

# ENERGY TECHNOLOGIES

from Upper Austria



This catalogue presents innovative energy technology companies from the region of Upper Austria. These companies cooperate in the Cleantech-Cluster, the Upper Austrian business network for energy and environmental technologies. The OÖ Energiesparverband, the regional energy agency, supports the energy technology companies in this network.

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# INTERNORM

Europe's no. 1 window brand



Energy-efficient  
buildings

Internorm is among the largest window manufacturers in Europe. As an innovation leader, Internorm has set standards in Europe: from the first UPVC and UPVC timber/aluminium windows to today's high-tech design innovations. In its 85 years of existence, the family business has manufactured over 22.5 million window and door units, all 100 % "Made in Austria". 1,300 distribution partners in 22 countries market the products.



## Main products and services

- windows (UPVC, UPVC/aluminium and timber/aluminium), entrance doors
- innovative "I-tec" technologies for smart windows, e.g. extremely stable window core, burglary protection due to integrated locking flaps and special glazing, window-integrated ventilation, blinds with automated day/night recognition as well as sun and heat protection without external power source, online control via app, increased thermal insulation

## References

- As a technology leader in the industry, Internorm pioneered the following innovations:
  - first Austrian manufacturer of UPVC windows (1963)
  - first manufacturer of window systems with 3 panes and 3 seals (1979)
  - first European lead-free PVC windows (1994)
  - first timber/aluminium window with highly-insulating thermal foam (2001)

## Current main markets

- subsidiaries in Austria, Germany, Switzerland, Italy, France, Slovenia, Czech Republic, Hungary, Croatia, Slovakia, Great Britain
- partners and clients in European countries and Russia

## We are looking for

- direct customers and sales partners
- distributors
- R&D partners

## COMPANY DATA

Number of employees: 1,800

Year of foundation: 1931

## CONTACT

### Internorm International GmbH

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# CAPATECT

## Turning hemp into thermal insulation



Energy-efficient  
buildings

Capatect is a leading company in the development, manufacturing and supply of products for facade and building insulation. Its latest development is a hemp-based thermal insulation composite system. The hemp is cultivated by 50 contracted farmers in Austria. This renewable and environment-friendly product shows excellent thermal and noise insulation properties.



### Main products and services

- thermal insulation composite systems including hemp facade insulation panels
- exterior and internal plaster
- facade renovation and restoration materials
- paints and varnishes, facade paint and concrete protection

### References

- Austria's largest private brewery: thermal renovation of the main office building with hemp facade insulation panels (1,340 m<sup>2</sup>)
- new apartment building (Italy) with 20 cm-hemp facade insulation panels (1,650 m<sup>2</sup>)
- renovation of a traditional Austrian farm building (180 years old) with 10 cm-hemp facade insulation panels (110 m<sup>2</sup>)

### Current main markets

- Austria, Croatia, Czech Republic, Hungary, Italy, Slovakia, Slovenia

### We are looking for

- direct customers and sales partners
- distributors/franchise partners
- R&D partners
- investors



### COMPANY DATA

Number of employees: 700

Year of foundation: 1872

### CONTACT

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# ETERNIT

## More than a roof



Energy-efficient  
buildings

Founded in 1894, Eternit (since 2016 part of Swisspearl Group) is the market leader in Austria for roof and facade products and a worldwide pioneer in the use of fibre cement as a construction material. Its complete solutions are characterised by resource-saving manufacture, natural materials, sustainability, and longevity. A recent product innovation is the Lumitex facade system, available for use as a backventilated curtain facade.



### Main products and services

- fibre cement roof slates, facade and balcony panels
- "all-in-one" solutions with roof and facade in the same style
- roof-integrated solar collectors and PV systems

### References

- "Austria House" for the Olympic Winter Games 2010 (Canada): passive building entirely clad with Eternit roof slates
- active solar house (Austria): single family home with Eternit roof and facade, including roof-integrated solar energy installations
- office building (Austria): monolithic building structure with large-scale fibre cement slates for facade, roof and terrace

### Current main markets

- Central and Eastern Europe, North and Latin America, Subsidiary in Germany

### We are looking for

- direct customers and sales partners
- distributors

**SWISS  
pearl®**

### COMPANY DATA

Number of employees: 469

Year of foundation: 1894

### CONTACT

#### Eternit-Werke Ludwig Hatschek AG

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# PENEDER

Fast forward to sustainable buildings



Energy-efficient  
buildings

Peneder is a family-owned company active in the sectors of business buildings, arched roofs and fire protection systems. Peneders' building design integrates architecture, production processes, logistics and energy efficiency measures. Headquartered in Upper Austria, Peneder has subsidiaries in several European countries.



