Welcome to Intelligent Energy

Author Date

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Powering the hydrogen future[®] with our outstanding fuel cells and service.

Powering the hydrogen future®

Hydrogen fuel cell manufacturer

Products from 800W to 300kW

Automotive, aerospace, telecoms, marine, rail, materials handling, stationary and portable power



23 years' experienceOver 150 employeesOver 600 patents12 modular products

Based in the UK US, Japan, South Korea and China.

Credited with ISO 9001:2015, ISO 14001:2015, ISO 45001:2018

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Powering the hydrogen future $\ensuremath{^{(\! 8)}}$ with our outstanding fuel cells and service.

What is a fuel cell?

Fuel cells **generate electricity** through an environmentally friendly **electrochemical reaction**.

A **zero-emissions** solution.

Produces continuous power when hydrogen and air are supplied.

No combustion is involved.



Zero-emission power from 800W to 1MW





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Powering the hydrogen future $\ensuremath{^{(\! 8)}}$ with our outstanding fuel cells and service.

Our partners and customers



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IE-SOAR: 800W – 24kW for drone and VTOL applications

 \checkmark 3 to 5 times the flight time over batteries

✓ 2-3 minute refuelling

- ✓ Combine systems in parallel for 800W to 24kW systems
- ✓ Over 1000 hours life
- \checkmark Rotary wing, fixed wing and VTOL applications
- ✓ Unlock BVLOS operations





Replace your battery and unlock long endurance flight



Pipeline inspection with Shell Broadcasting the Sail Grand Prix Military Surveillance



IE-POWER:

1kW – 32kW for standby power, telecoms and construction

- ✓ Small, light, power dense hydrogen fuel cells
- \checkmark Modular, scalable and easy to integrate
- ✓ Unique patented airflow management
- \checkmark Quiet operation
- ✓ Wide environmental envelope
- ✓ Robust against high shock and vibration incidence





IE-POWER 4

IE-POWER 1



Zero emission hydrogen fuel cell solutions to meet your net zero targets



Fuel cell electrolyser demonstrator site for EGAT in Thailand Stationary power for welfare cabins on HS2 sites Back up power systems for telecoms sites with Netis Power in off-grid locations with Powidian



IE-LIFT: 1kW - 60kW for material handling equipment

- ✓ Complete battery replacement 24V / 36V / 48V
- ✓ Simple retrofit using existing FLT connections
- ✓ Rapid refuelling improves fleet availability
- \checkmark Easily scalable with site / fleet expansion
- \checkmark Improved TCO for intensive operations







Rapid refuelling, improved availability, lower TCO



Fuel cell powered Automated Guided Vehicles at BMW Plant World's first hydrogenelectric powered access platforms with Niftylift



IE-DRIVE: 100kW - 300kW for automotive applications

 \checkmark High power density

✓ Compact and easy to integrate

✓ Patented cooling technology

\checkmark Scalable and modular

✓ Long life span

✓ Range and re-fuelling experience similar to ICE







High power, lightweight, modular fuel cells for automotive and stationary use



Fuel cell powered passenger vehicles with Changan UK 44 tonne HGV developed with MIRA and Viritech

Fuel cell powered buses with TYCE, Taiwan

600kW microgrid at Hickam Air Force Base in Honolulu, Hawaii



IE-FLIGHT: 100kW - 1MW for aerospace applications

- \checkmark Offer zero-emission energy solutions
- \checkmark High power density
- \checkmark Compact and easy to integrate
- ✓ Unique patented airflow management
- \checkmark Scalable and modular
- ✓ Long life span









IE-FLIGHT: applications

Committed to achieving zero-emission flight for aviation



Management team





David Woolhouse Chief Executive Officer



Chris Dudfield Chief Technology Officer



Julia Waite Finance Director



Martin Schaefer Operations Director



Lauren Gurney Human Resources Director



Ashley Kells Programme Director



Greg Harris Chief Commercial Officer

Charitable Trust

The Charitable Trust, launched in 2019, donates £100,000 each year to local community groups and organisations in the Charnwood area.

Established to support local causes in need of financial assistance which, support and aid, amongst others; community groups, young people, sport and lifelong learning.

Ownership

The company is part of the Meditor group, a global investment business with interests across a range of industries from energy to pharmaceuticals.



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