997 he joined BP in London and managed major studies into the risk to offshore facilities from major “geohazards” (mud volcanoes, faulting, slope instability) in the South Caspian, and organising/supervising offshore site investigations. He moved to Brussels in September 1999 as Senior Geotechnical Engineer with SAGE/Thales Geosolutions then in February 2003 joined Shell in The Hague responsible for geotechnical and seismic design on LNG, GTL and other projects. In October 2005 he started working as an independent consultant.

Since the Summer of 2010 Dr. Golightly has focused on offshore renewables, completing reviews and Technical Due Diligence for several German and UK offshore wind projects. During 2011 he worked with EDP Renovaveis, managing French offshore wind desk studies and defining preliminary feasibility foundation design engineering. He recently carried out Investigations into Gravity Base Structures [GBS] for all European “market ready” GBS designs and on anchoring and foundations for floating wind and tidal markets.

During 2015 consultancy work will continue to focus on offshore wind and tidal projects. Clients include developers, consultants, certification agencies, insurance underwriters and govt. funded/private research organisations. Development work on a hybrid GBS offshore foundation solution specifically aimed at offshore wind and tidal foundation structures is ongoing. A recent research study aimed at defining potential markets for development of an ROV controlled subsea drilling unit for floating offshore wind and tidal turbine fixed structure piling and taut moored tension anchoring was completed.

In 2015 he will commence membership Offshore Wind Working Group (WG4) of the European Wind Technology Platform for a period of three years.

Areas of Activity

Technology

- Energy
- Offshore wind
- Floating foundation
- OTEC / SWAC
- Wave Energy

Category

- R&D / Engineering
- Project development
- Service providers / Consultancy

- Tidal stream energy
- Offshore works / Subsea survey

Cooperation Profiles

Technology Offer: Subsea Anchored Foundation Template [SAFT]

The SAFT, Seabed Anchored Foundation Template, is a concept for use as a floating offshore wind, tidal turbine and wave energy converter permanent skirted scour protected mooring point. Built onshore, this would be floated out to locations and lowered to the seabed. There will need to be a parallel development of an ROV controlled drilling system able to install 150 to 300 mm diameter single or multi strand tensile rock anchors, 1.2 to 2.5 m diameter drilled and grouted anchor piles into fresh bedrock and/or small diameter Helical Screw Piles down to the top of weathered rockhead. This combination of conventional tubular steel or helical screw piles, anchor piles and external and internal skirts can provide tension axial resistance and huge lateral resistance. The SAFT template would be a permanent scour protected mooring and access platform point with a "plug-in" mooring line connection. The following video provides an idea of the concept: <http://bladeoffshore.com/our-company/blade-offshore-remote-drilling>

Main advantages / Avantages

Better, cheaper, higher capacity method of seabed anchoring of floating renewable energy devices at shallow rock sites, in water depths over 40 m.

Market application / Marché d'application

1. Wind Fixed Structures [WFS]; 2. Wind Floating Units [WFU]; 3. Tidal Fixed Structures; [TFS]; 4. Tidal Floating Units [TFU]; 5. Wave Energy Converters [WEC]; 6. Ocean Current Energy [OCE]; 7. Ocean Thermal Energy [OTE]; 8. Offshore Subsea Energy Storage [OSES]; 9. Moored Floating Structures [MFS].

Type of partner sought / Type de partenaires visés

Major specialist geotechnical contractor/subsea engineering company.

Know-how / Expertise: Geotechnical Consultant

Dr. Chris Golightly is a fully independent geotechnical consultant based in Brussels. He obtained a degree in Civil Engineering at Manchester University and an MSc in 1982 in Engineering Geology from Durham University and then worked for Arup in civil and structural engineering related geotechnical investigation and design. This was followed by three years as a Research Assistant at Bradford University investigating the fundamental properties of calcareous soils and rocks, in the context of offshore pile design, for which he was awarded a PhD in 1989. Following this he completed a British Royal Society Post-Doctoral EC Science Fellowship, in 1989 and 1990, at the French Petroleum Institute in Paris and other research institutions in France. After a further two year period in civil engineering consultancy in the UK, he joined Fugro Engineers BV in The Netherlands in early 1992 as a Senior Geotechnical Engineer and Team Leader, working on a variety of offshore, nearshore and onshore projects, mostly outside Europe. In July 1997 he joined BP as part of the Petrotechnical Resource "New Developments" team based in West London. Most of this period was spent project-managing a major study into the risk to offshore facilities from major "geohazards" (mud volcanoes, faulting, slope instability) in the South Caspian, and organising/supervising offshore site investigations. He moved to Brussels in September 1999 as Senior Geotechnical Engineer with SAGE/Thales Geosolutions. In February 2003 he joined Shell in The Hague as Senior Geotechnical and Seismic Engineer, responsible for geotechnical and seismic design on LNG, GTL and other projects. In October 2005 he started working as an independent consultant. Since the Summer of 2010 Dr. Golightly has focused on offshore renewable, completing Technical Due Diligence for several German offshore wind projects and review work for UK Round 3 sites. During 2011 he worked for EDP Renovaveis as an external consultant, managing desk studies and defining preliminary feasibility foundation design engineering. He recently carried out Investigations into Gravity Base Structures [GBS], assessing all European "market ready" GBS designs. During 2015 consultancy work will continue to focus on offshore wind and tidal projects. Clients include developers, consultants, certification agencies, insurance underwriters and govt. funded/private research organisations. Development work on a hybrid GBS offshore foundation solution specifically aimed at offshore wind turbine and tidal scheme foundation structures is ongoing. A recent research study aimed at defining potential markets for development of an ROV controlled subsea drilling unit for floating offshore wind and tidal turbine fixed structure piling and taut moored tension anchoring was completed. In 2015 he will commence membership Offshore Wind Working Group (WG4) of the European Wind Technology Platform for a period of three years.

