



Technology Transfer from
the University of Oxford

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Overview

- > 1. Introduction to Isis Innovation
- > 2. Commercialisation projects from the University of Oxford
- > 3. Isis Enterprise (technology commercialisation support)
- > 4. Carbon Trust Incubator (working with SMEs across the UK)

1. Isis Innovation Ltd

- > A company 100% owned by the University of Oxford
- > Established in 1987
- > Isis *Technology Transfer* group helps researchers *who wish to commercialise the results of their research*

Research at the University of Oxford

- > 4,200 researchers
- > 6,700 doctoral students
- > Highest University Research Spend in UK
 - > £389 million (2007/2008)





Isis Innovation Ltd



Technology Transfer
IP, Patents, Licences, Spin-outs,
Material Sales, Seed Funds,
Isis Angels Network



Academic Consulting
Consulting Services from
University of Oxford Academics



Isis Enterprise
Technology Commercialisation and
Innovation Management Consulting



2. Commercialisation Projects (University of Oxford)

Some examples of current projects:

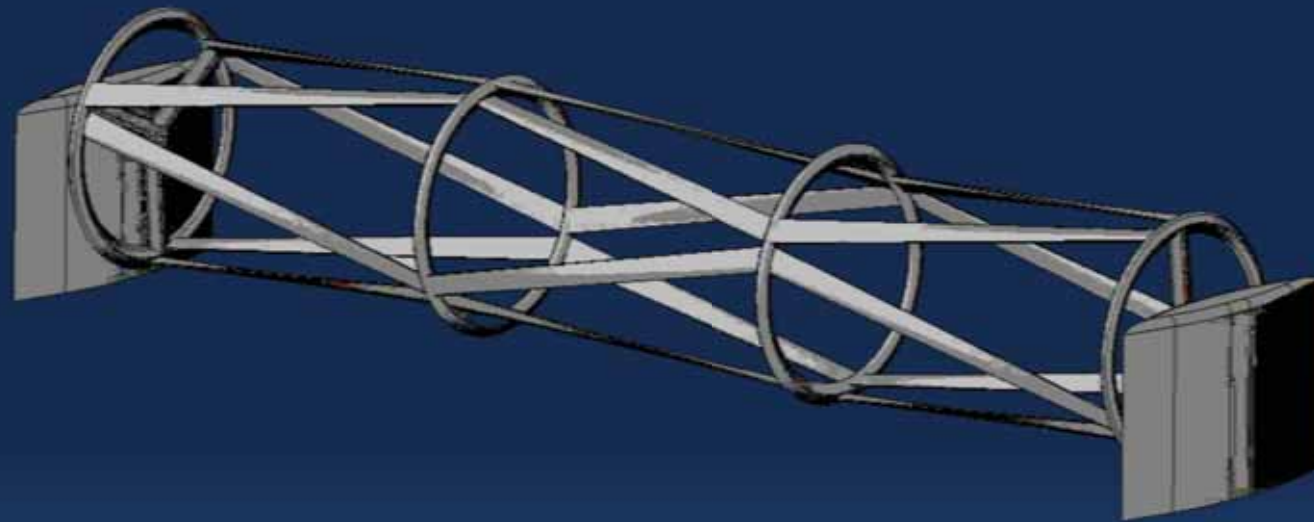
- > A. Tidal Power (new design of tidal turbine)
- > B. Wind Turbine (new type of gearbox)
- > C. Smart Meter (new spin-out company)

Other areas of current research include:

- > Hydrogen Storage
- > Biological Fuels Cells
- > Electrical Motors
- > Materials for Solar Cells
- > Catalysts for Biofuel Production and Waste Treatment
- > ...

