



weyer group



**allround. smart.**



The weyer group is a group- and supplier-independent corporate association of engineering and consulting companies, linked under company law. We are based in Germany, Switzerland, Austria, Poland and the Netherlands. With over 110 permanently employed personnel, 20 of whom are officially recognized experts, we cover all aspects of engineering and consulting in the field of process and environmental engineering.

As a general contractor, we execute projects in the fields of process engineering and environmental protection in an interdisciplinary manner. Our principals come from the chemistry, pharmacy and mineral oil sectors, as well as from supply and disposal. Not only multinational groups, but also established medium-sized companies, administrative bodies and ministries belong to our circle of clients.

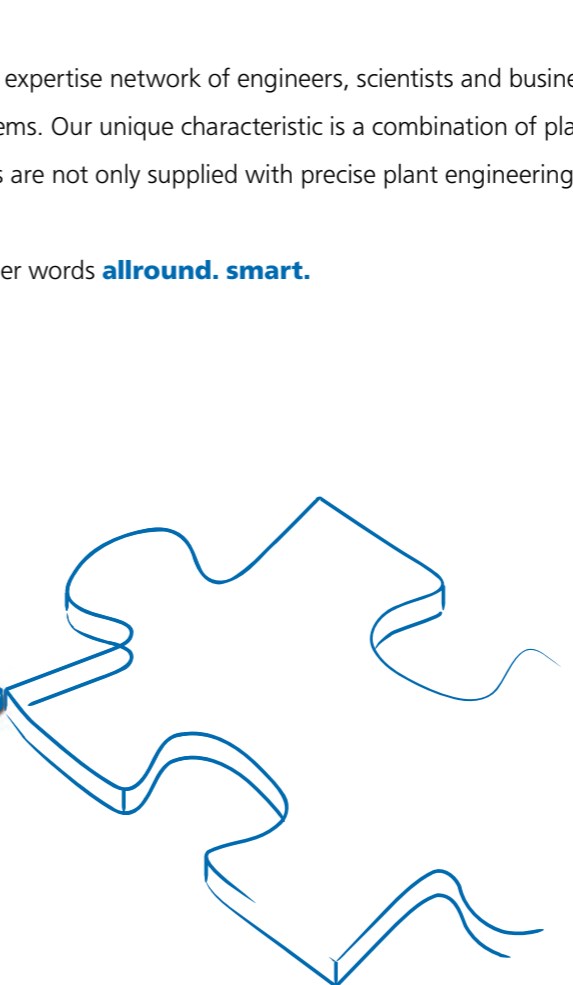
**“Quality is never an  
accident; it is always the  
result of intelligent effort.” “**

John Ruskin (1819-1900), English author,  
art critic and social philosopher



As an expertise network of engineers, scientists and business people, we focus on interdisciplinary solutions to problems. Our unique characteristic is a combination of plant planning and expert opinions. Consequently, our clients are not only supplied with precise plant engineering, but also with all related expert opinions.

In other words **allround. smart.**





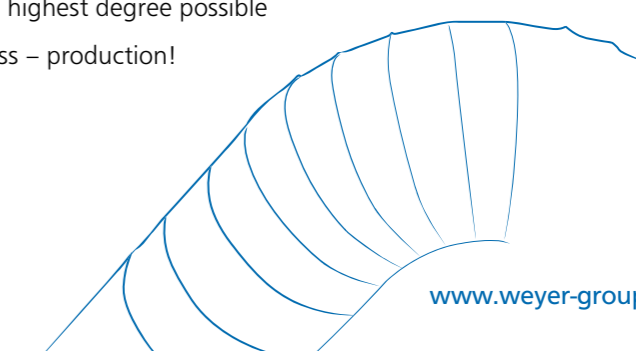
You want to expand production capacities or increase the economic efficiency of your plant. We plan new process engineering systems, or optimize existing systems, up to and including commissioning. We have a fixed team of project managers, expert engineers, technicians, and draftspersons who guarantee a wide range of expertise and flexibility.