Main advantages / Avantages

Extensive experience and expertise in offshore and onshore geotechnical engineering advice and consultancy gained in the oil industry and lately in offshore wind, wave and tidal projects.

Market application / Marché d'application

1. Wind Fixed Structures [WFS]; 2. Wind Floating Units [WFU]; 3. Tidal Fixed Structures; [TFS]; 4. Tidal Floating Units [TFU]; 5. Wave Energy Convertors [WEC]; 6. Ocean Current Energy [OCE]; 7. Ocean Thermal Energy [OTE]; 8. Offshore Subsea Energy Storage [OSES]; 9. Moored Floating Structures [MFS].

Type of partner sought / Type de partenaires visés

Offshore wind, wave and tidal energy developers, major consultants, banks, lenders and investors.

HydrOcean

Organisation Name

Country	France
City	NANTES
Street	8 boulevard Albert Einstein
Website	www.hydrocean.fr
Organisation Type	Company



Person

Name	Olivia THILLEUL
Job Position	In charge of MRE studies



Organisation Details

Hydrocean is a company specialised in marine CFD:

- Expertise in marine industry (Naval, Marine Renewable Energy, Offshore, Yachts)
- 20 high qualified CFD engineers
- Spinoff from EcoleCentrale Nantes Fluid Dyn. Lab.

Hydrocean has a unique numerical towing tank :

- A unique range of numerical solvers
- Unlimited number of licences
- Large CPU power : use of around 100 to 200 cores for a standard CFD study, access to over 2000 CPU cores
- Access to experimental

Hydrocean provide expertise in complex hydrodynamics with numerical modeling:

- Damping and added mass coefficients computations
- Aerodynamic coefficients computations
- Modelling of critical phases during installation
- Optimisation of the design of tidal turbines (blades and substructures)
- Seakeeping of floating offshore wind turbines
- Nonlinear wave loads (offshore wind turbines foundation)
- Computations of extreme wave impacts
- Estimation of ships operability over one year on offshore wind farms (installation and maintenance ships)

Areas of Activity

Technology

- Offshore wind
- Floating foundation
- Wave Energy
- Tidal stream energy
- Naval

Category

- R&D / Engineering
- Service providers / Consultancy

Cooperation Profiles

Technology Offer: Expertise in Hydrodynamics: Numerical modelling (CFD) and seakeeping

Description: We offer services to our devices developpers: - Save time at design stage with fast evaluation of their design - Improve efficiency of their device by numerical optimisation - Reduce design risks: by modelling their device behaviour, on long time and facing extreme environmental events (wave, wind...) - Decrease reasearch costs Innovative aspects and main advantadges / benefits: - Innovating numerical simulation tools: enable to model complex flows, waves impacts... (SPH flow solver) - CFD tools coupled to efficient wave models (SWENSE / HOS) to model regular and irregular waves very accurately - CPU power: access to over 2000 CPU cores, around 200 for a classical CFD study

Leroux & Lotz Technologies

Organisation Name	
Country	France
City	Nantes
Street	10 rue des usines
Website	www.lerouxlotz.com
Organisation Type	Company



LEROUX & LOTZ
Groupe Altawest A^v

Person	
Name	Laurent Dervaux
Job Position	Business Development Manager



Organisation Details

Supplier of turnkey equipment in the fields of Energy and Environment : Oil&Gas onshore/offshore, nuclear, environment sectors.

- Heavy industrial equipments : special machines, test benches, handling equipment, pipe laying equipment, etc.
- Modular Process Units for the production of lubrican, grease, etc.
- Industrial water tube boilers and "boiler islands" up to 150 MWth

Areas of Activity

Technology	Category
<ul style="list-style-type: none"> • Energy • Offshore wind • Tidal stream energy • Naval • Offshore works / Subsea survey • Environment 	<ul style="list-style-type: none"> • R&D / Engineering • Manufacturer

Cooperation Profiles

Know-how / Expertise: Test Benches large capacity

LLT have experience in several large test benches, including for tidal stream turbines, wind turbine generator (6MW), and in the ofshore area for fatigue testing of flexible pipes up to 1000 t. LLT has generally a s strong experience in large mechanical equipment (units up to 200t are common).

