

***"Engineering Capability
is the Combination of
Knowledge and Inspiration"***

Jean Fermière

Company Profile

H&C-VGU Engineering GmbH (a private limited liability company) is the result of a merger with effect from 27.09.2000 between H&C Engineering GmbH and VGU Ingenieurgesellschaft für Energie- und Umwelttechnik mbH. VGU was founded 1980 as an independent engineering company with head office in Gummersbach. H&C Engineering GmbH was founded in September 1997.

The only managing shareholder of H&C-VGU Engineering GmbH is Dr.-Ing. Mohammad Yaqub Chughtai and enjoys with his experience of more than 35 years worldwide renown in energy and environment protection.

Our company

We are Architect Engineers and independent provider of process expertise with a creative and dynamic team backed by modern management concepts and highly efficient hardware and software.

Our activities are concentrated on the optimisation and application of well-established technologies in combination with the investigation and development of new processes and their practical realisation.

We do not regard technological progress as an end in itself, but see it rather as an answer to the problems imposed by the market and faced in consequence by our customers. In the foreground of our endeavour lies the principle of applying the wide spectrum of competence enjoyed by our team to the planning and realisation of complex overall processes.

Our philosophy envisages the direct participation of the individual members of the team in the success of our enterprise. This unity is our strength. We wish to be regarded as the partners of our customers and the best way to do this is to make their concerns our own.

There are no geographical limits to the activities of our company. Knowledge knows no frontiers.

Our leitmotif

We develop and plan “intelligent” plants for decentralised energy supply, utilising regenerative energy resources with integrated environment protection. The environment protection plants have the first priority of sustainability. Our aim is to provide the highest level of quality and a comprehensive service.

Our team

We are a small but highly motivated team of graduate engineers, the majority of whom hold doctorates. All team colleagues have many years of professional experience with leading companies in the fields of power engineering and environment protection. Our

particular strengths lie in process optimisation and simulations for customised unit planning. Each of us is in a position to very quickly grasp the problems posed by our clients and find optimum solutions for them with the aid of the most modern diagnostic and management tools available.

For the realisation of our ambitious development projects we cooperate closely with other engineering enterprises, universities, research institutes and scientific bodies.

Our Services

We believe firmly in a long-term service partnership with our customers. Quality and the close relationship with our customers have the highest priority for us.

In order to fulfil our customers requirements as closely as possible we have structured our product range as follows:

Energy

- Power generation plants based on fossil fuels
 - Coal
 - Natural Gas
 - Oil

- Renewable energy plants
 - Wind Turbines
 - Hydro Turbines
 - Solar Thermal Power
 - Photo Voltaic Cells (PVC)
 - Hybrid Technology, a combination of wind turbine and PVC
 - Biogas Plants

- Hydrogen technology
 - Production of Hydrogen from Biomass
 - Transport
 - Storage
 - Hydrogen as Fuel

Environment Protection


- Waste Management
 - Municipal
 - Industrial
 - Hazardous
 - Hospital
 - Ammunition

- Effluent Treatment
 - Municipal
 - Industrial
 - Reuse of treated Effluent

- Sewage Sludge Reutilisation
 - Dewatering
 - Drying
 - Mono-combustion in cyclone slag-tap furnace or fluidized bed
 - Co-combustion in solid waste incineration and coal-fired plants

For components, subsystems and turnkey plants in the above mentioned technological fields, we offer engineering services in the form of

- Consultation
- Basic calculations
- Concept studies
- Project planning
- Basic and detail engineering
- Licensing applications
- Subsidising concepts
- Production of tenders
- Research & Development
- Economic analyses
- Ecological balances
- Financing models
- Contracting
- Project management
- Controlling
- Plant commissioning
- Company management
- Operating and maintenance

Engineering GmbH
The logo for H&C VGU, with 'H&C' in a stylized font and 'VGU' in a bold, green font.
Energy • Hydrogen • Environment

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