

EXPERTISE & INDIVIDUALITY

As a private company, founded in 2002 and located in Götzis, Austria, we are active in the areas of **biomass** and **energy supply systems**, with staff benefiting from over **20 years of experience**. The company is a sought-after and expert partner in the global market and provides its clients with an unparalleled range of **expertise** and **individuality**.

Our team creates very **complex systems**, as well as providing other services, in Austria, Germany and Italy.

Highly qualified engineers from the wood processing industry, mechanical engineering, plant technology and construction and HVAC installation technology are responsible for **successful implementation** of wide ranging projects.

The increased demand for **renewable energy**, **refined fuels based on wood** and specifically for **highly-efficient** and **environmentally-friendly energy supply systems** in every possible area has opened the global market to us.

On the basis of our vast, comprehensive experience, we have created **compact service** packages which, of course, can be **modified individually** and according to your needs:

- M1 EVALUATION
- M2 PRE-STUDY
- M3 OVERALL ENGINEERING
- M4 ENGINEERING / CONTROLLING
- M5 CONSULTING
- M6 CONTRACTING

We would be delighted to impress you with our services and projects we have already implemented in a personal first-time meeting with no obligations!

längle engineers 
energy supply systems

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CONSULTING & ENGINEERING

Biomass and energy supply systems



Efficient ⇨ Economical ⇨ Innovative ⇨ Ecological

PRODUCTION FACILITIES & WOOD FUEL REFINING

In pelleting and briquetting facilities, unadulterated biomass is refined into fuel which can serve as a **replacement** for **crude oil** and **natural gas** in private households, trade and industry.

End products are then produced correspondingly meeting the standards for ENplus A1/A2 pellets, industrial pellets and wood and bark briquettes. The necessity for a **worldwide reduction of CO₂** will play a major role in the future, causing especially large coal power stations to use **great quantities of industrial pellets**, substituting coal (-> cofiring: the co-combustion of biological fuels).



Because of their design, fully-automatic **pellet** and **briquetting** plants require **extensive knowledge** of the necessary system technology, raw material processing for machining, sieving and drying, as well as compacting and storage — the selection of an **environmentally-friendly and cost-efficient supply of energy** is just as essential as an optimally selected **logistics plan** for the **flow of material** to the production site.

längle engineers® provides comprehensive experience in the development and implementation of your wooden pellet and briquette production plants, with production capacities of 40,000 to 400,000 tonnes per year.

BIOMASS HEATING PLANTS & BIOMASS COGENERATION PLANTS

Central heating and cogeneration plants in combination with corresponding local/district heating and / or electricity networks require an especially detailed and precise preliminary examination of their efficiency.

The technical and commercial task formulation is at the very least as complex as the implementation or concluding execution.

Numerous **individual combination possibilities**, such as heat and cold production and/or electricity generation etc. are paired with various different sources of primary energy and system types, and they offer flexible implementation for clients from all areas of **industry, trade, energy supply, project development, community development** and even **private investors**.

längle engineers® provides **extensive experience** during feasibility checks, development and the implementation of such energy plants, with both the **highest level of energy and the highest economic efficiency**.



ENERGY SUPPLY CONCEPTS & INDIVIDUAL SYSTEM/OVERALL APPRO-

Constantly increasing energy prices, ongoing production changeovers in industry, necessary production expansions, climate protection regulations etc. require new ideas for existing and/or new energy supply facilities.

There is great potential for efficient, economical and environmentally-friendly supply and system designs.

At **längle engineers®**, we have specialised in developing and implementing the most technologically and economically optimal system design with our service packages, developed for your individual requirements.



- CHP and trigeneration plants
- Cooling and cold water systems
- Storage and ice storage systems
- Compressed air systems
- Cold and heat extraction units
- Heat pump systems
- Heat recovery systems
- Solar energy systems
- Ventilation and air conditioning systems
- Process measuring and control technology