Main advantages / Avantages

Client satisfaction, First of a kind systems Turnkey

Market application / Marché d'application

Protoype testing or testing at end of assembly lines, for wind turbine or tidal turbines assembly plants.

Know-how / Expertise: Large size turnkey tooling/equipment for assembly lines or production lines

LLT supplies for its customer large size tooling for production lines or assembly lines. This may be : handling equipment (for loads up to 200t +, translation, rotation, very accurate positioning), production rotating machineries (ex: for the production of unbounded flexibles pipelines or umbilicals), tensioners, etc.

Main advantages / Avantages

Client satisfaction, Large size /heavy weight (sea transportation if needed - access to quayside) Fists of its kind

Market application / Marché d'application

Assembly lines or production lines of wind/tidal turbines or components.

Know-how / Expertise: Deck equipment for offshore installation operations

Bespoke equipment for specific purposes during the installation operations of offshore campaign of clients such as Technip or subsea 7. Examples : - mechanical system to handle strings of anchor lines (translate/rotate string up to 150t) to perform alignment and connection of several strings to constitute and lay FPSO anchor lines (Pazflor project). - Push-out & damping system installed underneath a rigid pipeline laying tower to help during the deployment phase of PLETs structures through the waves.

Main advantages / Avantages

Client satisfaction First of its kind Similar in size/mechanics/hydraulics/environment/etc. with equipment that could be needed for wind turbine or tidal turbine installation campaigns

Market application / Marché d'application

Installation of wind and tidal turbines

Mojo Maritime France SAS

Organisation Name

Country	France
City	Nantes
Street	1 rue Du Guesclin
Website	http://mojomaritime.com/
Organisation Type	Company



Person

Name	Maxime Morandea
Job Position	Head of Subsidiary



Organisation Details

Mojo Maritime specialises in Project Management, Engineering and Consultancy services for the marine renewable energy industry.

Over the last 10 years, we have built a successful track record supporting a wide spectrum of clients across the marine energy sector. This has involved our experienced, multi-disciplinary team being involved in projects which encompass a full range of company sizes, technologies and stages of development both in the United Kingdom and France as well as abroad. However, what they all have in common is that they have all benefited from Mojo's experienced hands-on approach backed-up with high level technical rigor. In return, the team has developed an intimate understanding of the challenges faced in offshore renewables.

Mojo are unique because we use an integrated team for these operational, consultancy and engineering projects which has resulted in high quality pragmatic solutions which reduce risk and cost.

In recent years, Mojo Maritime has moved to develop multiple innovative products which embody the principals of significantly reducing the risks and costs associated with offshore renewable energy projects. These include a novel high flow installation vessel design (HF4), a marine economic risk management tool (Mermaid), cable management system and low motion platform.

Offshore Operations

The company has been involved in a number of marine operations projects for leading tidal, wave and offshore wind developments. There is also heritage experience within the team of Oil & Gas operations, marine civil engineering projects and port operations. This combines to give the company exceptional understanding of the issues faced during the installation of large subsea structures and offshore mooring systems.

We are very well versed in the operational constraints when working with marine energy devices and as such are well placed to provide a detailed review of the lessons learned from previous installations. In fact, we have advised a number of leading companies on the most effective and site specific installation methodology and the reasons for selecting the proposed method. These proposals are provided in report format and detail the issues inherent in specific approaches in regard to such areas as foundation design, installation methodology, vessel availability, environmental conditions and local infrastructure.

Engineering Services

As a result of the experience gained in early marine renewable projects, it became apparent that innovative technical solutions would be required in order to reduce the risk and cost associated with the offshore renewables industry. Consequently, it was identified that an in-house engineering and analysis capability was required to support the operational team. This has now grown into a team of engineers with extensive experience across a wide range of marine, subsea and civil engineering disciplines gained in both the marine renewable and oil and gas industries. This collective experience also includes backgrounds in naval architecture, hydrodynamics, mechanical engineering, software engineering, design, remote subsea intervention and ROV tooling.

Over the last few years, there has been a marked increase in the amount of external design, engineering and consultancy work being undertaken by the Mojo team which has led to a growing reputation for providing smart solutions in the offshore environment.

