

FGH GmbH

Energized by Experts.

- Engineering Services
- Grid Code Compliance Assessment
- Network and System Studies
- Planning of Grid Integration
- Software Solutions
- Engineering for LVRT/HVRT Test Systems
- Technical Consulting



Services for project developers and plant operators

Project developers and plant operators benefit in the entire field of electrotechnical grid integration from the customized solutions of FGH.



Our services include:

- Planning and engineering of electrical layouts and components as well as configurations and simulations
- Grid connection assessments
- (Comparative) analyses of planning options for generation plants
- On-site inspections and functional testing
- Testing of protection devices
- Measurements of generation plants
- Electrotechnical analyses
- Technical consulting and expert workshops

Our experienced and highly qualified team supports you with technical excellence in your national and international projects.

About FGH

FGH has been founded in 1921. FGH has since been a central point of contact for grid operators, manufacturers of power generation plants, units, and grid components as well as for plant operators and project planners. Today FGH comprises three corporate entities: FGH e.V., "Forschungsgesellschaft für Elektrische Anlagen und Stromwirtschaft" [Research Association for Electrical Plants and the Electricity Industry] is a registered non-profit association in the hands of 36 member companies from the power industry. FGH GmbH has been spun off from the association for the purpose of contract research and technical consulting. FGH Zertifizierungsgesellschaft mbH is the testing, inspection, and certification body of FGH, offering independent and accredited certification services for power generation plants, units, and grid components. Both companies are 100% subsidiaries of FGH e.V.

FGH is a pioneer and implementer of future topics in the field of electrical energy supply. As a pioneer in the grid integration of decentralized generation plants, it contributes to the expansion, further development and technical integration of renewable energies and plays a key role in the safety and quality of transmission and distribution grids – both nationally and internationally. For over 100 years, FGH has focused its work on the application-oriented transfer of research into practice and serves as an active dialogue and knowledge platform for the energy industry.



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Services for manufacturers

Manufacturers of generation plants and components for electrical power supply benefit from FGH as a fully comprehensive service partner. We accompany you through the entire product qualification process.

Our services include:

- Customer-focused engineering services in all terms of grid connection and prequalification of products
- Analysis of country-specific grid code requirements, technical consulting for grid code compliance and support in international projects
- Testing and measurements with our cooperation partner (accredited according to ISO/IEC 17025) including optional provision of testing equipment and resources
- Model validation according to international standards
- Engineering for FRT-test systems



As your central contact partner, we coordinate the entire product qualification process and provide you with the corresponding test bench and measurement capacities.

Services for grid operators

Grid operators benefit from the technical depth of FGH's services in form of grid and system studies, testing and planning regarding the grid integration of generation plants, and individual software solutions for grid calculation and fault data analyses.



Our services include:

- Grid planning
- Design of protection concepts
- Assessment of the grid connection of generation facilities
- Optimization of network operation
- Optimization of industrial networks
- Grid Code development
- Technical expert workshops
- Research and development
- Software products and solutions

The development of individual and customer-centric software products and solutions is one of the central competences of FGH. INTEGRAL and InterAss are two of the leading software tools for network planning, network calculation and fault statistics for German and European network operators.

Benefits for our customers

- ✓ **A strong partner with more than one hundred years of experience in the field of electricity supply and in all terms of technical grid integration**
- ✓ **Highly qualified engineers and experts on system and facility level**
- ✓ **Practical solutions on the highest technical level**
- ✓ **A unique network of competencies and experienced partners**

Do you have a specific technical question or a concrete project? Benefit from our extensive and proven project experience. We are looking forward to hearing from you.



Information and contact

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