Welcome to Intelligent Energy

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' experience

Over 150 employees

Over 600 patents

12 modular products

Based in the UK

US, Japan, South Korea and China.

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

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.

Fuel cell stack | Hydrogen | Air | Electricity | Pure water

Zero-emission power from 800W to 1MW

IE-SOAR	IE-POWER	IE-LIFT	IE-DRIVE	IE-FLIGHT	IE-GRID
800W – 24kW	**1kW – 32kW**	**1kW – 60kW**	**100kW – 300kW**	**100kW – multi-MW**	**200kW – 1MW**
Lightweight fuel cell modules for drones and VTOL applications	Clean power for construction, standby power and telecoms	Battery box replacement for material handling equipment	Fuel cells for buses, trucks, cars, rail and marine	Zero-emission flight for eVTOL, small aircraft and large aircraft	Fuel cell distributed power solutions

IE-SOAR™

800W – 24kW

IE-POWER™

1kW – 32kW

IE-LIFT™

1kW – 60kW

IE-DRIVE™

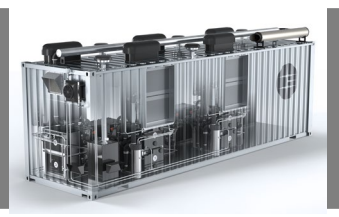
100kW – 300kW

IE-FLIGHT™

100kW – multi-MW

IE-GRID™

200kW – 1MW



Our history

2001
Intelligent Energy opened operations

2005
First fuel cell motorbike

2008
First manned fuel cell aircraft with Boeing

2010
First PEM fuel cell taxi

2011
First fully road approved fuel cell scooter

2012
Fuel cell taxis at London Olympics

2015
100kW high power system

2016
Fuel cell power for UAVs

2017
Company reset standard products

2017
Fuel cell scooter Met Police fleet trial

2018
4kW module launched

2019
UAV world flight time record achieved with customer

2019
Fuel cell welfare cabin for the construction industry

2019
2.4kW UAV module launched

2019
Automotive partnership with Changan

2021
Aerospace partnership with GKN

2021
1kW compact module launched

2022
172kW achieved from single EC stack

2022
BMW introduces fuel cells to AGV fleet

2022
Shell use fuel cells for pipeline inspection

2023
World first hydrogen powered MEWP for construction

2023
First standard 100kW HD fuel cell dispatched

2023
Fuel cell for passenger vehicles launched

2024
Fuel cell powered SUV with Changan

2024
New testing site announced for high power products

2024
Aero product launched

2024
200kW heavy goods vehicle unveiled

2024
Development of fuel cells for eVTOL

2025
Launch of ATI HEIGHTS programme for aerospace

Our partners and customers

IE-SOAR:

800W – 24kW for drone and VTOL applications

- ✓ 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
- ✓ Rotary wing, fixed wing and VTOL applications
- ✓ Unlock BVLOS operations


IE-SOAR 800


IE-SOAR 1.2

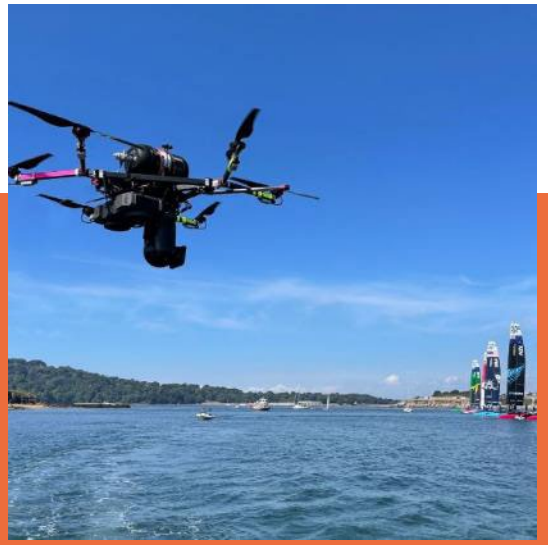

IE-SOAR 2.4

Case studies

Replace your battery and unlock long endurance flight

Data capture and monitoring

Pipeline inspection with Shell



Broadcasting the Sail Grand Prix

Long range reconnaissance

IE-POWER:

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

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

IE-POWER 1

IE-POWER 4

Case studies

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
- ✓ Easily scalable with site / fleet expansion
- ✓ Improved TCO for intensive operations

IE-LIFT 1

IE-LIFT 2 & 4

Case studies

Rapid refuelling, improved availability, lower TCO

Fuel cell powered Automated Guided Vehicles at BMW Plant

World's first hydrogen-electric powered access platforms with Niftylift

IE-DRIVE:

100kW – 300kW for automotive applications

- ✓ High power density
- ✓ Compact and easy to integrate
- ✓ Patented cooling technology
- ✓ Scalable and modular
- ✓ Long life span
- ✓ Range and re-fuelling experience similar to ICE

IE-DRIVE 100

IE-DRIVE HD100

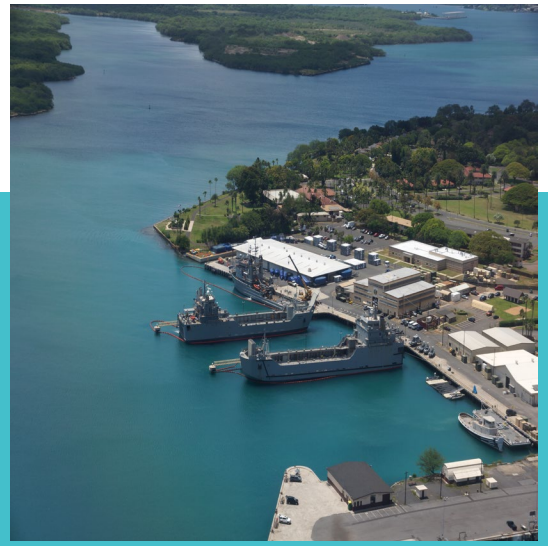
Case studies

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 – multi-MW for aerospace applications

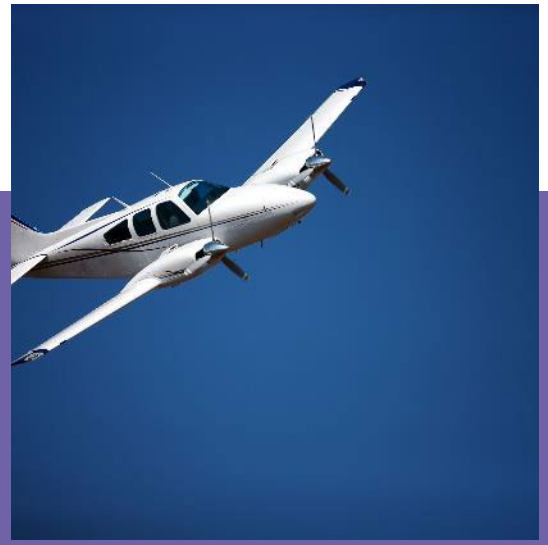
- ✓ Offer zero-emission energy solutions
- ✓ High power density
- ✓ Compact and easy to integrate
- ✓ Unique patented airflow management
- ✓ Scalable and modular
- ✓ Long life span

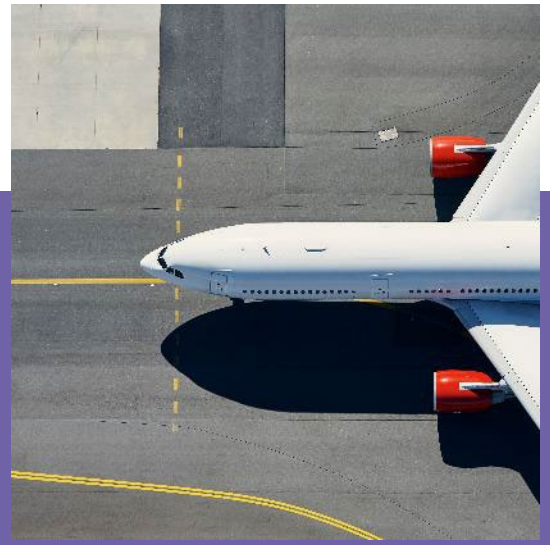
IE-FLIGHT stack module

IE-FLIGHT F300

IE-FLIGHT: applications

Committed to achieving zero-emission flight for aviation





Management team

David Woolhouse
Chief Executive Officer

Julia Waite
Finance Director

Lauren Gurney
Human Resources Director

Greg Harris
Chief Commercial Officer

Chris Dudfield
Chief Technology Officer

Martin Schaefer
Operations Director

Ashley Kells
Programme Director

Facilities

Facility Capability

- 1.3MW fuel cell total testing capability
- Produced power recirculated into energy park infrastructure
- Development and durability of FLIGHT and DRIVE products

Supporting Infrastructure

- Fuel cell workshop and offices
- 450kg hydrogen generation per day
- Green hydrogen generated from local renewables
- Situated at Chelveston Renewable Energy Park




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.

Meditor
Capital Management Limited

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