**Services**

- Project definition
- Process engineering conceptualization
- Pre-basic/ Basic engineering
- Detail engineering
- Purchasing
- Installation supervision
- Commissioning
- Qualification/validation

**Your benefits**

Adherence to the budget and deadlines to the highest degree possible allows you to concentrate on your core business – production!





In-depth GMP know-how, quality awareness and reliability are essential for you in your pharmaceutical projects. The weyer group will assist you with development and production units for manufacturing active substances and dosage forms.

#### **Services for engineering and planning**

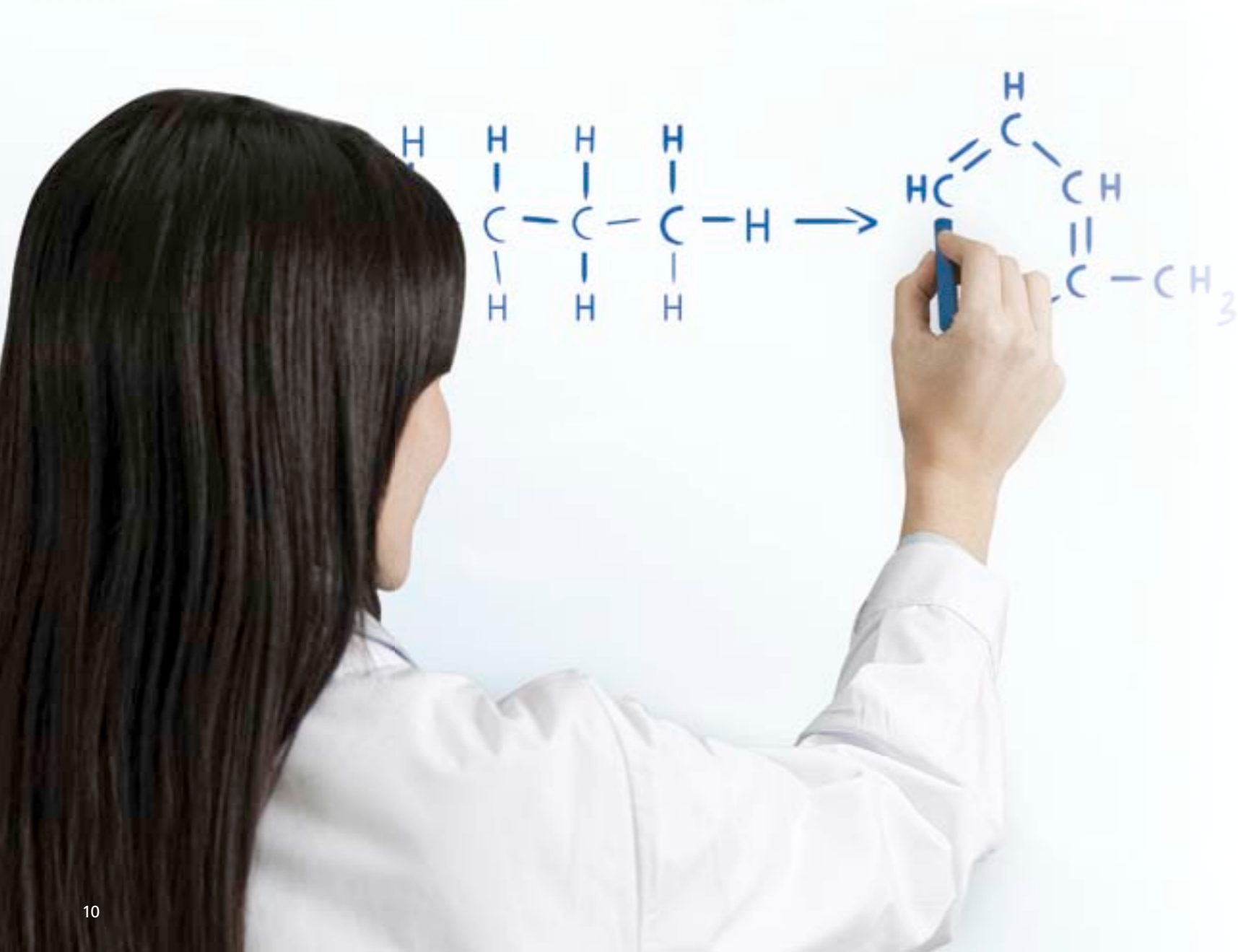
- Feasibility and concept studies
- Basic engineering
- Detail engineering
- Procurement support
- Installation planning, monitoring and coordination
- Commissioning planning, monitoring and coordination