Areas of Activity

Technology

- Energy
- Offshore wind
- Floating foundation
- OTEC / SWAC
- Wave Energy
- Tidal stream energy
- Naval
- Offshore works / Subsea survey

Category

- R&D / Engineering
- Logistics / Installation
- O&M
- Service providers / Consultancy

Cooperation Profiles

Technology Offer: HF4 Vessel

The HF4 is a state-of-the-art, high performance, dynamic positioning vessel capable of operating in extreme environments. The HF4 greatly increases operational windows thereby decreasing project costs. She has been developed through a series of patented concepts which address the installation and through-life design challenges inherent to offshore projects. Class: Det Norske Veritas DNV GL +1 A1, CLEAN, CRANE, DYNPOS-AUTR, ECO, NAUT-OSV(A), SPS

Main advantages / Avantages

Rapid Dynamic Positioning - Capable of positioning dynamically (DP) in up to 10kts (5.14m/s) of current. Capable of in-field thrust in DP mode. Exceptional manoeuvrability - Symmetric hullform efficient in all directions. Flexible, modular design - Versatile vessel suitable for a range of offshore services. Low operating costs - Increased operational window & optimised manning philosophy decreases costs. Fuel efficient - Optimised hullform results in high fuel efficiency. Large deck space - Catamaran configuration increases deck space for offshore operations. Environmentally friendly - Reduced noise & flow speed around Voith Schneider Propellers decreases environmental impact.

Market application / Marché d'application

Offshore Wind (Inter-array cable installation, O&M operations), Tidal

Type of partner sought / Type de partenaires visés

Project Developers, Finance

Technology Offer: Mermaid Software

Marine Economic Risk Management aid (Mermaid) is a comprehensive software toolkit developed by Mojo Maritime to consider the impact of scheduling and metocean conditions on complex marine operations. Mermaid allows users to realistically simulate marine operations, thereby uncovering risks and critical operations prior to going offshore. Mermaid has been developed from an offshore managers perspective. It has been used in multiple academic papers and validated on actual projects.

Main advantages / Avantages

Analysing Risk: Detailed Project Scheduling, Elaborate Vessel & Task Parameters, Extensive Site Specific Datasets Understanding Risk: Time Based Variability, Critical Task Identification, Detailed Operational States Mitigating Risk: Infinite Analyses, Project & Method Comparisons, Elaborate Optimisation Tools

Market application / Marché d'application

Oil&Gas, Offshore Wind, Wave&Tidal

Type of partner sought / Type de partenaires visés

Project Developers, Marine Operations Contractors, O&M Operators, Insurance

Know-how / Expertise: CAST Software

Challenges revolving around subsea cable fatigue and cable stability have been identified as main areas of concern for marine renewable energy projects; for subsea cables to meet their design life and remain cost-effective, movement and vibration should be minimised. Although this can be achieved by external cable protection measures, the need for these systems can be partly mitigated by optimising cable routes. CAST is a unique software tool developed to optimise subsea power cable routes. Designed around a revolutionary cable analysis methodology the tool combines a cable's hydrodynamic properties with the seabed geometry to assess its stability. Using multiple iterations, it provides

the optimal route within the pre-set requirements. Using user centric 2D and 3D visualisation techniques with intuitive routing controls, the tool provides appealing, useful insights in different routing options and their advantages and disadvantages.

Main advantages / Avantages

Cable Route Analysis Cable Route Optimisation CFD Integration RPL Reporting Factor of Safety Analysis GIS Integration

Market application / Marché d'application

Oil&Gas, Offshore Wind, Wave&Tidal

Type of partner sought / Type de partenaires visés

Project Developers

Oglaend System

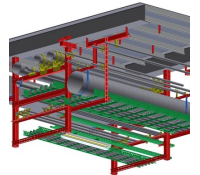
Organisation Name

Country	Norway
City	Kleppe
Street	P.O. Box 133
Website	www.oglaend-system.com
Organisation Type	Company



Person

Name	Pascal MULLER
Job Position	Market Manager France



Organisation Details

Are you interested to save costs and weight on your disciplines (EI&T- HVAC - Piping) supports, with safe and reliable solutions already used worldwide in the oil & gas offshore industry ?

Areas of Activity

Technology

- Energy
- Offshore wind
- Wave Energy
- Tidal stream energy
- Naval
- Material
- Offshore works / Subsea survey
- Electric design / Grid connection
- Environment

Category

- Manufacturer

Cooperation Profiles

Technology Offer: Multi-discipline support systems (for Electrical, Instrumentation, Telecom, HVAC, Piping)

Save costs and weight on all structures by the efficient "Mekano™" system that has proven its success on major offshore oil & gas and wind projects.

Main advantages / Avantages

More versatile than the conventional welded support system, Oglaend "Mekano™ channels" and all their accessories allows operators, engineering companies, and contractors to save time, costs and weight. It comes with various options of materials including stainless steel or fiberglass that allows to satisfying the most difficult environments

Market application / Marché d'application

All offshore or coastal EI&T, HVAC, Piping installations that demand safety, reliability, costs and weight reduction and installation versatility.

Type of partner sought / Type de partenaires visés

Operators, end-users, specifiers, contractors interested to find new solutions that have already demonstrated their efficiency.

Oldbaum Services Limited

Organisation Name	
Country	United Kingdom
City	Stirling
Street	Unit 13a, The Alpha Centre, Stirling University, Innovation Park
Website	www.oldbaumservices.co.uk
Organisation Type	Company



Person	
Name	Tina KOENIG
Job Position	Communications and Business Development

Organisation Details

Oldbaum Services is a leading wind energy consultancy specializing in wind data services onshore and offshore.