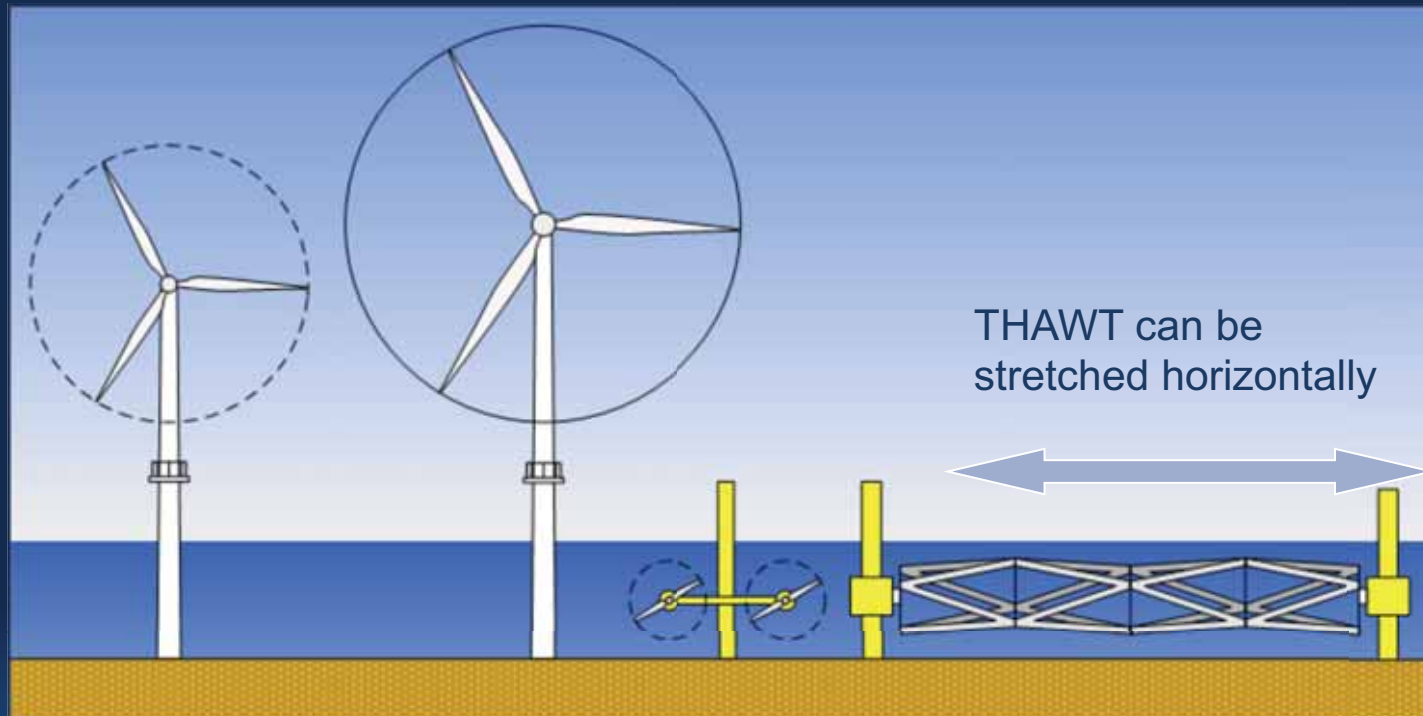
A. Tidal Power

- > A team of Oxford researchers have invented the Transverse Horizontal Axis Water Turbine (THAWT)
- > New company being formed to commercialise this technology