#### **Service for qualification and validation**

- VMP, QMP
- Planning, realization, monitoring/coordination of DQ, IQ, OQ, PQ
- Planning and realization/moderation of risk analyses
- Validation support
- Supplier audits

#### **Your benefits**

30 years' experience in integrative consulting and engineering services in the pharmaceutical sector.



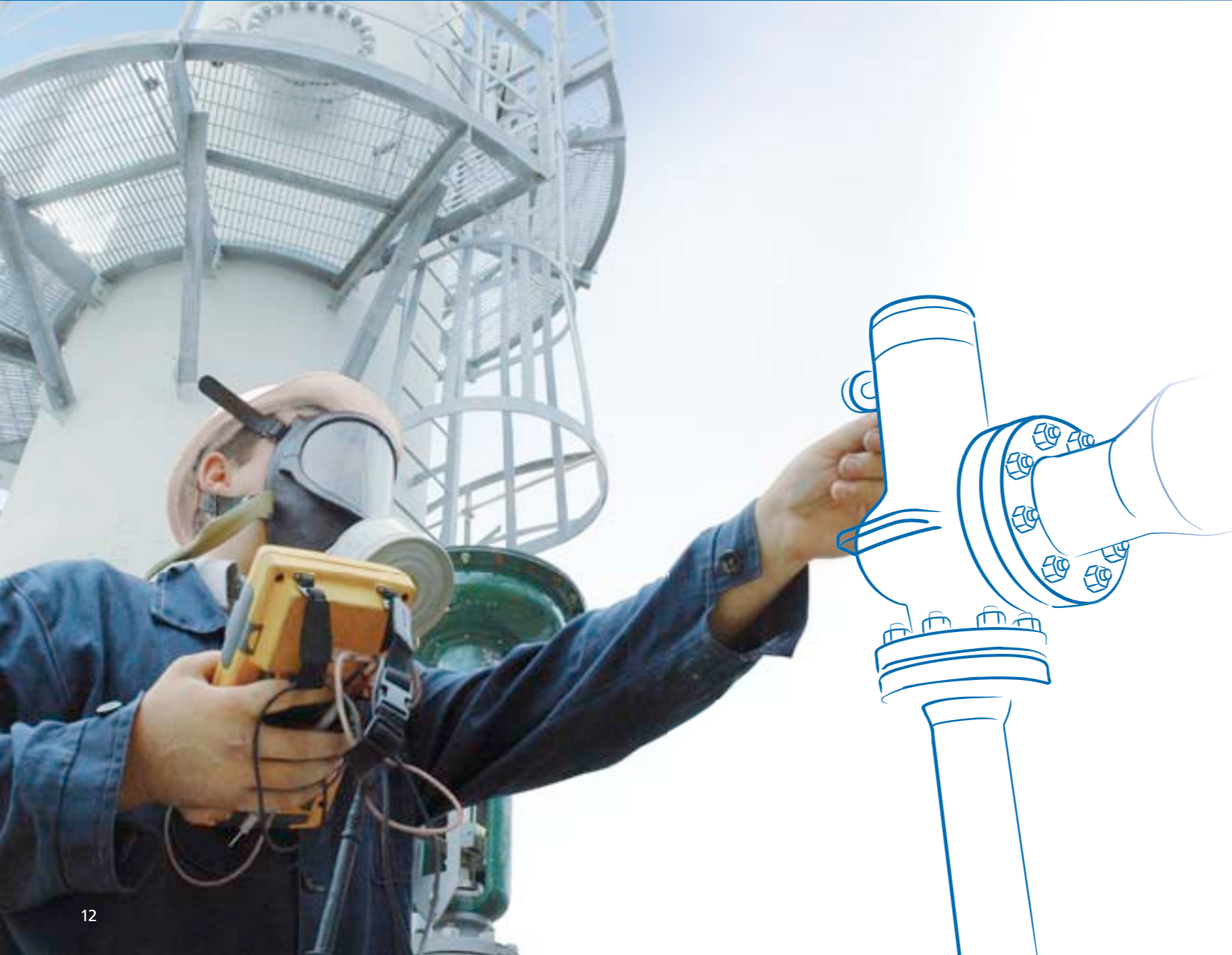
You are looking for solutions to complex problems for which there are, as yet, no standards. Using ultra-modern engineering and simulation tools, our experts depict the process results to be expected.