The company has delivered over 17 GW of wind technical services since 2005. We can assist the client at each stage of the wind farm process - from commissioning of LiDAR instruments in the planning stage & carrying out site assessments, to wind turbine optimisation and post-wind farm construction noise assessment once the wind farm is set up.

We are active in the UK, Europe, India, Taiwan and Brazil. Our team has worked with seven oil and gas platforms to acquire wind speed data.

As an independent consultancy our team can recommend the right wind data instrument suited to your site/ project. We can offer all types of LiDAR systems: ground-based, scanning, nacelle, as well as floating LiDARs. Oldbaum are agents for AXYS Technologies' WindSentinel - an offshore wind resource assessment buoy which has been designed to lower the cost of offshore wind resource assessments.

Through client focus and an understanding of project development, we have developed a reputation of skill, knowledge and flexibility within the wind industry.

Areas of Activity

Technology	Category
<ul style="list-style-type: none"> Energy Offshore wind Other 	<ul style="list-style-type: none"> R&D / Engineering

Cooperation Profiles

Know-how / Expertise: Wind Data services+agents for AXYS WindSentinel floating LiDAR

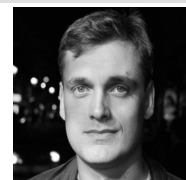
Description: Oldbaum have more than 10 years of experience in the wind industry and have become experts in everything to do with wind data. We can provide our clients with the right solution for them, depending on their requirements. We have worked on projects all over the world - from the UK, to Brazil, and India. Innovative aspects and main advantages / benefits: Oldbaum are experts in wind resource assessment, and we have provided wind assessments for banks on a number of projects. The company provides the LiDAR instrumentation-solution for the Offshore Wind Accelerator Wakes Measurement campaign, hosted and managed by E.ON Climate & Renewables on behalf of the Carbon Trust. Oldbaum coordinated the ground-breaking EC-funded NORSEWInD project: a dependable offshore wind atlas of the North, Irish and Baltic Seas. The 4-year €7.9 million Euro project was carried out by a consortium of 21 partners around Europe.

OPEN OCEAN

Organisation Name	
Country	France
City	Paris
Street	27 rue du Chemin Vert
Website	http://www.openocean.fr
Organisation Type	Company



Person	
Name	Jérôme CUNY
Job Position	Business Development Manager



Organisation Details

Based in Brest and Paris, **Open Ocean** is a software company specialized in Marine Data Intelligence for the marine renewable energy sector.

Open Ocean conceived and created **Metocean Analytics**, the first Software as a Service offer which produces metocean data analysis and reporting on-demand. **Metocean Analytics** provides an online access to a large catalogue of metocean data, essential analytics, displaying as well as reporting tools required for the management, the installation and the maintenance of every offshore projects.

We are proud to offer you the entire knowledge of a recognized consultancy firm through a online software offer.

Find more information as well on our website at: openocean.fr

Basée à Brest et Paris, **Open Ocean** développe depuis 2011 des solutions logicielles innovantes pour le secteur des Energies Marines.

Open Ocean a imaginé et conçu **Metocean Analytics**, la première offre en ligne fournissant à la demande l'analyse et la production de rapports sur les conditions météo-océaniques. **Metocean Analytics** donne accès via internet à un large catalogue de données météo-océaniques, aux outils d'analyse, de visualisation et de reporting indispensables à la planification, l'installation et à la maintenance de tout type de structure en mer.

Open Ocean est fière de vous offrir toute l'expertise d'un cabinet d'étude à travers ce logiciel en ligne.

Découvrez tous nos produits et services sur notre site internet : openocean.fr

Areas of Activity

Technology

- Offshore wind
- Floating foundation
- Wave Energy
- Tidal stream energy
- Other

Category

- R&D / Engineering
- Project development

Cooperation Profiles

Technology Offer: Metocean Analytics Software - collaboration with project and technology developers

Based on its ocean numerical simulation and Big Data mining expertise, Open Ocean is developing Metocean Analytics, an ocean data analytics software solution offered through the web. Metocean Analytics is the first online offer for

metocean study on-demand. We would be pleased to share our expertise on Meteorological and Oceanographic data analysis with all offshore project developers.

Main advantages / Avantages

Metocean Analytics allows users to manage properly costs and risks linked to offshore operations. Metocean Analytics reliability is a unique solution offering quality controlled ocean current, wave and wind data, combined with statistical analysis results at your points of interest, and a report editing tool. Every features included in the Metocean Analytics were conceived in collaboration with maritime projects actors and industrials to answer all your metocean analysis requirements.

