





OUR PRODUCT

AN INNOVATIVE DEVICE ABLE TO EFFICIENTLY CAPTURE THE 6 DEGREES OF MOTION AND CONVERT CHAOTIC ENERGY INTO A USABLE SUSTAINABLE SOURCE OF ELECTRICAL POWER WHICH IS SUITABLE TO BE USED IN MULTIPLE APPLICATIONS.



WHATEVER INPUT TO TORSION TRANSFER

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WITT ENERGY

Contained within a sealed unit, a WITT uses two pendulums connected to a flywheel to generate electricity. Movement causes the pendulums to swing, and they are attached to a shaft that then turns a flywheel in one direction.

The flywheel is connected to a generator, which produces electricity. The unit harvests chaotic motion, turning it into usable power.

Where most energy harvesting devices are taking up-and-down or side-to-side motion, the WITT captures energy from all 6 degrees of chaotic motion.



REMOTE OFF-GRID APPLICATIONS

HARVESTS CHAOTIC ENERGY

POWER FROM MOTION (WIND, WAVES AND MORE)

6 DEGREES OF MOTION

ISOLATED FROM HARSH ENVIRONMENTS

MILESTONES & RECENT AWARDS

2007	2009	2013	2016	2017	2019	2020
INCORPORATION	FIRST PATENT	'LEAP TO ZERO'	ON CROWDCUBE	EVER FILED	TOW TANK	ACHIEVED
		OCEAN EXCHANGE	CROWDFUNDING	BEST 60 PATENTS	VALIDATION IN	TESTING & TRL 7
		WINNERS OF	BIGGEST CLEANTECH			SUCCESSFUL OCEAN







Accelerator

SOLAR IMPULSE

We have been awarded the Solar Impulse Efficient Solution Label as part of the 1,000 solutions that can protect the environment in a profitable way, selected by the Solar Impulse Foundation. Solar Impulse are selecting 1,000 existing Solutions that are both clean and profitable and have a positive impact on quality of life.

ENERGY CATALYST 8 AWARD

WITT Energy visited Cape Town and Johannesburg in 2020, they are interested in small WITT units to fit in a dragonfly, an easy to assemble wind energy harvesting system to help in poor areas and the townships. There is also potential in the marine sector to supply water power for desalination and topping up generators.

MARINE ENERGY ALLIANCE

WITT Energy has secured funding from the MEA consortium who have a strong team of academic and commercial companies ready to help to take the WITT to commercialisation, they are keen to explore marine renewables and will assist WITT Energy in testing and development of the technology.

Defence and Security

MINISTRY OF DEFENCE/DASA

We have recently been awarded a contract with MOD/DASA (confidential).



THE WITT TECHNOLOGY

SIZES





5W WITT

15W WITT



200W WITT

Unlike other energy harvesting technologies, the WITT system is a fully scalable technology designed for remote power applications.

Units can be built from very small (the smallest unit at present is 140mm), up to many metres in size to harvest kilowatts of power (subject to environment conditions).

POSSIBLE VARIATIONS



SUBSEA MARINE WITT

Vortex induced vibration from ocean currents is a phenomena that WITT can utilise in the sub-sea environment to produce power.



SURFACE MARINE WITT

WITT buoys capturing the energy from the movement of water (waves).



PORTABLE WITT

Capturing Kinetic energy from human motion from walking and jogging.



DRAGONFLY WITT

Harnesses the wind and works with low wind speeds.



THE WITT TECHNOLOGY

TECHNOLOGY READINESS LEVEL



COMPETITIVE ADVANTAGES

- 6 degrees of motion harvests all chaotic motion
- Scalable (cms to metres)
- Sealed to protective itself and the environment from internal workings
- Provides power in remote locations
- Can be linked in series for additional power needs
- Fit & forget solution
- Low maintenance periods
- Low cost of ownership
- Not dependant on light conditions
- Reduces the need for batteries weight & size reduction
- Technology and IP controlled for customer exploitation
- Customisable hardware & software to suit environment

BOARD OF DIRECTORS



Roger Evans CHAIRMAN

A total of 48 years in technical and leadership roles in Industry, the last three years as a personal coach and business advisor to Senior Schaeffler business leaders in the USA, Mexico and Canada. The increased productivity and adaptability achieved secured new investment into the business and transfer of product from Eastern Europe back to the UK.

