

SOFTWARE

100% BIOMASS AS PROCESS ENERGY

AT PENEDER BAU-ELEMENTE GMBH



COMPANY INFORMATION

As a specialist in industrial and commercial construction and fire protection, Peneder has grown over its 100-year history from a simple craft business in Atzbach, Upper Austria, to an internationally active family business with almost 400 employees.

True to the motto 'Sustainability in action', the curing process for powder coating was completely revamped in 2021 in the automated production of fire doors and gates. The complete substitution of gas with biomass and the associated ecological and logistical optimisations also result in increased productivity.

FEATURES/ADVANTAGES



- **38% reduction in energy consumption** through **redesign of the powder coating process environment**
- **Significant reduction in cycle time**, through optimisation of the process chain
- Stable **follow-up process** through **cooling zone**
- **Heat recovery (70°C)** for the **bonding process** and **building heating** through **waste heat utilisation**
- Switch to **100% biomass** through **reengineering** of the entire process



STIWA **Building Solutions**
Your Partner for Digitalization & Decarbonization

PENEDER 
FAST FORWARD

OUR SERVICES

- **Engineering:** Even before building planning begins – when the potential for influencing costs is greatest – we develop new innovative approaches in the areas of production, logistics and energy.
- **Subsidy processing:** During the building planning phase, we examine possible subsidy sources and handle subsidies from submission to final settlement.
- **Integral engineering:** To ensure that innovative goals are achieved, we coordinate the various technical planners, such as electrical and building services, logistics, production, process, geology, etc.
- **Building Automation:** This controls and analyses all building services and communicates with energy generation, production facilities and intralogistics systems. This allows synergies between the building and production to be exploited – blurring the boundaries between manufacturing and building automation.
- **Support during the first year of operation:** After acceptance, we harmonise the entire system, including the building and production.
- **Support:** Reliable support from our experts.
- **Life cycle support:** Based on a wide range of automatically collected data, we regularly analyse our customers' energy consumption, user behaviour and production processes. We optimise energy requirements and production conditions for performance efficiency and product quality and analyse system reserves for future production expansions and conversions.
- **Sustainability and legal obligations:** Preparation of CO2 balances and performance of energy audits in accordance with EEffG (Austria) and EDL-G (Germany)



STIWA GROUP BUILDING TECHNOLOGIES

With our experience in mechanical engineering and our approach of viewing a **building as a machine**, we master all challenges and interface issues between people, machines and buildings. We identify, analyse and optimise your environment so that **you can focus on your production**. Whether new construction or existing buildings, our services enable us to create **tailor-made solutions** for both greenfield and brownfield sites. By **integrating your machines**, we create a **needs-based supply** for all systems. With our software we provide the data for decarbonisation.

CONTACT



Philipp Stelzmüller
Head of Business Unit
STIWA Building Solutions

P: +43 664 80 80 38 65
M: philipp.stelzmueller@stiwa.com



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