Market application / Marché d'application

Offshore projects management ; Offshore projects installation, Offshore projects maintenance

Type of partner sought / Type de partenaires visés

We are interested in collaborating with project and technology developers to obtain feedback about their ocean data analysis usage habits. Furthermore, we would like to work with metocean data providers to improve our web data catalogue.

Know-how / Expertise: Meteorological and Oceanography Consultancy services

Our team is specialized in high resolution numerical modeling, statistical analysis and data mining to answer all the needs of the marine renewable energy industry. We are able to provides farm developers, operators as well as public agencies with the best service, qualified data and consulting advices to optimize marine renewable energy project development.

Main advantages / Avantages

Open Ocean can assist you during the planning, the development and the production phase of your project using state of the art oceanographic numerical models combined with operational modules developed in-house specifically for the marine energy industry. • Site data analysis and site selection • Resource and energy assessment • Environmental data for design loads calculations • Physical environment impact assessment (wave, current, sediments) • Research and Development for offshore energy projects

Market application / Marché d'application

Marine Renewable Energy, Offshore project, Project Management

Type of partner sought / Type de partenaires visés

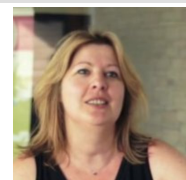
Project Manager, Project Developer, Marine Energy Operators

PILGRIM TECHNOLOGY

Organisation Name	
Country	France
City	Thouaré sur Loire
Street	3 bis rés. de la Chevalerie
Website	http://www.eagle-view.fr
Organisation Type	Company



Person	
Name	Anne-Marie HAUTE
Job Position	Président



Organisation Details

To provide inspections, we operates : UAVs (civil drones)

Offshore is our speciality.

We perform inspections using drones/UAVs, we ship measurement tools: full HD video live, thermography, noise measurement, LIDAR, DFT measurement...

For Exemple : to measure impacts on the blades, we can also measure the overall deformation of a structure or carry out a 3D view photogrammetry.

To ask and / or inspect underwater, we are the representative in Europe of the brand Seatrepid, leader of ROVs in the Gulf of Mexico (assistance diver detection funds, sampling, response to less than 3000m ...)

Nous réalisons des inspections à l'aide de drones nous pouvons embarquer de la vidéo avec retour Full HD en live, de la thermographie, de la mesure du bruit, du LIDAR, mesure d'épaisseur de peinture ...

Par exemple : pour mesurer les impacts sur les pales, nous pouvons également mesurer la déformation globale d'une structure ou réaliser une vue 3D en photogrammetrie.

Pour poser et/ou inspecter sous l'eau, nous sommes les représentant en Europe de la marque Seatrepid, leader du ROVs dans le golf du mexique (assistance à plongeur, detection des fonds, echantillonnage, intervention jusqu'à moins 3000m...)

Areas of Activity

Technology

- Offshore wind
- Floating foundation
- Tidal stream energy
- Naval
- Other

Category

- R&D / Engineering
- Manufacturer
- Logistics / Installation
- O&M
- Project development
- Service providers / Consultancy

Cooperation Profiles

Technology Offer: Inspection de pale par drone

Description: Nous réalisons des inspections de pale par drone, mesure d'impact, déformation de structure, photogrammetrie Aspects Innovants et avantages comparatifs: Plus sécurisé et plus rapide qu'un cordiste

Description: We carry out inspections blade by

drone, impact measurement, structural deformation, photogrammetryInnovative aspects and comparative advantages:More secure and faster than cordiste

Know-how / Expertise: Perform inspections using drones/UAVs - Inspection par drone

Description de l'offre : We perform inspections using drones/UAVs, we ship measurement tools: full HD video live, thermography, noise measurement, LIDAR, DFT measuerment...For Exemple : to measure impacts on the blades, we can also measure the overall deformation of a structure or carry out a 3D view photogrammetry.Nous réalisons des inspections à l'aide de drones nous pouvons embarquer de la vidéo avec retour Full HD en live, de la thermographie, de la mesure du bruit, du LIDAR, mesure d'épaisseur de peinture ...Par exemple : pour mesurer les impacts sur les pales, nous pouvons également mesurer la déformation globale d'une structure ou réaliser une vue 3D en photogrammetrie. Aspects Innovants et avantages comparatifs: Design Departement, we can adapt our products to your specific requirements. Bureau d'étude, nous pouvons adapter nos produits à vos demandes spécifiques. Cible : Exploitants, sociétés de maintenance de parc éoliens.

POLE EMC2

Organisation Name	
Country	France
City	Bouguenais
Street	Chemin du Chaffault
Website	www.pole-emc2.com
Organisation Type	Other



Person	
Name	Olivia CAHN
Job Position	European & International Project Manager



Organisation Details

EMC2 is a French competitiveness cluster created in 2005 in the framework of a national initiative for industry competitiveness, operating in the Pays de la Loire region on Advanced Manufacturing Technologies.