Martin John Wickett CTO, CO-FOUNDER & WITT INVENTOR

A senior civil engineer with over 25 years of work in the industry working mostly on road building and bridges. Inventor of the WITT, Martin designed and built the WITT device transmission as 'proof of concept' followed by working demonstrators in various sizes.

Holds a Bachelor of Science (Hons) in Civil Engineering from the Polytechnic of Wales, Pontypridd.



Mairi Wickett **BUSINESS DEVELOPMENT DIRECTOR & CO-FOUNDER**

Career in Finance, Management and Marketing including track record of developing business divisions. Successes include increasing Cotswold Camping's turnover from £1 to £5 million and managing staff, security and the financial team for the Royal Air Force Benevolent Fund's Air show, attended by over 1 million people. Holds a BA (Hons) in Fine Art.





ACTING CEO John has a background in the engineering, manufacturing and software sectors. John is an Oxford graduate and PwC gualified chartered accountant and draws upon a wide range of experience including 10+ years as Chair leading PE backed companies, 10+ years as Non-Executive Director in publicly quoted and privately owned businesses and 15+ years Executive Director as CEO/MD and FD.

Bill Corr NON EXECUTIVE DIRECTOR

Innovation specialist at Scottish Enterprise (SE). Former Engineer Manager at Smith & McLaurin and Marley Rooftile. Bill has opened the doors for WITT Limited to First Step Awards of Glasgow University, and provided financial aid through SE to cover European patent protection. He holds Higher National Diplomas in Fluids & Thermodynamics and Electrical & Electronic Engineering.

The Precision Aquaculture Market which covers Smart Feeding Systems, Monitoring & Control Systems, and Underwater ROVS was valued at \$398 million in 2019 and will grow at a CAGR of 14% to reach \$764 million in 2024 (MarketsandMarkets).

There are multiple power needs (feeding, lighting & monitoring) and energy can only be supplied from shore via a cable, by using diesel generators or solar and mini wind turbine back ups.

However, diesel is becoming environmentally unpopular, solar panels are fouled and stolen, wind is not sufficiently robust and cabling is expensive. The need for a remote power source arises and WITT can be the solution. WITT is currently working with The Scottish Aquaculture Innovation Centre (SAIC) to gather data to establish a total number of aquaculture sites where the WITT would be needed.

The Oil and Gas industry requires power for navigation and positioning systems to provide data, as well as for wildlife and environmental monitoring. Currently, surface power generation sources are limited, as solar will not provide power in high latitudes and needs regular cleaning, wind turbine are prone to damage and batteries have a limited life and cannot be changed easily.

WITT can be fixed on underwater equipment especially in the oil and gas sector, using the WITT as a dampner, thereby changing the life of the very expensive equipment as it would otherwise shake and move due to Vortex Induced Vibrations (VIV).





PARTNERS



RS component

A Global omni-channel distributor and solutions partner to over 1 million industrial customers

RS Components are currently helping with the final prototype and will then be WITT's partner for general production and distribution. Alongside this, WITT Energy will be connecting with the DesignSpark engineering community to share the progress and evolution of WITT devices.



SOLIS Marine

Established Naval Architects

SOLIS Marine are helping WITT Energy with fluid dynamics particularly with Vortex Induced Vibration, wave mechanics, filtering raw data and other aspects requiring expertise in 'Orcaflex', 'Ansys', 'Matlab' et al.





OPERATIONS RESEARCH & DEVELOPMENT



An integral aspect of the WITT organisation is to be able to take real data and test the system in a controlled and repeatable manner.

Studies together with SOLIS Marine included ocean currents, tidal streams and river flows analysis (=real data).

The results were then converted into movements done by a robotic arm and shaker table which enabled to test the WITT device (=system testing).





POWER FROM MOTION

WITT Limited <u>www.witt-energy.com</u>

Mairi Wickett - Co-Founder <u>mairi@witt-energy.com</u> <u>+44 (0) 7456169669</u> Confidential