

Company profile

The Polytechnik company was founded in 1965 as a two-man operation. Its original activities centered around the development, planning and production of equipment in the field of alternative energy and environmental protection in the lumber industry, as they do today.

Since the 1970s, the POLYTECHNIK company has been intensively involved in the thermal utilization of renewable biogenic fuels and related plants and systems.

By now, the POLYTECHNIK group is one of the world's leading suppliers in the two strategic business segments mentioned above, providing equipment, systems and services that are individually designed for customers in the lumber industry, the public sector, major energy suppliers, and industrial users of energy. In each business segment, the group is among the top companies in the market and, with its broad range of products, is able to offer turnkey solutions to its customers based on innovative technologies. The POLYTECHNIK portfolio also includes a comprehensive range of services worldwide.

The POLYTECHNIK group, with head offices in Weissenbach, Austria, employs around 230 people and has 4 manufacturing sites and more than 15 engineering, sales and service subsidiaries throughout Europe, as well as 4 additional offices overseas. The company's export rate is currently almost 99%.

POLYTECHNIK is a global technology leader and supplier of biomass combustion plants and known for the planning and delivery of turnkey plants. The company offers these fired boilers with a thermal output ranging from 300 kW to 30,000 kW (single unit output).

Depending on the type and water content of the fuel, various combustion systems (reciprocating grate, horizontal grate, and horizontal combustion grate) are used. Warm water, hot water, steam and thermal oil are used to transfer the energy. The plants can be used to produce heating and process heat, as well as electricity. The electrical output ranges from 200 kW_{el} to 20,000 kW_{el} (per turbine generator).

On the basis of its decades of experience, Polytechnik has completed numerous reference installations for well-known customers in the core markets of A, D, NL, I, CH, F, E, FIN, S, the Baltic States, and Eastern Europe (Poland, Russia, Czech Republic, Romania, Slovakia, Slovenia, etc.), and Japan and Korea. All told, more than 3,000 combustion systems have been installed to the complete satisfaction of the company's customers.

Continuous further development of the existing products is ensured by ongoing major research projects, as well as collaborations, such as those being conducted with the Technical Universities of Munich, Vienna and Graz, as well as with the Austrian Research Institute / Institute for Eco-Technology in Vienna.

The result is a technology that achieves levels far below the emission thresholds permitted by law, that increases effectiveness, and that thus enables almost unlimited use in the combustion of biomass.

In 2011, Polytechnik was honored with the Neuland Award for the second time. This prize recognizes companies that successfully utilize market opportunities in Central and Eastern Europe and generate jobs through these exports. Polytechnik has already received several international awards, each time donating the associated cash prizes to social institutions.

Polytechnik's strategic business segments are clearly focused on the following groups of customers:

- lumber industry – biomass combustion installations, extractor and filter units
- public institutions, cooperatives – local and district heating installations
- electrical supply companies, lumber industry – CHP – installations
- general industry with high energy requirements – heating or CHP installations

Customer advantages resulting from the acquisition of alternative energy installations, which are initially expensive, but offer technologies that are innovative and continuously further developed, are as follows:

- considerable savings in fuel costs through the use of biomass instead of fossil fuels (oil price)
- biomass as a carbon-neutral, renewable fuel
- subsidies of investment costs available as part of certain national and international development programs for these pioneering methods to produce energy while conserving resources and the environment
- low operating costs through a high-quality product
- longer-term availability and better emission levels than most competitors
- better combustion results, also in the case of lower quality biomass with relatively high moisture, such as wet bark, etc.
- product safety based on decades of experience

Value creation steps that require intense know-how (acquisition, engineering, production control, quality control, commissioning) and overall project management are carried out at the Weissenbach head office. From there, too, all of the plants that have been installed worldwide are monitored and serviced electronically by means of telemaintenance. The vital technical knowledge relating to production is maintained and further developed in Weissenbach.

Production of the plants is carried out in four different production sites in the European Union. These companies are certified to ISO 9001 and operate a thorough quality management system.

By virtue of ongoing research and development, the Weissenbach location also has one of the most modern of testing facilities for biomass fuels. At this site, it is possible to load and combust a very great variety of fuels and then to measure and test their emission levels.

At the end of 2014 Polytechnik was awarded a special honour. The Austrian Ministry of Economy has bestowed the National Coat of Arms Award of the Republic of Austria on the company for its outstanding achievements and services rendered to the country's economy. Now it holds its place among those few companies that have this award as a special sign of recognition and respect for their leadership and successful work in their respective industries.

Polytechnik is not only aligned to current trends for producing ecologically compatible products, but also actively enables sustainability by promoting cutting-edge technology in growth markets, thus making a considerable contribution to the carbon-neutral generation of energy.

In so doing, the company bases its effort on its customers' requirements. Its ultimate goal is customer satisfaction. The fact that it has been successful in meeting this objective in the past is demonstrated by an impressive list of reference projects and the high demand for Polytechnik products.

Polytechnik Luft-und Feuerungstechnik GmbH
Hainfelderstrasse 69, A-2564 Weissenbach, AUSTRIA
Phone +43 2672 890-0, Fax: +43 2672 890-13
E-Mail: office@polytechnik.at, Internet: www.polytechnik.com