The association gathers all the actors of innovation around key markets and technologies to foster the emergence of collaborative projects of R&D. The aim is to reinforce the innovation territorial ecosystem by structuring 4 sectors - aeronautics, naval, ground transportation and energy - in a common and transversal approach: the advanced manufacturing technologies. The vision of the cluster is to promote business development through collaborative innovation, building an innovation path mixing skills, markets and technologies to make innovation R&D projects emerge. EMC2 activities are enhanced by the IRT Jules Verne (Research and Technological Center) created 3 years ago at the initiative of the cluster.

EMC2 leads a network of 306 members composed of SMEs, OEMs such as Airbus, STX Europe, DCNS, Solvay, Dassault... as well as research and technical organisations. At the end of 2014, the global budget of R&D reached 1.2 bn € for 178 projects launched, including 425M€ of public funds.

EMC2 international activities include international missions with Europe and specifically targeted countries (Canada, Japan, USA...), inter-clustering for sourcing and partnerships and the actual set up of international R&D projects.

Areas of Activity

Technology	Category
<ul style="list-style-type: none"> Energy Offshore wind Floating foundation OTEC / SWAC Wave Energy Tidal stream energy Naval Material Offshore works / Subsea survey 	<ul style="list-style-type: none"> R&D / Engineering Project development Service providers / Consultancy

Cooperation Profiles

Technology Offer: Building EU proposals (H2020) with the EMC2 network

Are you looking for French partners for French and European projects? EMC2 provides you with a single entry point to a breeding ground of Large Entreprises, SMEs and Research and Technical Organisations willing to collaborate for R&D projects.

QOS ENERGY

Organisation Name	
Country	France
City	LA CHAPELLE S/ERDRE
Street	16 rue de Bretagne
Website	www.qosenergy.com
Organisation Type	Company

Person	
Name	FRANCK LE BRETON
Job Position	CEO



Organisation Details

QOS ENERGY - Independent software vendor specialised in Energy IS QOS ENERGY develops and commercializes Qantum® SaaS solution dedicated to monitor and control technical installations of production, management and storage of energy.

Main advantages of Qantum® Monitoring solution: flexible, open, independent from hardware systems.

Market : O&M for Wind, PV, hydro, Biogas power plants portfolio

Interest: looking for partnerships:

1/ IPP (independent Power Producers)

2/ EPC

3/ distributors of IT solution

Areas of Activity

Technology	Category
<ul style="list-style-type: none"> Energy Offshore wind Wave Energy Tidal stream energy Naval Other Electric design / Grid connection 	<ul style="list-style-type: none"> O&M

Cooperation Profiles

Technology Offer: Qantum - innovative, flexible and open monitoring solution for multi-energy portolios O&M

monitoring software solution dedicated to IPPs and O&M with heterogeneous power plants portololios (multi-sites, multi-vendors, multi-energies). main features: - supervise installations - follow contractual commitments (SLA, KPI) - be alerted, diagnose and react accordingly - control and optimize maintenance actions (CMMS module) - reduce downtime - forecast productions - identify potential for improvement, optimize - control grid injection - customize reporting for investors or 3rd parties

Main advantages / Avantages

Flexible > multi-vendors data and protocol management, multi-energy (wind, marine, PV, biogas, hydro...), integration of 3rd party calculation models (weather, theoretical forecast,...), technical and economic approach, Open > integration of 3rd party calculation models, multi-energy, customizable user interface, interoperability with other IS through API. fully indepedent from hardware vendors and energy suppliers. scalability, reversibility + CMMS (mainte-

nance & ticketing system) integrated ours references: monitoring of more than 3000 plants with european IPPs (from 50kW to x 100MW plants). the largest european PV plant (300MWp) will be monitored through Qantum.

Market application / Marché d'application

Renewable energy power production (wind farms, PV plants, biogas, Hydro, marine power production, diesel generators, storage...) Management of energy in building and industry monitoring & control of other systems (water, industry process, etc.)

Type of partner sought / Type de partenaires visés

clients : IPPs and O&M interested by flexible multi-energy monitoring tools EPCs partners: companies or people involved in O&M able to sell the plateform on the market (Japan, SEA, Pacific area, India, Africa...)

STX France SA

Organisation Name

Country	France
City	Saint Nazaire
Street	Avenue Bourdelle
Website	www.stxeurope.com
Organisation Type	Company

Person

Name	Pierre SARRAMEA
Job Position	Purchasing Manager

Organisation Details

STX France is the major European shipyard, world leader in passenger ships, part of STX Europe group. STX France Solutions is its engineering capacity.

Mastering major complex industrial projects within tight schedule constraints, STX France offers its customers engineering and construction of production-optimized solutions.

DNV Certified ISO

With experts in steel structure, automation and electricity, piping and machinery, living quarters and HVAC, STX France deals with Complex systems engineering and integration with Working methods of a major industrial operator

STX France has already started new activities in the domain of Offshore Wind since 3 years : OHVS design, Wave Energy System design, Foundation design and Wind Offshore logistics studies, Jacket prototype fabrication, OHVS fabrication.

