

Renewable Energy

Frazer-Nash is a leading provider of independent advice on wave power and tidal stream technologies. We provide insight into technological, project and enterprise risk for device developers, investors, the public sector and communities. Our services also support wind, biomass and hydrogen projects.

WHO WE WORK WITH

Device Developers – We have extensive experience of engineering for the marine environment, including the challenges of survivability, reliability and hydrodynamic response. Our work for device developers include independent assessment and direct design support.

Investors – We deploy unique methods to advise on strategic investment in new technology, where there is often little operational experience. Our methods encourage clear communication of the claims made on the technology and focus the diligence effort on the most important risks. We also offer a range of advisory services to companies looking to enter the renewables market.

Public Sector - Our services support effective grant aid through market analysis, identifying an investment pipeline and due diligence. We can quantify regional renewable opportunities in terms of resource, socio-economic benefits and challenges such as grid infrastructure.

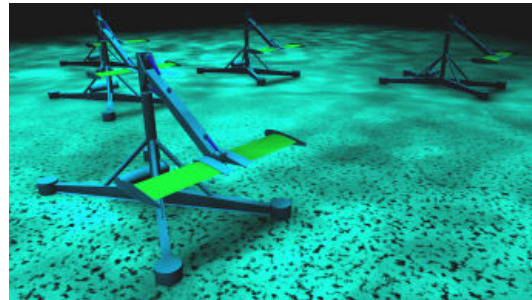
MARINE ENERGY SERVICES

Technology Risk Services - We provide technology services that are aligned with clients' goals, be that a successful prototype programme or performance of the production device. Our technology risk services include:

- ▶ Technology Development and Management
- ▶ Reliability and Supportability
- ▶ System Performance
- ▶ Structural and Electrical Design
- ▶ Fluid Structure Interaction

Project Risk Services - As marine energy technology matures, the importance of project risks associated with site developments is increasing. Our project risk services include:

- ▶ Resource Assessment
- ▶ Stakeholder Engagement
- ▶ Grid Studies
- ▶ Project Management
- ▶ Health and Safety Assurance
- ▶ Environmental Impact including Noise Analysis



Enterprise Risk Services - We combine our technical skills and market knowledge to provide high-level strategic advice. Our enterprise risk services include:

- ▶ Due Diligence
- ▶ Market and Policy Research
- ▶ Development of SME Business Processes

WIND

We provide a range of specialist services in support of on and offshore wind farm developments. Services to support operational farms, farms in construction and design and development include:

- ▶ Structural Investigation into Tower Collapse
- ▶ Performance Investigation
- ▶ Project Management
- ▶ Commissioning Support
- ▶ Noise (including sub-sea noise)
- ▶ Radar
- ▶ Blade Icing
- ▶ Electrical Design and Grid Connection
- ▶ Reliability

BIOMASS

Our extensive experience with conventional power plant and gas turbines provides the basis of our specialist services to the biomass sector, including:

- ▶ Combustion Modelling and Exhaust Gas Dispersion
- ▶ Thermal and Structural Analysis
- ▶ Materials Handling
- ▶ Supply Chain Sustainability Auditing
- ▶ DSEAR Compliance
- ▶ Due Diligence

HYDROGEN

Our services to the hydrogen sector include:

- ▶ Market and Policy Research
- ▶ Due Diligence
- ▶ Technology Development and Management

For more information please contact **The Renewables Team** on **0141 341 5400** or email renewables@fnc.co.uk

www.fnc.co.uk

Offices at: Bristol, Burton-on-Trent, Dorchester, Dorking, Glasgow, Plymouth and Warrington

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