



Biomass cogeneration plant (CHP) Wiesmoor/DE, built in 2012 and operated by ICS ENERGIETECHNIK GmbH as main owner until 2014

# **MODERN AND SUSTAINABLE ENERGY SUPPLY FROM ONE PARTNER**

# OUR SERVICES

## ICS ENERGIETECHNIK

ICS ENERGIETECHNIK GmbH, which is placed in Kumberg/Austria, operates for over 25 years with the development, planning and execution of power supply plants, which mainly use renewable energy sources such as wood residues, landscape materials and by-products from agriculture and forestry. If required also biogas plants and wind turbines as well as oil and gas can be integrated in the energy concepts created by ICS. Our overall solutions enable an economically sensible use of all available resources. Through an optimal combination of all site-related opportunities, we ensure the consumer an optimum energy efficiency, which provides with highest reliability and best efficiency heat, process steam, hot air and electricity.

## PROJECT DEVELOPMENT & ENGINEERING

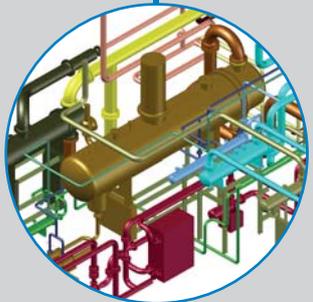
We are qualified to handle all phases of the project when required. Our range of services extends from the creation of preliminary projects, energy concepts, feasibility studies and plant planning to execution engineering of complete plants. Of course, the location-based technology is individually adapted and developed by us.

**Our core competencies are the fabrication, organization and operation of the energy-supply plants.**

We work throughout Europe with renowned energy suppliers, engineering offices, manufacturers and state-recognized institutions, which makes it possible to achieve best results for the construction and operation of our equipment.

## ALL FROM ONE PARTNER

Due to the diversity of our portfolio, it is possible to offer always an optimal energy supply. In addition to project development and planning, we are a plant manufacturer and supplier of turnkey objects that are built, assembled and commissioned by us, renowned manufacturers and well trained staff. Due to our wide range of services, our business partners have the advantage of a single responsible contact for their overall projects.



# EXPERIENCE AND RELIABILITY

## EXPERIENCE AND COMPETENCE

Our company was established in 1989. After many years as engineers, planners and contractors we participated in 1994 for the first time directly as operator and partner in the construction of the thermal power station in Murau/Austria (with a district heating network length of more than 10 km and about 500 heat customer objects). Over the years, we could collect experiences in the management and operation of several thermal power stations in addition to the field of plant engineering and construction. Until today, we have planned, built and put into operation over 100 power plants with an investment volume of up to 15 million EUR each.

The last major project was built and operated by us in Wiesmoor/North Germany as main owner, and sold in 2014 after an extensive test procedure to a large company group. In the field of hot air generation in agriculture and the drying industry, we could establish as a technology leader lately.



Industrial boiler plant



Steam turbine for power generation

## OPERATIONAL RELIABILITY

The power plants we project and build run typically redundant, ensuring an optimum reliability and nearly 100 % of supply continuity. The systems work very dynamically and can adapt without compromise to every energy consumption. Expert studies (created by one of the biggest energy supplier in Germany) have shown that our plants are among the most dynamic on the market and meet the requirements of the modern control energy market.

This ensures a stable supply of energy also for customers that have very large fluctuations in consumption (for example industrial processes). The dynamic of this system allows us an uncompromising symbiosis in the cooperation with wind power and biogas plants. The plants built by us are usually designed to take up to 100 % of the energy supply in case of need (such as bottlenecks in the supply of oil, gas and other energy sources).

# SUSTAINABILITY



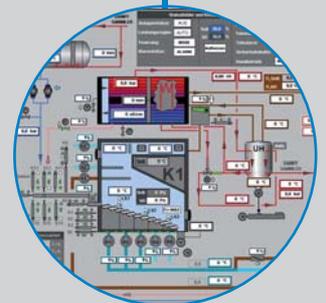
## EXISTING PLANTS

The plants and cogeneration plants built by us are successfully producing energy for years and confirm the quality of our services. The experiences obtained from our own power supply companies are implemented continuously in plant construction.



## SUSTAINABILITY FROM THE REGION

Regionally available resources are not only eco-friendly but also sustainable. By using residual wood, landscape materials, refuse derived fuels (RDF) and by-products from agriculture, for example the maize cobs resulting from the harvest, the systems we offer are reliable in the long term and close the gaps between the conventional sources of energy. As a large part of the fuels used in our systems usually comes from the local area, jobs are secured on a long-term basis and the regional economic power is strengthened.



## WASTE TO ENERGY

Our plants use also waste material, which must be disposed expensively otherwise. Refuse derived fuels (RDF) such as plastics, paper and cardboard, sewage sludge, composite materials, wood waste and other waste are valuable fuel for the energy-supply systems.