**Services**

- Simulation of complex processes
- Structural mechanics (FEM)
- Piping stress calculations and pressure surge simulation
- Fluid mechanics
- Simulation of refinery and process furnaces
- Flare systems and simultaneity analyses of sources of emission

**Your benefits**

You save, because our reality-oriented planning shows the most cost-effective way in advance – that is, before you invest in equipment



Your goal is the safe handling of hazardous substances or processes. The protection of personnel and plant equipment must be ensured at all times. We plan the handling of hazardous substances and the relevant technology on your behalf. As external experts, we supply specific recommendations on how you can comply with statutory regulations as cost-effectively as possible.

#### Services

- Hazard and risk analyses (e.g., HAZOP, PAAG)
- Application of the German Hazardous Incident Ordinance (Directive 2003/105/EC)
- Fire protection
- Explosion protection
- Water protection
- Hazard evaluations in accordance with the German Occupational Health & Safety Act (ArbSchG)
- Classification of hazardous substances and preparations
- Occupational health and safety/CE marking
- Safety and health coordination
- Support in terms of the REACh process

#### Your benefits

You receive field-tested handling concepts and are given the certainty of having protected people and material in an effective way.



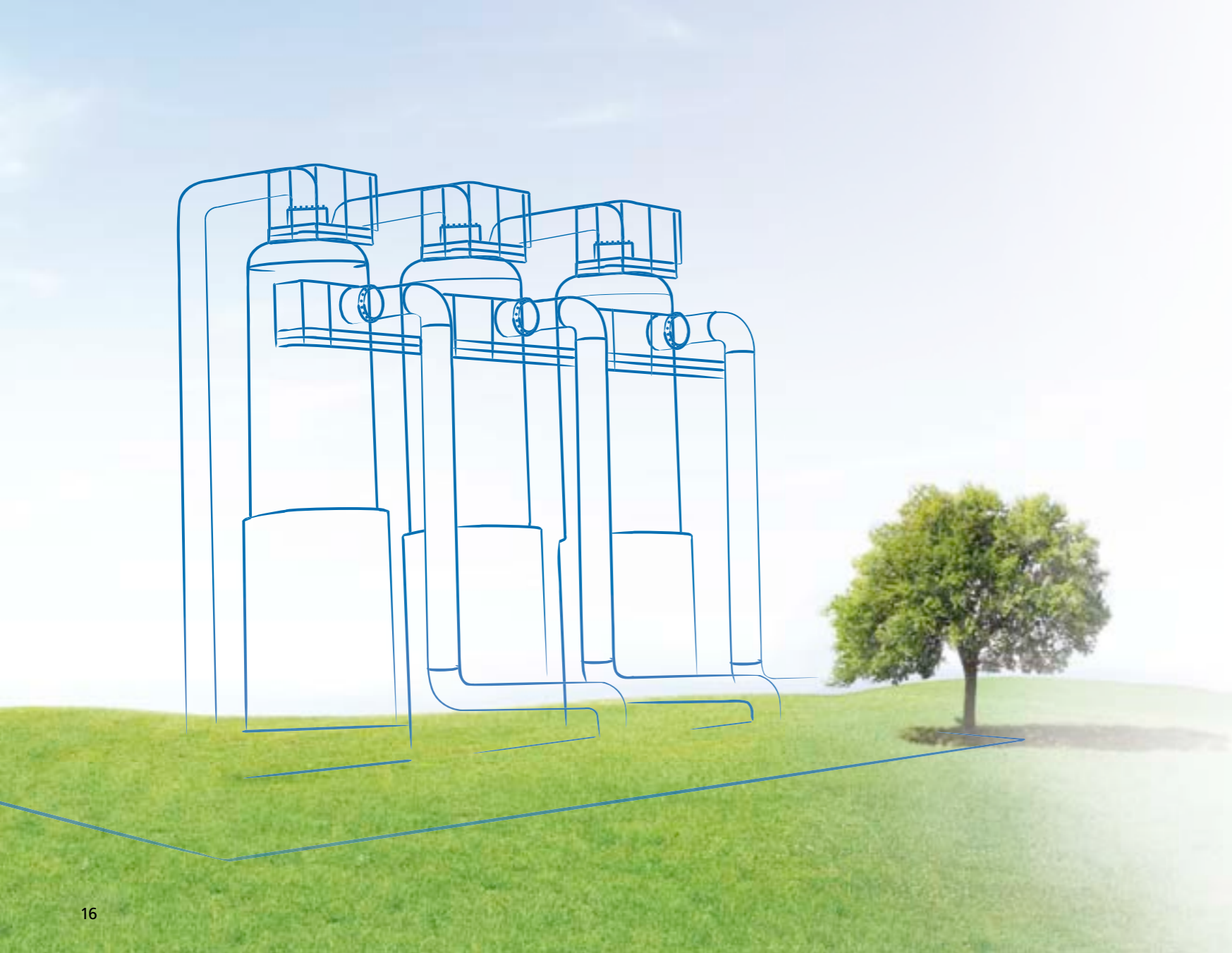
You are seeking the solution for an interdisciplinary problem in the field of plant safety and environmental protection. Our team of experts, comprising engineers, scientists and businessmen, finds a legally sound solution to the problem.

#### Services

- Water protection in accordance with the German Ordinance on installations for handling water-polluting substances/German Federal Water Act (VAwS/WHG)
- Plant safety in accordance with § 29a of the German Federal Immission Control Act (§ 29a BImSchG)
- Licensing procedure in accordance with environmental legislation
- Verification in greenhouse gas emissions trading
- Construction price determination and billing in building construction and civil engineering
- Energy manager (IHK)/European energy manager
- Electrical engineering/Instrumentation & Control
- Competent persons in accordance with the German Operational Safety Ordinance (BetrSichV)
- Qualified work-safety personnel
- Safety and health protection coordinators

#### Your benefits

You fulfill all relevant statutory requirements. New projects can be checked in advance for practical feasibility by our specialists.



You want to build or extend a plant. You would like to complete the necessary licensing procedure as quickly and smoothly as possible. We check how you can fulfill the statutory requirements as cost-effectively as possible. We are at your side when negotiating modifications subject to approval with the competent authorities.