In this ramp-up, phase STX France is aiming at developing a dedicated Supply Chain.

References :

Offshore jacket proto ALSTOM -Le Carnet (Livraison 2013)

DNV certification for Jacket design - 2013

Offshore Electrical Substation Jacket+topside DONG ENERGY (Westermost Rough OWF -UK) -Liv 2014

Offshore Module SAIPEM/TOTAL for FPSO- Livraison 2014

Areas of Activity

Technology

- Energy
- Offshore wind
- Wave Energy
- Tidal stream energy
- Naval

Category

- R&D / Engineering
- Manufacturer
- Project development

Cooperation Profiles

Technology Request: Offshore Wind Supply Chain Development

With its development in offshore wind in Europe and France, STX France is looking for motivated industrial partners to set up an added-value supply chain related to : - heavy steel fabrications : web profiles, large diameter tubulars, conical and cylindrical heavy steel sections - 2ary steel : boat landing, J tubes, prefabricated platforms incl. gratings and railings, ...

TOCARDO TIDAL ENERGY

Organisation Name

Country	Netherlands
City	Den Oever
Street	Sluiskolkade 2
Website	www.tocardo.com
Organisation Type	Company



Person

Name	Paul MORRIS
Job Position	Managing Director



Organisation Details

Tocardo is the only company in the world commercially producing and selling tidal turbines.

Building on Dutch water engineering expertise, we manufacture in-stream and tidal turbines and supply project support to successfully deploy our devices.

Development of our own patented tidal technology began over 12 years ago and our turbines have been installed, producing electricity to the grid and gathering data for over 5 years.

Areas of Activity

Technology

- Tidal stream energy

Category

- R&D / Engineering
- Manufacturer
- Project development

Cooperation Profiles

Technology Offer: Turbine offer

Description: We are interested in providing and project managing arrays of small tidal and in-stream turbines for use in either existing or proposed tidal sites, and to co-exist with larger sub-sea tidal turbines. By doing so we have proven that we increase the yield of any given array by up to an exponential value of 60 percent greater than that expected or perceived. We have proven technology with data that has been collected over a period of 5 years, and turbines that have been providing energy to the Dutch Grid for over 4 years. We are currently the only company in the world that is manufacturing and selling our turbines on a commercial basis, and are looking for collaboration and cooperation with any party, particularly in France, who might have now or in the future, a requirement for tidal and in-stream turbines. Innovative aspects and main advantages / benefits: Exponential gain in the yield in MWh from any given or proposed tidal turbine array.

WavEC - Offshore Renewables

Organisation Name

Country	Portugal
City	Lisboa
Street	Rua Dom Jerónimo Osório, n.º11, 1º andar
Website	www.wavec.org/en
Organisation Type	Technical Centre



Person

Name	Yannick Debruyne
Job Position	Research Engineer



Organisation Details

WavEC Offshore Renewables is a private nonprofit association, created in 2003, aiming to contribute to the development of the offshore renewable energy sector. The key activities of the company include *consulting*, *applied research*, and *pro bono activities*. To ensure a high quality of our services, WavEC is composed of 4 core and specialized departments:

- Numerical modelling
- Economy and Industry
- Monitoring and Technology
- Marine Environment and Public Policies

WavEC Offshore Renewables est une association privée à but non-lucratif, créé en 2003, qui vise à contribuer au développement des énergies marines renouvelables. L'entreprise se concentre sur les activités de conseil, recherche appliquée, et pro bono. WavEC assure des prestations de haute qualité grâce à une structure organisée autour de 4 départements principaux:

- Modélisation numérique
- Économie et Industrie
- Surveillance et Technologie
- Environnement marin et réglementations

Areas of Activity

Technology

- Energy
- Offshore wind
- Floating foundation
- OTEC / SWAC
- Wave Energy
- Other
- Offshore works / Subsea survey
- Environment

Category

- R&D / Engineering
- Project development
- Other
- Service providers / Consultancy

Cooperation Profiles**Know-how / Expertise: Benefit from the experience of 10+ years of engineering services for the MRE sector / Bénéficiez de 10 ans d'expérience dans le secteur des EMR**

WaVEC seeks to create partnerships as a strategic factor to expand our activity and enhance our actions to support the offshore renewable energy industry. - Conceptual and performance studies - Techno-Economic Analysis - Market and supply chain analysis - Resource assessment and site selection - Development of Geographic Information Systems - Component development and testing - Performance monitoring - Underwater monitoring - Marine environment characterization - Strategy consulting - Offer of specialized training

Main advantages / Avantages

- Highly qualified staff (including 6 PhD's) - Large in-house expertise - Competitive offer - Independent service provider - International recognition - Operator of the Pico Plant OWC since 2004

Market application / Marché d'application

- Product & Technology development - R&D and Innovation - Promotion of products and services

Type of partner sought / Type de partenaires visés

- Device developers - Project developers - SMEs - Research centers - Utilities - NGOs