



A GL company



Garrad Hassan



Renewable Energy Experts
worldwide



Five leading brands

Making renewable energy happen

Welcome to the world's largest provider of technical advice and engineering consultancy services to the renewable energy market.

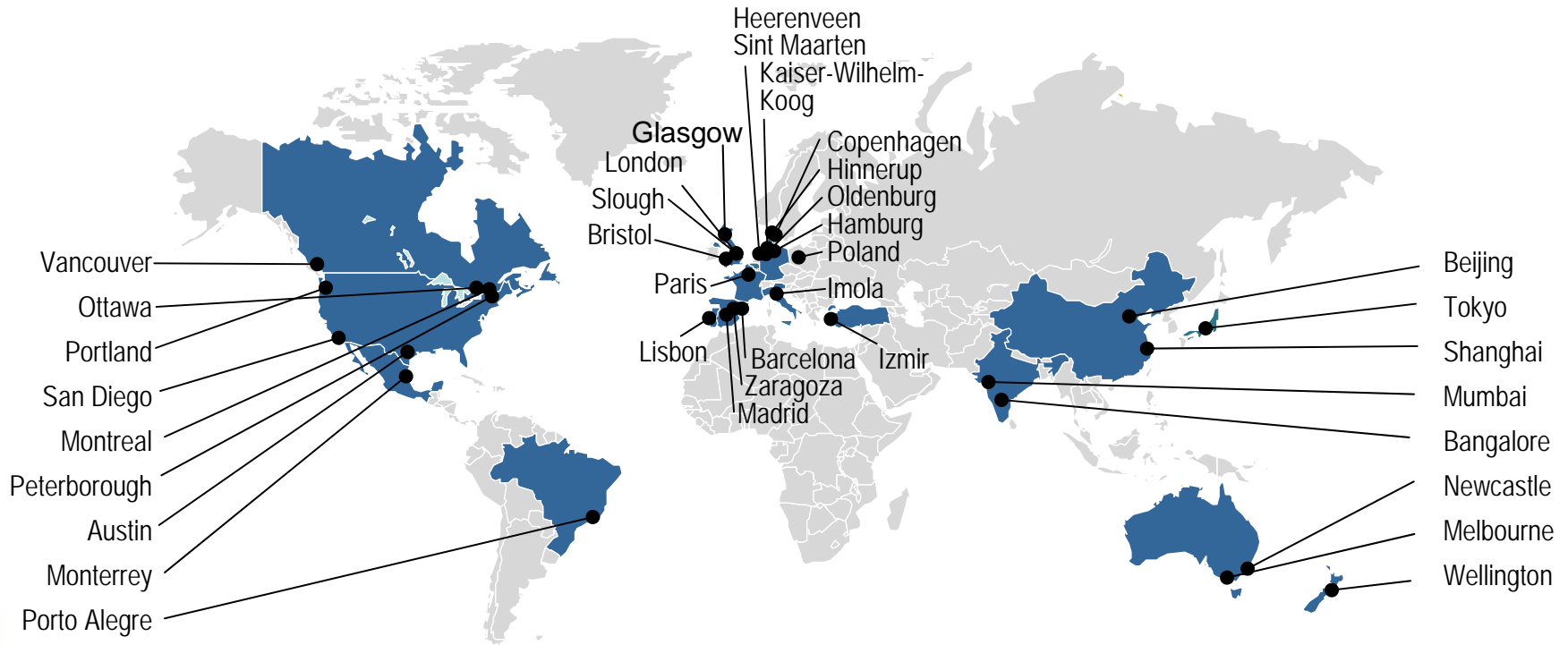


Under the Germanischer Lloyd Group, the companies of GL, GL, Garrad Hassan, Noble Denton, WINDTEST and Helimax provide a global service offering across the entire project lifecycle lifecycle that is unrivalled in breadth, depth and technical expertise.



Our geographic reach

- We believe that a local presence is vital in delivering a world class service
- Local understanding informs global perspective
- We have 650 renewables staff, in 35 locations, across 18 countries





Our combined offering is unrivalled unrivalled



- Certification
- Technical and engineering consultancy
- Project management
- Measurements
- Software products
- Training





Garrad Hassan Wind



Wind Energy Experts
worldwide



Wind Energy Experts

- ONSHORE
- OFFSHORE

Products and services for all stakeholders at all stages

- Investors/Banks
- Developers/Owners/Operators
- Manufacturers
- Contractors
- Government's/NGO's





Software products

- **GH WindFarmer**
Wind farm design software for onshore and offshore wind farms
- **GH Bladed**
The industry standard solution for conducting performance and loading calculations to inform the design and certification of onshore and offshore wind turbines
- **GH SCADA**
A web-based data acquisition, control and monitoring solution for onshore and offshore wind farms





Services

A GL company



- Banks Engineer
- Owners Engineer
- Strategic & Policy Studies

- Due diligence
- Energy Assessment
- Forecasting
- Mechanical design
- Control systems
- Electrical engineering
- Civil engineering
- Technology & special projects
- Safety Services





Garrad Hassan Marine Marine



Marine Energy Experts
worldwide



Marine Energy Experts

- TIDAL
- WAVE

We offer a full range of services to anybody involved, or interested, in the sector





Marine services

- Resource Assessment
- Technology foresighting
- Technology review and due diligence
- Device modelling
- Control system design
- Market/Commercialisation studies
- Device interaction
- Training courses
- Forecasting





Garrad Hassan Solar



Solar Energy Experts
worldwide



Solar Energy Experts

- PHOTOVOLTAIC (PV)
- CONCENTRATED SOLAR POWER (CSP)





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