**Services for plant operating companies**

- Licensing management
- Environmental compatibility studies
- FFH compatibility studies
- Emission prognoses for air pollutants
- Noise and odor emission prognoses
- Species protection technical studies
- Landscape conservation support plans
- Environmental remediation and optimization concepts
- Environmental due diligence
- Emissions trading

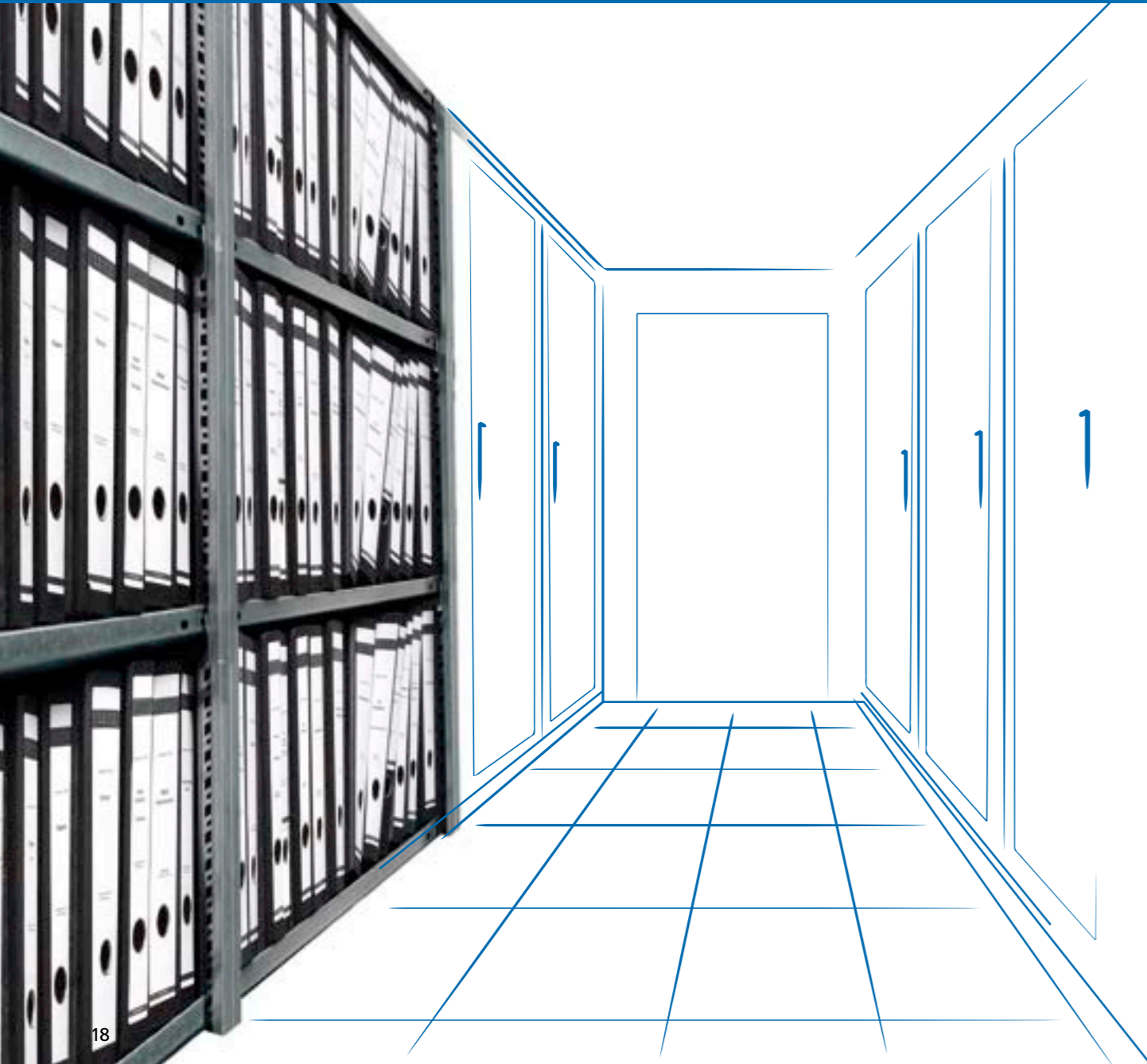
**Services for licensing authorities**

- Checking of licensing applications and expert opinions
- Compilation of surveys
- Preparation of licenses
- Database-supported recording and evaluation of objections
- Organization and conduction of hearings

**Your benefits**

You benefit from a well conceived licensing management. Make use of our experience and comply with the environmental regulations as cost-effectively as possible.





