

Renewable energy consultants

**GL** Garrad Hassan



# The world's largest renewable energy consultancy

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[www.gl-garradhassan.com](http://www.gl-garradhassan.com)

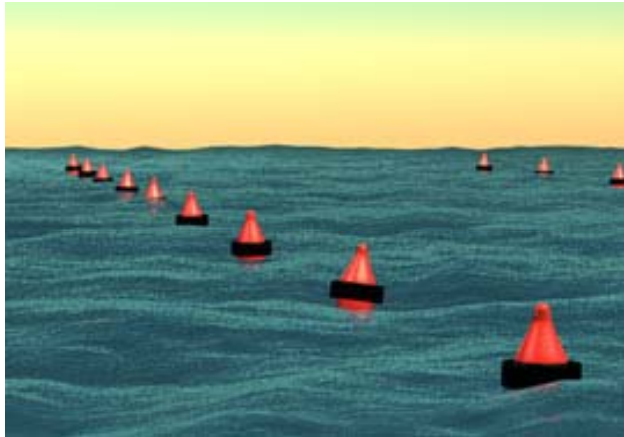


## Offshore Wind Farm Services



- Consultancy services to:
    - Wind turbine manufacturers
    - Investors/Lenders
    - Wind farm developers/owners/operators
    - Government/NGOs
  - Wind energy yield analysis
  - Turbine Technology
  - Metocean services
  - Due Diligence
  - Among others
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- GL Garrad Hassan provides support to offshore wind farm stakeholders
  - Developers, investors, contractors, operators, lenders
  - Offers specialist development, analysis and project management services based on long track record in the wind industry
  - Includes 20 years involvement in offshore wind and in the recent generation of commercial projects
  - Strong wind farm project management experience

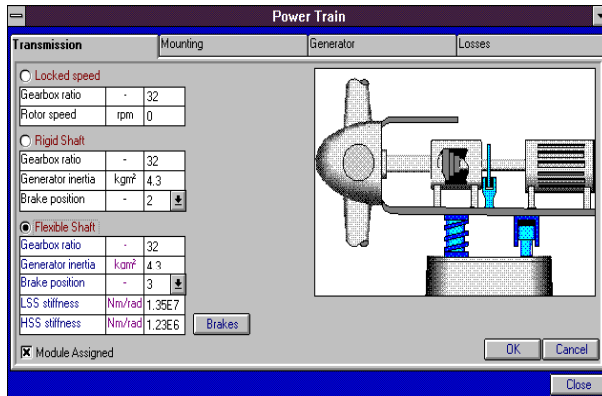
## Wave & Tidal Project Services



- Manufacturers
  - Device design
  - Innovative technology evaluation
- Investors/lenders
  - Due Diligence Services
- Project Developers
  - Resource and energy analysis
  - Site feasibility studies
- Others

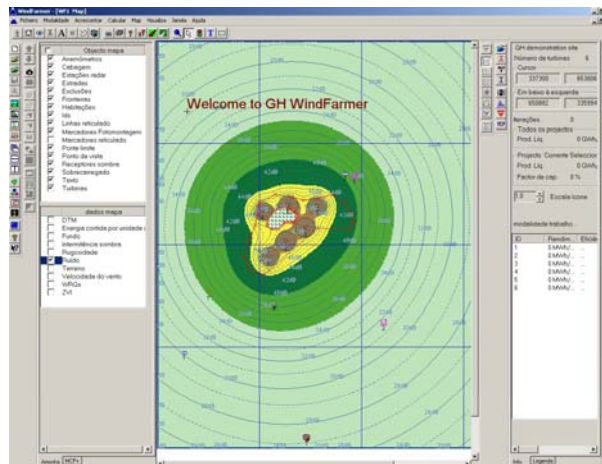
- GL-Garrad Hassan offers technical support to wave and tidal project developers, device developers, investors, contractors, operators, financiers and other stakeholders
- It delivers specialist development and analysis services based on long track record in the wind industry
- Wave and tidal team now includes a dozen specialist engineers
- High volume R&D experience
- Part of multi-project teams on EU funded projects

# GH products



## GH Bladed Wind Turbine Design Software

- Industry standard turbine design software
- Performance and loading calculations for the design and certification of onshore and offshore wind turbines



## GH Windfarmer Wind Farm Design Software



## GH SCADA