## Main products and services

- general contractor for business buildings
  - life cycle analyses
  - space efficiency
  - process and energy optimisation
  - automation and logistics
  - technical building management

## References

- Peneder's headquarter (Austria): ultra-modern office building (8,800 m<sup>2</sup>) for 320 employees with 2 x 500 kW wood chip boilers for heating and cooling (absorption cooling)
- plastic production plant with 6,420 m<sup>2</sup> (Germany): novel energy and building solution, optimising energy supply of the building and the production processes, efficient production machine

## Current main markets

- Austria, Germany, Switzerland, Czech Republic, Poland, Slovakia, Hungary, Croatia

## We are looking for

- direct customers and sales partners
- distributors/franchise partners
- R&D partners
- investors



## COMPANY DATA

Number of employees: 320

Year of foundation: 1922

## CONTACT

### Peneder Holding GmbH

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# OCHSNER ENERGIE TECHNIK

## Large-scale heat pumps



Energy-efficient  
buildings

Ochsner has been a leading manufacturer of heat pumps since 1978. In 2016, the company founded a spin-off dedicated to large-scale heat pumps (100 kW – 2.5 MW) for heating, cooling and process heat. Ochsner's large-scale heat pumps include high and mid-temperature heat pumps and are manufactured in Austria. Altogether, over 130,000 Ochsner heat pumps are in use today.



### Main application fields:

- building technologies: heating and ventilation of large buildings (such as office and domestic buildings, hospitals, supermarkets etc.), sports and agricultural facilities, infrastructure (e.g. keep it free of ice)
- process technologies

### References

- university (France): water-water heat pump (heating capacity 420 kW, cooling capacity 255 kW) for cooling of computer/server rooms and offices, with heat recovery for heating in winter
- large furniture retailer (Germany): 3 x 500 kW heat pumps (heat sources: waste water, sprinkler tank, cooling system) for heating in winter and cooling in summer
- office building: 2 x 360 kW water-water heat pumps in a 13-storey office building (50,000 m<sup>2</sup> floor space), heat source: server rooms

### Current main markets

- Europe

### We are looking for

- direct customers and sales partners

**OCHSNER**  
ENERGIE TECHNIK

### COMPANY DATA

Number of Ochsner employees: 150  
Year of foundation: 2016

### CONTACT

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# GREINER PURTEC

## Energy efficiency class "A" insulations



Energy-efficient  
buildings

Greiner PURtec is specialised in the development, production and supply of thermal and acoustical insulation for heating systems, especially hot water storage systems, heating boilers as well as air-conditioning systems. Its latest development is an insulation for hot water tanks (<500 litre) that obtained an energy efficiency class A rating. Greiner PURtec has an export share of 92 %.



### Main products and services

- production and sales of:
  - insulation for hot water storage systems
  - non-flammable insulation for heating boilers
  - acoustical insulation for heat pumps and air-conditioning systems
  - combinations of thermal and noise insulating properties

### References

- biomass boilers: production of door panels ("sandwiches" of EPS and polystyrene elements), these sandwiches are accurately fitted in frames provided by the boiler manufacturer
- solar thermal systems: insulation for hot water storage tanks with high efficiency
- heat pumps: sound insulation made of recycled foam and melamin resin foam

### Current main markets

- Europe

### We are looking for

- direct customers and sales partners
- distributors/franchise partners



### COMPANY DATA

Number of employees: 205

Year of foundation: 1998

### CONTACT

#### Greiner PURtec GmbH

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# STIWA Gebäudeautomation

## Highly intelligent and efficient buildings



Energy-efficient  
buildings

STIWA Gebäudeautomation (= building automation) is an innovation leader in highly intelligent non-residential buildings. Using the STIWA Groups knowledge in construction, industrial automation and software development, they integrate building technologies and production processes. STIWA creates high efficiency buildings supplied by renewable energy at investment costs comparable to conventional buildings.



### Main products and services

- integrated planning, engineering and optimisation of building technologies (such as HVAC, electrical engineering & IT infrastructure) with energy supply of production processes
- all types of non-residential buildings (production facilities, office buildings, logistics or commercial centres, hotels and recreational centres, sports centres)

### References

- plastic production plant (Germany): novel energy system, optimising the energy supply of the building and the production processes, efficient production machine cooling with heat recovery
- machining industry (Germany): high-efficiency building and production plant with innovative building and process cooling, renewable heating and fully automatised production and intralogistics
- sports hall in passive building standard (Austria): a 2,900 m<sup>2</sup> building supplied by pellets, solar thermal and PV, similar construction costs as for a conventional sports hall, 70 % lower operation costs

### Current main markets

- Austria, Germany, Switzerland

### We are looking for

- building owners, architects
- distributors



### COMPANY DATA

Number of employees: 95

Year of foundation: 1975

### CONTACT

#### STIWA Gebäudeautomation

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Building Technologies)

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# LEDON LAMP

Quality first: LED lighting technologies



Energy-efficient  
buildings

Ledon Lamp develops, manufactures and markets a wide assortment of retrofit LED lamps and LED luminaires for private and professional applications. Products meet high efficiency, quality and environmental standards. Ledon is an Austrian-based company founded in 2009 and a former subsidiary of Zumtobel.