Coordinated and transparent data and information should be available at all times. We develop tailor-made databases by technicians for technicians that ensure simple schedule control and monitoring.

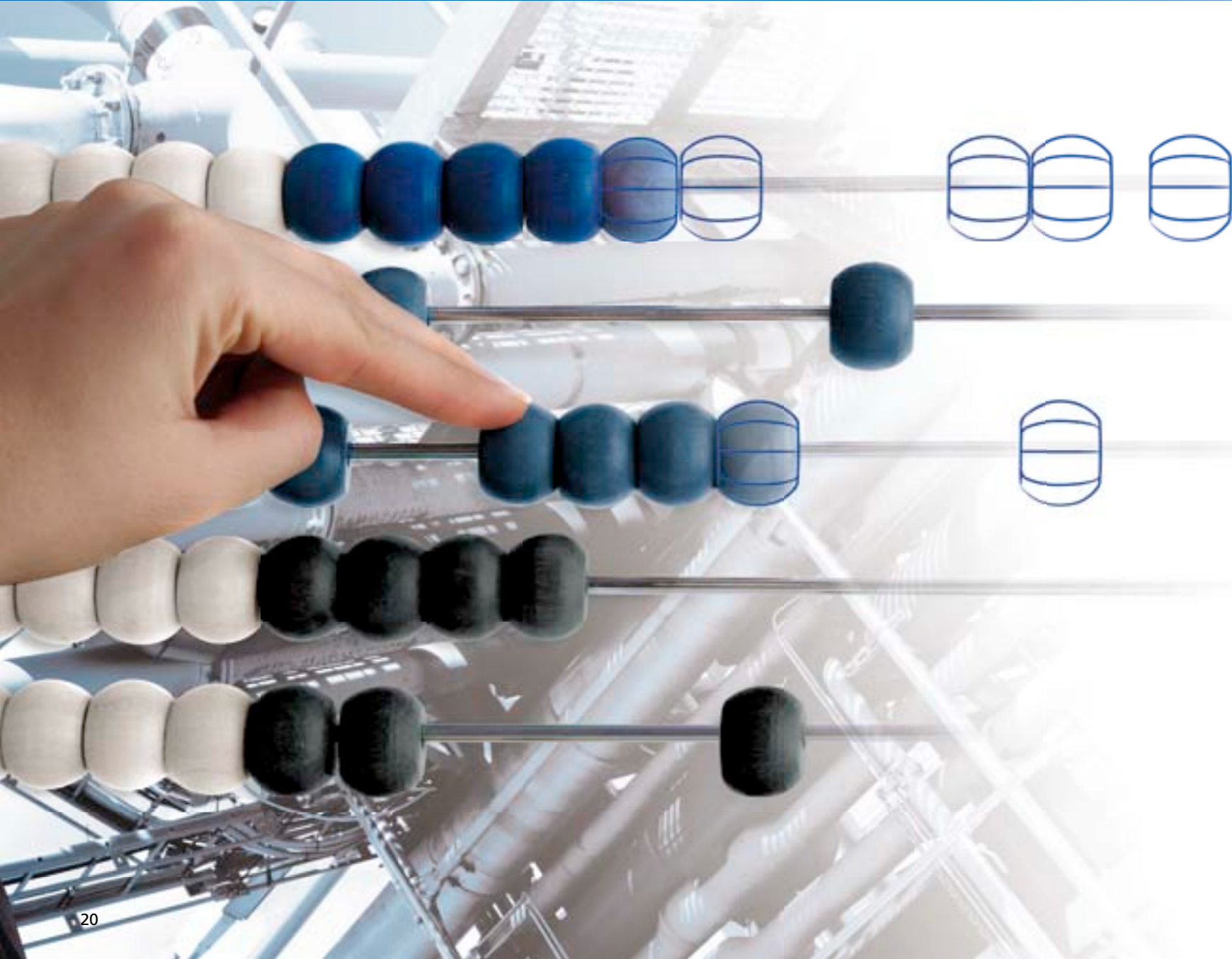
**Services**

- Administration system for industrial plants to record licensing data (VFI), inspection dates and hazard evaluations
- Objection management for licensing procedure with public participation (Cristal) to record and manage objections, as well as to prepare and conduct the hearing
- Project-monitoring program and employee-related recording of time worked (PAKO) for engineering and consulting companies
- Customer-specific development of databases

**Your benefits**

From now on you can filter the necessary data out of the database in seconds.  
You fulfill your documentation obligations without additional expense.





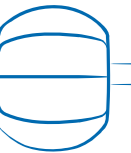
You want to have investment decisions, revisions, or organizational issues evaluated according to technical and economic criteria. We take the economic effects into account even when defining the technical concept.

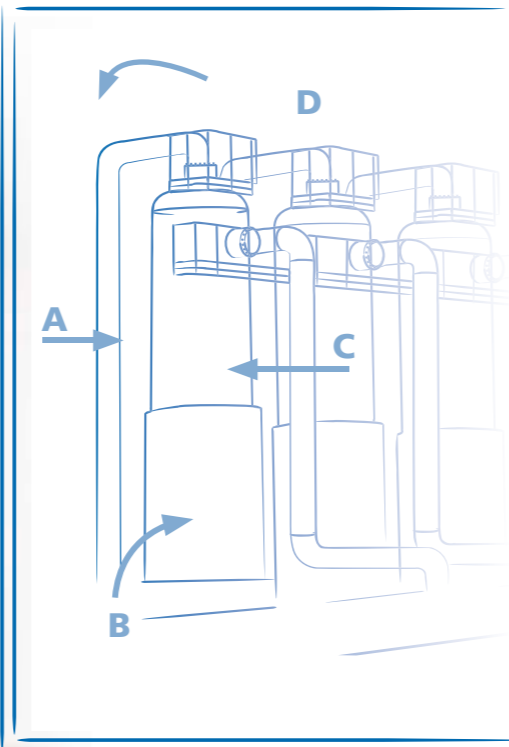
#### Services

- Space management (prognosis of the long-term cost of and proceeds from the development of space)
- Analysis of municipal uses, e.g. surface areas, energy efficiency, regenerative energy, waste management, (regional) large-scale projects
- Tender invitation management
- Technical revisions and construction controlling
- Energy consulting
- Preparation of expert opinions in accordance with § 6 of the German Combined Heat and Power Act (KWKG)
- Technical/environmental due diligence
- Economic efficiency analyses, feasibility studies
- Logistics consulting
- Implementation of quality, environment and energy management systems
- Contaminated site management

#### Your benefits

You are provided with a solution that is convincing both from a technical and a commercial point of view.





You would like your employees to be on the edge of the current technological development. Carrying out more than 500 projects in any year, the weyer group experts have an immense practical know-how and are at the cutting edge. The weyer group is pleased to pass on this knowledge in highly specialized and customized seminars, workshops and in-house training courses.

**Services**

- Optimization of process-engineering production plants
- Operational safety
- Explosion protection
- Ordinance of industrial accidents
- Machine guidelines
- Fire protection
- Water law
- Environmental protection
- Air cargo security

**Your benefits**

Make the most of our extensive wealth of experience – by practitioners for practitioners: expert knowledge for engineering.

[www.weyer-group.com](http://www.weyer-group.com)