



Wind Sector Services



Houghton International
Electro mechanical innovation



Houghton International works with wind turbine operators, OEMs and maintenance providers to increase power generation, reduce downtime and extend equipment lifetime.

We offer a range of wind turbine diagnostic, repair and life extension services, ensuring electro mechanical assets such as generators and motors remain efficient and reliable. Independent of OEMs, but a service provider to many, we work flexibly with customers to solve problems and improve performance in a safe and cost-effective way.

Contact us on **+44 (0)191 234 3000** to find out more or visit **www.houghton-international.com**



Services Include:

- Generator repair and overhaul
- Generator rewinding, upgrade and life extension
- Main shaft/hub repair and overhaul
- Rotor pole shoe replacement
- Pitch, yaw, cooling fan and heater motor and hydraulic pump motor repair
- Full range of testing and diagnostics, including winding analysis, vibration analysis, thermal imaging and laser alignment
- Planned maintenance and emergency repairs
- Asset service exchange
- Reverse engineering, troubleshooting and performance improvement

Our services cover both direct drive and gearbox-driven wind turbines from all OEMs. As more turbines come to the end of manufacturer warranty periods and owners and operators seek an alternative to OEM support and maintenance, Houghton International provides specialist aftermarket support to maintain key components and maximise turbine uptime and output.







Project Management

Houghton International offers in-house project management support, giving you the peace of mind of one principal contractor throughout the entire process, from removal of the generator and other key assets from the turbine, transport, repair and maintenance works, and reassembly.

Wind Turbine Generator Services

We provide a range of wind turbine generator diagnostic, monitoring, repair and life extension services, ensuring generators remain efficient and reliable.

Generators can be rewound to improve performance and extend the life of the asset in line with the lifespan of the turbine. Combined with regular maintenance, this is a cost-effective method for extending the life of your wind turbine.

Our services cover all wind generators, onshore and offshore, and range from standard maintenance and overhauls to life extension and performance upgrades. Our reverse engineering expertise allows us to carry out repairs without the need for manufacturer specifications, instructions or manuals. With 40 tonne craneage and 13m working height we are well equipped to handle even large offshore and direct drive generators.

Independent of OEMs, but a service provider to many, we work flexibly with customers to solve problems and improve performance in a safe, sustainable and cost-effective way. We will always aim to provide the most appropriate solution based on customer needs and the asset's operating conditions.

Facilities

Well-equipped to service the needs of the wind market, our IECEx and Achilles category B2 accredited workshop has the latest facilities to accommodate large wind generators including a 40-tonne crane, in-house coil manufacturing facilities, one of the largest burn off stoves in the UK, and dynamic testing capabilities. We can provide static testing to guarantee performance after the work has been undertaken and prior to it being refitted to the wind turbine.

In addition to sourcing OEM approved parts and spares we also have 3D design reverse engineering capabilities to address obsolescence, reduce lead times and improve performance.

We can also store completed generators on site as part of service exchange contract, undertaking periodic electrical and mechanical checks to ensure equipment is available and ready to use when needed.

Sustainability

Our services help to keep wind turbines running efficiently, up to and beyond their planned life expectancy, to ensure maximum financial and environmental ROI. By identifying opportunities to improve performance and extend the life of assets, we improve efficiency, increase power generation potential and contribute to the circular economy. During every repair or rewind, materials are reused or recycled wherever possible, ensuring minimal waste is produced throughout the process.

A culture of continuous improvement forms a key part of our quality, health & safety and environmental systems and processes. Houghton International's environmental management system is accredited to BSI EN ISO 14001:2015, providing assurance that we are actively working to monitor our environmental impact, improve energy efficiency and reduce our carbon footprint.

Contact us on **+44 (0)191 234 3000** to find out more
or visit **www.houghton-international.com**







Houghton International

Ronnie Mitten Works,
Shields Road,
Newcastle upon Tyne,
NE6 2YL, UK

T: +44 (0)191 234 3000

E: info@houghton-international.com

W: www.houghton-international.com