## Main products and services

- LED luminaires for professional applications (e.g. office buildings, hospitality sector, industrial or hall lighting)
- high-efficiency retrofit LED lamps in many variations in terms of bulb shape, wattage, socket and special features (e.g. candlelight, dimmable, brightness, light colour)
- LEDON Guard LED lamp: simulates peoples' presence in the building through automatic switch-on and switch-off (without other external controls)

## References

- office (Germany): 1,200 LED panels in the headquarter of the supermarket chain NORMA
- DIY market (Austria): Powerful and efficient LED High Bays to illuminate the sales space
- hotel (Italy): LED Lamps in 139 rooms, the restaurant and public spaces

## Current main markets

- Europe, focus on Austria, Germany and Switzerland

## We are looking for

- direct customers and sales partners
- distributors/franchise partners
- R&D partners
- investors

**LEDON**  
pioneering light

### COMPANY DATA

Number of employees: 19

Year of foundation: 2009

### CONTACT

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# PAUAT ARCHITECTS

Sustainable buildings for today and tomorrow



Energy-efficient  
buildings

Pauat Architects is an architectural company specialised in sustainable and energy-efficient buildings, founded and led by the architect Heinz-Christian Plöderl. Following his principles of environmental and social responsibility, he has created a number of landmark buildings for industry as well as residential and public buildings.



## Main products and services

- passive and low energy buildings
- new construction and renovation of homes, apartment buildings, commercial and industrial buildings, public buildings
- strategies for optimal integration of building and energy systems with high shares of renewable energy
- pilot and research projects

## References

- exhibition centre in high-efficiency standard (Austria): 160 x 90 meters exhibition area in timber construction, ventilation with heat recovery, 3,600 m<sup>2</sup> solar thermal plant
- revitalisation of a historical industrial quarter (Austria): high-efficiency reconstruction of the existing brick building (floor space 754 m<sup>2</sup>), integration of a new passive office building (floor space 2,760 m<sup>2</sup>), 70 earth probes with a heat pump, PV systems (roof and facade-integrated)

## Current main markets

- Austria

## We are looking for

- direct customers and sales partners
- distributors/franchise partners
- R&D partners
- investors

PAUAT  
ARCHITEKTEN

## COMPANY DATA

Number of employees: 6 – 8

Year of foundation: 2000

## CONTACT

### PAUAT Architekten ZT GmbH

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# CSS – COOLING SOLUTIONS & SERVICES

## Customised refrigeration and cooling systems



Energy-efficient  
buildings

Founded in 2010, CSS – Cooling Solutions & Services is a planning company for customised energy-efficient technologies for commercial and industrial refrigeration and cooling systems. The company's services include the assessment of energy efficiency potentials and energy advice on cooling systems.



### Main products and services

- planning of commercial and industrial refrigeration and cooling systems
- assessment of energy efficiency potentials and optimisation of existing cooling and refrigeration systems
- project coordination, expert assessment reports, development of specifications, tender appraisals
- energy advice on cooling systems



\* Das macht Sinnhuber.

### References

- pharmaceutical company (Greece): planning of drug cooling cells, refrigerating capacity 15 kW
- hotel (Switzerland): planning of commercial cooling, refrigerating capacity 30 kW
- hotel (Portugal): planning of commercial cooling, refrigerating capacity 15 kW

### Current main markets

- Austria, Germany, Greece and Switzerland

### We are looking for

- direct customers and sales partners
- investors
- hospitality general contractors
- pharmaceutical industry general contractors
- architects

### COMPANY DATA

Number of employees: 1

Year of foundation: 2010

### CONTACT

#### CSS – Cooling Solutions & Services

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# SCHEUCH

Technology for clean air



Biomass

Scheuch is an innovation leader in ventilation and environmental technology for industrial applications. The family-owned company provides solutions for cleaning of exhaust gases, dedusting, conveying and heat recovery. Using synergy effects from its wide-ranging know-how in many industries, Scheuch has been a partner for leading industrial companies worldwide for the last 50 years. Scheuch has two manufacturing sites and employs around 1,000 people.