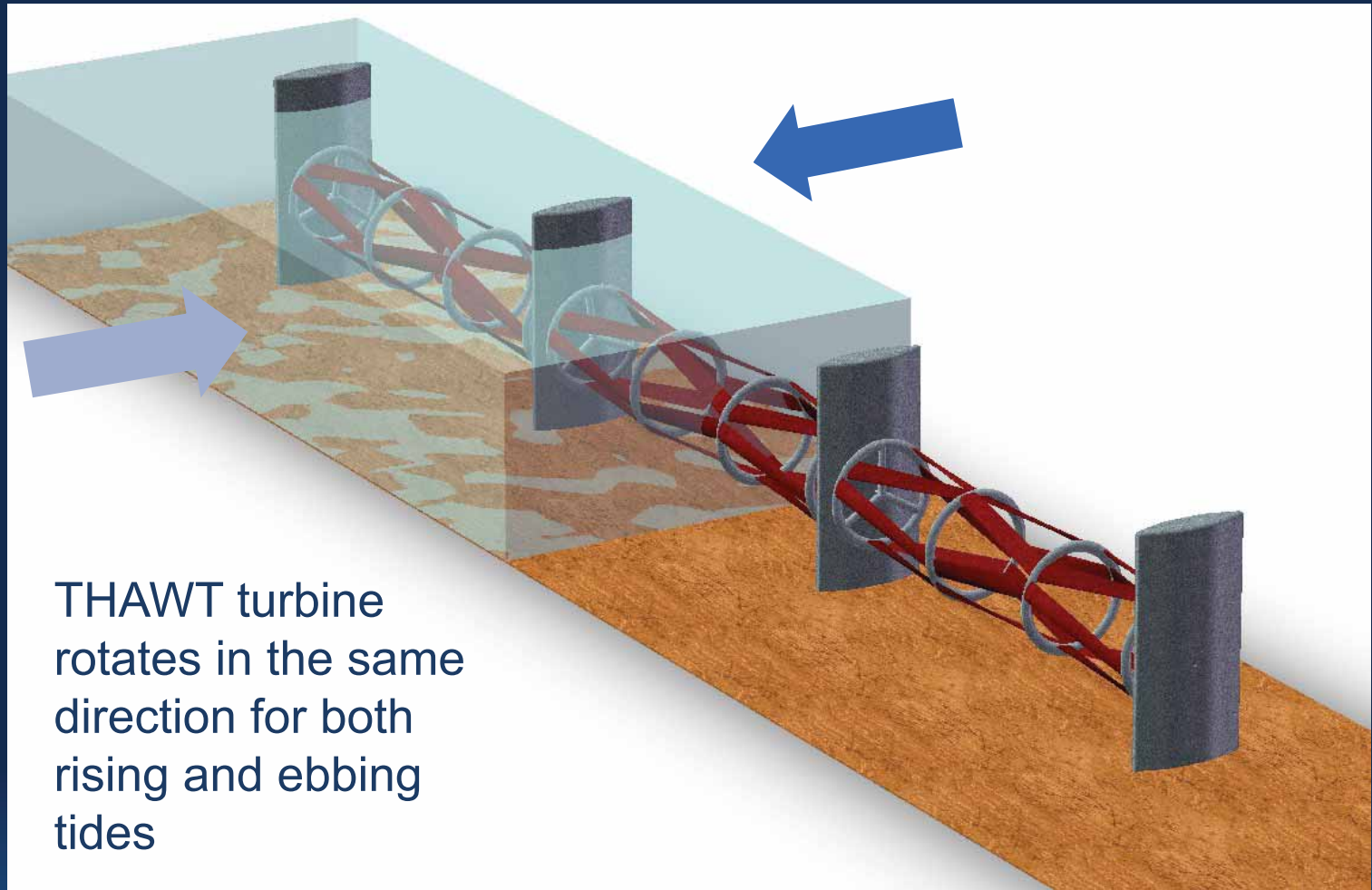


Horizontal Scalability

- > Wind turbines can be scaled by increasing the length of the blade, tidal generators require a different approach, as they are limited by the depth, but not horizontally



Rotates in a Single Direction



THAWT turbine rotates in the same direction for both rising and ebbing tides

Next Steps

- > Proof-of-concept designs have been demonstrated in the lab
- > Now looking for partners to work with to test larger, scaled-up devices
- > Suitable test sites need to be identified
- > Considering commercial options for bringing this concept to market

3. Isis Enterprise

- > Isis Enterprise offers consulting advice and hands-on support for technology commercialisation

- > Isis Enterprise clients and services:
 - > Governments:
policy and benchmarking studies (technology transfer etc)
 - > Universities and research institutes:
policy studies, technology audit, technology transfer office partnerships, training and secondment programmes, technology marketing
 - > Companies:
out-licensing or in-licensing support, university relationship management, open innovation partnerships, access to industry networks
 - > Professional services firms:
market validation studies, IP valuation
 - > Investors:
investor readiness appraisal

- > www.isis-enterprise.com

4. The Carbon Trust Incubator



Making business sense
of climate change

- > In December 2006, Isis became a Low Carbon Incubator in partnership with The Carbon Trust
- > Isis provides support to UK organisations to assist with the commercialisation of carbon saving technologies that have true commercial potential
- > Isis Enterprise works with:
 - > Individuals
 - > **Companies (generally SMEs)**
 - > Universities
 - > Research Institutes
- > Part of a network of support organisations working with innovative UK based SMEs





TECHNOLOGY TRANSFER
FROM THE UNIVERSITY OF OXFORD

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"...widely regarded as one of the best technology transfer offices in the country"

Lambert Review of Business University Collaboration

ISIS Innovation is a wholly-owned subsidiary of the [University of Oxford](#), founded to exploit know-how arising out of research at one of the World's premier research institutions



Technology Transfer
Consulting



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