

**P**  **OWER**  
**IN CONTROL**



*-power in control*

**UK**

Established in Denmark in 1933, today the DEIF Group is a global supplier of green, safe and reliable control solutions for decentralised power production, marine/offshore and wind turbines.

20% of DEIF's more than 500 highly skilled employees work in R&D in our pursuit of excellence, consistently mapping new ways in power control technology to reduce fuel consumption and maintenance intervals, while cutting emissions.

A knowledge-based company with a developed environmental strategy, DEIF remains dedicated to customer satisfaction and long-term business relationships.

Our primary aim is to always secure a competitive edge for our partners, developing customised solutions, providing reliable delivery performance and market-leading support and service.

## **Green, Safe and Reliable**



## **A Global Reach: Sales Offices, Competence Centres and Training Facilities**



The DEIF Group has sales offices, competence centres and training facilities in 10 key markets in Europe, Asia and the Americas, and distributors in an additional 35 countries and territories.

The Group's broad infrastructure reflects our mission and continued drive to extend our reach in partnerships with trusted distributors, system integrators and a service partner network, making us a global group with strong local understanding and capability.

DEIF's regional and local anchors guarantee a 'glocal' view as well as rapid response times.

No matter where you are, our knowledge network firstly offers top-of-the-line commissioning, and secondly immediate and comprehensive field service support with maintenance, repairs, replacements or upgrades.



DEIF Wind Power Technology's integrated control systems and strategies increase power output and capacity factors, while complying with grid operators' requirements.

Our Wind Farm Power Management solutions optimise and manage dynamic energy exports to the grid, increasing wind farm profitability.

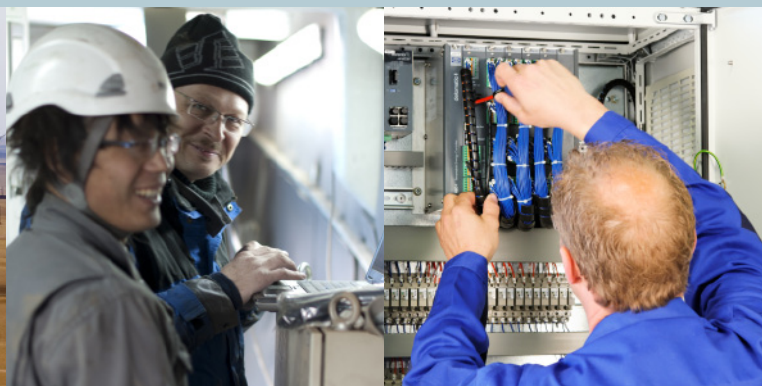
Bringing these competitive advantages to our partners, DEIF engineers solutions for wind turbines and wind farms across China and India in successful collaborations with leading wind turbine manufacturers.

To facilitate our investment and stay close to our business partners in Asia, DEIF Wind Power has offices in Shanghai, Beijing and Mumbai.

## **DEIF Wind Power Technology**



## Winds of Change: Intelligent Wind Farm Power Management



DEIF Wind Power Technology designs and delivers complete AC pitch systems for state-of-the-art wind turbines that include frontline technology ultra capacitors.

To meet DEIF's high standards in control solutions, we also supply sturdy battery chargers, power supplies, pitch motor drives, ultra capacitor modules, and quality controllers.

Benefitting from DEIF Power & Marine's time-honoured research and specialised expertise, DEIF WPT solutions have come to stand out as characteristically robust and of a quality unprecedented in the wind turbine industry, particularly suited for offshore wind farms.



*DEIF's AWC 500 Advanced Wind Turbine Controller is the strongest, most rugged and robust controller solution in the field, built for longevity and – uniquely in the industry – delivered with a five year guarantee.*

Intelligent power management strategies, fuel optimisation and emission reduction are three of the main competences that have made DEIF the world's biggest supplier of control systems for rental gensets, one of our main business areas.

DEIF standards are applied widely not just across rental and IPP markets but also in gas and hydro power generation in Europe, Asia and the Americas.

Drawing on resources and competences across the DEIF Group, highly-skilled engineers and developers create cost-effective and CO<sub>2</sub>-friendly turnkey solutions for airports and hospitals, where power supply is vital, and plant management solutions for development areas or emergency projects in natural disaster zones.

