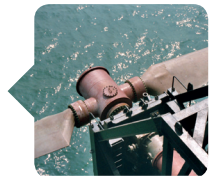
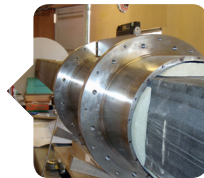




# GLOBAL EXPERTISE IN WAVE AND TIDAL ENERGY



Celebrating 30 years of renewable energy

## **IT POWER MARINE**

IT Power provides industry leading expertise to the marine energy sector. We have practical experience in all aspects of device development, from concept evaluation and techno-economic modelling through to detailed engineering design and project management.

Our unprecedented track record in research and development has, over the past thirty years, successfully launched marine technologies bringing on concepts to pre-commercial status.

Get in touch with IT Power to discuss your project.



## PROJECT DEVELOPMENT AND FEASIBILITY STUDIES

The development of any large scale infrastructure project can be a challenging process. The added complexities of the marine environment make developing wave, tidal and offshore wind projects particularly difficult. Even well conceived development programs and budgets can easily slip without a thorough understanding of the technology, public concerns and the regulatory environment.

IT Power understands the fundamentals of marine technologies and their interactions with the environment. We aim to strike a balance between the global benefits of marine renewables and their impact on the environment. We also recognise the importance of early stage work and engagement with stakeholders, which can greatly reduce development risk and cost, whilst increasing project returns.



## CASE STUDIES

### JOULE 2

European Commission  
Pioneering tidal stream energy research and development study mapping the resource throughout European waters.  
**1991 to 1996**

### SEAFLOW

European Commission & DTI  
The world's first pilot project for the exploitation of marine currents at a commercial scale  
**1998 to 2003**

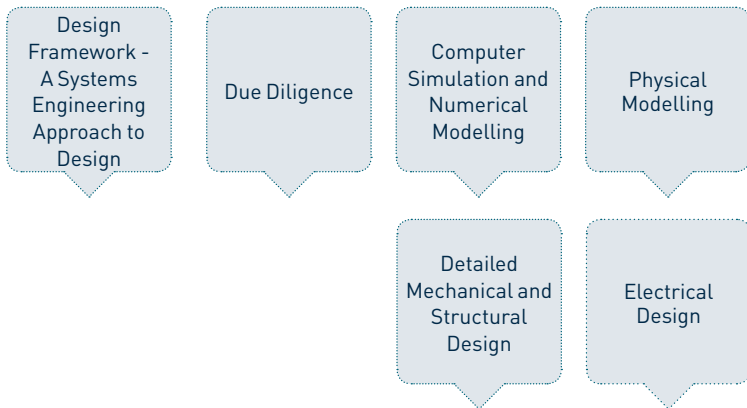
### SEVER EMBRYONIC TECHNOLOGIES SCHEME

UK Government  
Leading the Severn Tidal Fence Consortium in the investigation of a tidal fence for the Severn Estuary  
**2009 to 2010**

## ENGINEERING DESIGN AND INNOVATION

IT Power's approach to R&D has been to act as a technology incubator and innovator in marine renewables; providing a comprehensive range of services. IT Powers excellent track record in R&D is unprecedented and is built on core engineering services like numerical modelling and engineering design.

These capabilities have allowed us to be successful in taking very early 'proof of concept' fundamental research stage technologies through to pre-commercial demonstration where they have been successful in raising investment to continue their success.



## CASE STUDIES

### PULSE

#### Pulse Tidal Ltd

Development, test and demonstration of a large scale, high efficiency, shallow tidal flow energy converter.

**2009 to 2013**

### JIANTIAO TIDAL BARRAGE

#### Longyuan Power Company

Technical due diligence of a 21MW tidal barrage scheme, focussing on a review of equipment, construction methodology as well as power output, programme and costs.

**2010**

### OWEL WAVE ENERGY

#### Technology Strategy Board & OWEL Ltd

Design and demonstration of a pre-commercial 500kW OWEL wave energy converter

**2011 to 2013**

## OFFSHORE/SITE WORK

The offshore work for a marine energy project, including installation, operation, maintenance and decommissioning is a significant portion of the overall cost.

IT Power is here to help organise and manage the offshore work throughout the lifetime of your project, ensuring a successful and profitable project.

Operations & Maintenance and Health & Safety Procedures

Offshore Installation Management and Design Services

Device Commissioning and Performance Analysis

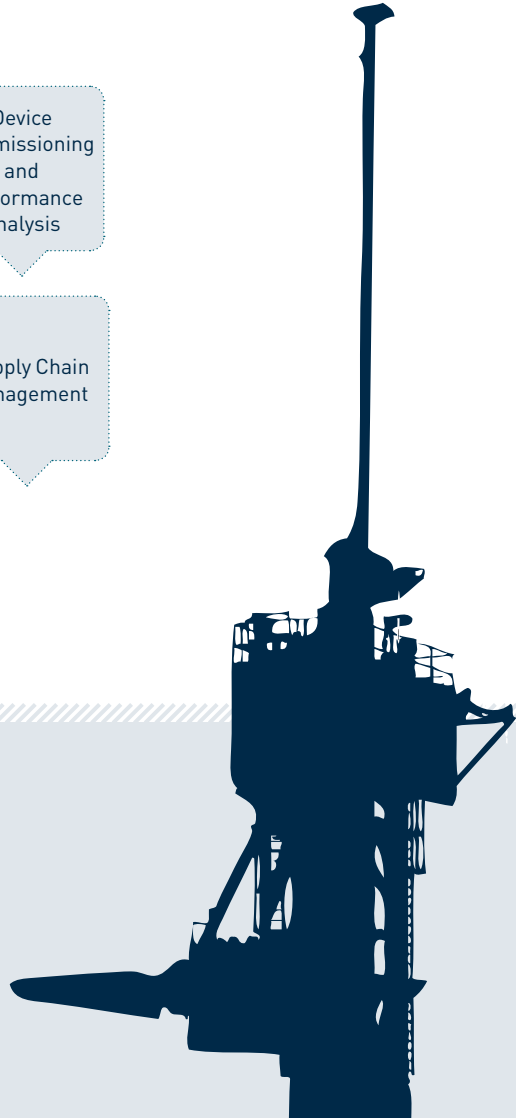
Supply Chain Management



## Marine Energy

TECHNOLOGIES DATABASE

visit [www.itpower.co.uk/marine](http://www.itpower.co.uk/marine) for details of over 250 wave and tidal stream developers and their technologies.





## Celebrating 30 years of renewable energy

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