



**EUROPEAN ENERGY
VENTURE FAIR 2006**

Scotrenewables Ltd

BARRY JOHNSTON
Founder & Managing Director

September 11-12 2006, Zurich, Switzerland



Scotrenewables (Marine Power) Ltd was established in 2002 to commercialise the SRTT tidal energy turbine.



New Office Facility Feb 06



2000



PhD – Marine Renewable Energy – The Idea!

2003



Enterprise Fellowship

2004



16th Scale Construction and Testing

2005



7th Scale Construction and Initial Testing

2005



Detailed Cost of Energy Analysis + further 7th scale testing

2006



National Winner (and former UK LiveWIRE winner)

2006



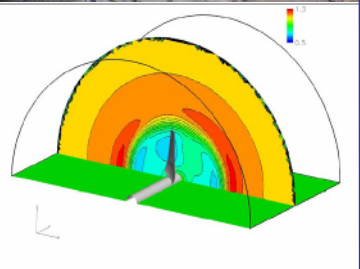
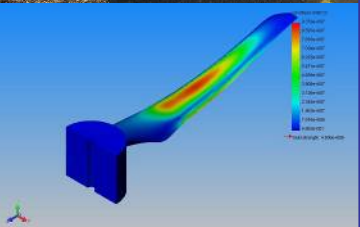
Energy Major TOTAL acquired 10% shareholding (1st equity release)

2006



Production, Design and Verification





The *SRTT* is an innovative rotor-based floating tidal power generator for use at sea or in rivers.

Scotrenewables believe that access and maintenance will be the single biggest issue in the effective utilisation of marine energy

Transport / Survivability Mode



Operation Mode



- Overall Design** – Designed primarily for ease of access and maintenance.
- Minimum onsite work** – Constructed, tested, and maintained at a shore base.
- Survivability** - Structurally efficient in extreme hydrodynamic forces.
- 100% Available Technology** – Components from wind, wave and offshore industry.
- Non site specific** – Scalability + ease of mobility = installed on a wide range of sites.
- Competitive** – Potentially cheaper electricity than offshore wind in high potential sites.

With the innovative design of the *SRTT* and its adaptability to various tidal current and hydro locations, the market potential within the UK and globally is **significant and is largely untapped**.



The UK has a significant domestic Tidal Stream Resource, representing around half of the European resource and around 10–15% of the *known* global resource.

There is around 18TWh/yr of UK Tidal Stream Resource that could be **economically** exploited*

In addition, potential run-of-the-river hydro market >500TWh.



Objective: to be lowest cost tidal energy system in the sector – achievable: simple design = **low capital cost** and ease of maintenance = **low operational cost**.

Market support mechanisms will be geared to support lowest cost devices – *SRTT* will have competitive edge if benchmark.

* Source



MARK HAMILTON (10%)
Director & Project Manager

BARRY JOHNSTON (80%)
Founder & Managing Director

PAUL ABBOTT (TOTAL 10%)
Director on behalf of TOTAL

Joined Scotrenewables in 2003

BEng (HONS) Mechanical Engineering

Extensive experience in wet renewables

Wholly committed to the successful commercialisation of the SRTT

Established Scotrenewables in 2002

BEng (HONS) Offshore Engineering

PhD Marine Renewable Energy (writing up!)

Seven high profile awards for work in renewable energy

Appointed Director in July 2006

UK Renewables Manager for TOTAL

Experience in business development in energy sectors

Personal interest and desire to make tidal energy a commercial reality

Scotrenewables have assembled a young and dynamic staff team who live and work literally on the doorstep of some of the largest renewable energy resources in the World.



(1)
Research & Development

Currently funded by Carbon Trust, DTI and TOTAL.

Working on detailed Cost of Energy and Full-scale Demonstrator Design.

(2)
Demonstrator Build & Testing

May 2007 – May 2009 Demonstrator Build & Testing.

Demonstrate power production, availability, survivability and ease of maintenance.

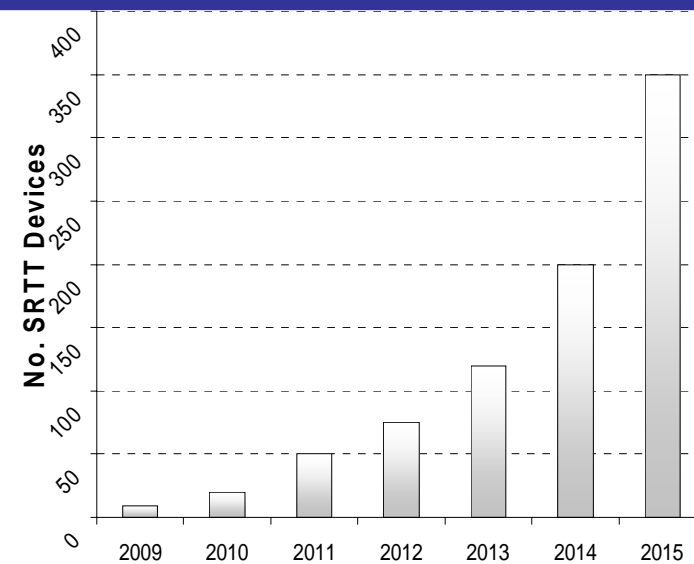
(3)
Commercial Sales

Target most favourable markets first.

Serial production early in 2009 – rapid expansion.

SRMP intend to be a manufacturer – costs depend upon geographical market.

1% UK resource = approx. 50 SR TT Units



As the company's first investor, TOTAL see themselves as a **project developer** using *SRTT* units.

They take with them **valuable experience** of bringing offshore energy projects to market.

This round of investment for the next phase will allow a full-scale *SRTT* tidal turbine demonstrator to be constructed along with a 12 month independent testing and verification programme at the European Marine Energy Centre (www.emec.org.uk).

Total project cost of £6m GBP (€9m EUR) - 40-50% from DTI Technology Programme (*2 previous successful DTI funding rounds and written feedback urging rapid progression to full-scale*).

Require £3.5m GBP (€5.2m EUR) equity funding - (ideally from 3 partners).



The timing is right to invest in the SRTT – the company's momentum is on the up!

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