From conception to commissioning, DEIF Power & Control Technology provides 24/7 global support as part of a process that lets our partners take full and confident ownership of their projects.

## **DEIF Power & Control Technology**



## Diesel, Gas, Hydro: A DEIF Solution Is a Greener Choice



DEIF's market-leading range of innovative solutions and quality products in power control technology stretch from basic controllers and protection modules to complex controller and plant management systems as well as customer-designed PLC solutions.

The product catalogue also includes first class HMIs, switchboard equipment, power meters, battery chargers, transformers and additional switchboard equipment.

A DEIF Power & Control Technology solution is a greener choice because it means optimised operation: life extensions and fuel-optimising technologies make our customers' assets more valuable and operationally more efficient.



*Suitable for an extensive range of applications, DEIF's Automatic Genset Controller AGC-4's standard sequences include back-up power, start/stop, synchronisation, and fuel-optimising load sharing strategies, making it the most comprehensive and flexible power management and protection unit on the market today.*

With fuel prices continuing to climb and global environmental restrictions tightening, saving fuel and lowering emission rates are paramount issues to all businesses in the marine and offshore industry today.

No one is more aware of these challenges or has greater experience than DEIF Marine & Offshore Technology in identifying new ways to increase performance and efficiency, retrofitting older ships and designing projected setups with our acclaimed power management systems and quality switchboard equipment.

Knowing that downtime must be avoided at all cost, DEIF Marine & Offshore also guarantees the fastest delivery times on the market. From taking an order, our average delivery time is less than three days.

Even at this pace, DEIF performs an Automatic Test Sequence on all products prior to shipping and data is kept on record.

## **DEIF Marine & Offshore Technology**



## Built To Last: Retrofitting and Designing New Setups



DEIF Marine & Offshore's extensive product portfolio is one of the most comprehensive on the global marine market, ranging from quality analogue instrumentation and cost-effective single- and multi-function controller platforms to innovative, engineered solutions for the offshore oil and gas industry's ships and rigs.

DEIF's control concepts eliminate the need for external controllers and are user-friendly alternatives to standard controllers.

Expert support engineers offering standard support, consultant application engineers checking specifications, drawings and I/O lists, and project managers ready to assume responsibility and deliver customised turn-key power management solutions all contribute in DEIF Marine & Offshore maintaining its dominant market position.



*DEIF's Delomatic 4 Marine is a multi-function PMS control solution for applications that require large numbers of inputs with extra logic or increased flexibility for systems with large numbers of tie breakers. DM-4 Marine can also be adapted for emergency generator control.*

*In spite of its complexity and comprehensive functionality, DM-4 Marine has been designed for fast and easy installation, and DEIF offers market-leading support before, during and after commissioning and factory acceptance tests (FAT).*

A frontrunner in marine bridge instrumentation with a dominant global market share, DEIF has developed a number of innovative products at our research centre and manufacturing site in Skive, Denmark.

Safety and steady performance are key criteria that apply to all DEIF Marine Bridge products and guide our ambitious quality test programmes, research, and development goals.

To that end, all DEIF marine products are type-tested and tried in the harshest possible conditions to ensure outstanding levels of accuracy, robustness, reliability, water-proof housing, etc.

Knowing that this, in turn, speeds up our clients' approvals, DEIF collaborates closely with classification societies in securing and maintaining our record-setting number of international class type approvals.

## **DEIF Marine Bridge Instrumentation**



## Accurate, Robust and Reliable: The Market's Preferred Supplier



DEIF Marine Bridge Instrumentation's product range is a comprehensive series of world-class illuminated indicators, anemometers and rudder angle transmitters.

These include high-accuracy illuminated indicators based on patented microprocessor-controlled X-coil technology.

Increasingly, vessels shift from using analogue indicators to CANbus-based instrumentation.

DEIF's complete range is now available with this compatibility also, just as we design and develop complete customised instrumentation system solutions.



*As the shipbuilding industry's preferred supplier of bridge instrumentation, we tailor-make instruments according to the customer's preferences.*

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For a complete and updated list of DEIF subsidiaries and global distributors, please visit [www.deif.com](http://www.deif.com)



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