## Main products and services

- design, engineering, fabrication and procurement, installation and start-up of ventilation, dedusting and gas cleaning systems. Solutions for optimised investment and minimised operation costs of:
  - fabric filters, electrostatic precipitators
  - sorption processes for the reduction of acid components and heavy metals
  - heat recovery systems and flue gas condensation systems
  - scrubbers, bio-scrubbers
  - radial fans & conveyors

## References

- biomass power plant (Chile): electrostatic precipitator for a biomass fired boiler
- steel plant dedusting (Germany): fabric filter for primary and secondary dedusting of an electric arc furnace with evaporation cooler
- MDF plant (US): purification (EAF) and final treatment using a bio-scrubber

## Current main markets

- subsidiaries in Germany, Italy, France, Sweden, Slovakia, Russia, Canada, US and Thailand
- worldwide partners and clients

## We are looking for

- customers (e.g. EPC contractors for new installations)
- end customers (with a need for retrofitting of their gas cleaning systems)
- sales partners
- R&D partners
- employees for our worldwide projects



## COMPANY DATA

Number of employees: 1,000

Year of foundation: 1963

## CONTACT

### Scheuch GmbH

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Fröling is the big name in automated biomass boilers fuelled by pellets, wood chips or log wood. The family-owned manufacturer offers high-efficiency heating systems (ranging from 7 to 1,000 kW), combined-heat-and-power (CHP) systems as well as solutions for fuel storage, tanks, heat exchangers and control systems. It exports to more than 35 countries worldwide and has large-scale manufacturing plants in Austria and Germany.



### Main products and services

- log wood boilers (15 – 60 kW), pellet boilers (7 – 1,000 kW), wood chip boilers (24 – 1,000 kW), dual firewood and pellet boilers (15 – 40 kW), commercial boilers (150 – 1,000 kW)
- combined-heat-and-power systems 50 kW<sub>el</sub>
- storage and feeding systems, control systems
- hot water tanks, solar stations, fresh water modules

### References

- family home (Italy): 32 kW S3 turbo log wood boiler with 1,000 litre buffer storage, 150 m<sup>2</sup> heated area
- apartment complex (USA): 100 kW pellet boiler
- district heating system (Germany): 760 kW Lambdamat wood chip boiler with 27,000 litre buffer storage
- IKEA logistics centre (Austria): 2 x 1,000 kW Lambdamat pellet boiler, 28,000 litre buffer storage, 76,000 m<sup>2</sup> heated area

### Current main markets

- main markets in European countries and the United States, sales partners worldwide, exporting to over 35 countries

### We are looking for

- direct customers and sales partners
- distributors



### COMPANY DATA

Number of employees: 600

Year of foundation: 1961

### CONTACT

#### Fröling Heizkessel- u. Behälterbau GmbH

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# WINDHAGER

## Tailor-made heating solutions



Biomass

Windhager manufactures automated biomass heating systems and was founded in 1921. More than 50,000 households in Europe heat with a Windhager pellet boiler. Its new generation of boilers meets ultra-low emission standards. Windhager is a family-owned company with 4 European subsidiaries and partners in 23 countries worldwide.



### Main products and services

- wood chip boilers (7 – 60 kW), pellet boilers and stoves (3 – 60 kW), log wood boilers and cooker stoves (13 – 50 kW), cascades for pellets up to 240 kW
- combined pellet and log wood boilers (4.3 – 30 kW)
- heat accumulators including fresh water solutions, hot water tanks, storage systems and control systems



### References

- family home (USA): 26 kW pellet boiler, combined with a PV and solar thermal system
- country house hotel (UK): 180 kW cascade wood pellet heating system with 3 BioWIN boilers
- commercial building (Austria): combined log wood & pellets boiler DuoWIN 25 kW with 4,500 litre buffer storage

### Current main markets

- subsidiaries in Germany, Switzerland, UK and Italy
- partners in 23 countries in Europe, North & Latin America

### We are looking for

- heating engineers and heating contractors for selling and installing boilers
- contacts to individual customers (home heating)

### COMPANY DATA

Number of employees: 500

Year of foundation: 1921

### CONTACT

#### Windhager Zentralheizung GmbH

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# ÖKOFEN

## Heating with pellets



Biomass

ÖkoFEN is specialised in pellet heating systems. Since 1997, when the first automatic pellet boiler was produced, it has grown from a pioneer to a premium world brand. Over 60,000 systems have been manufactured and installed by the family-owned company in more than 17 countries.



### Main products and services

- pellet boilers, also with condensing technology (4 – 256 kW)
- power generating pellet heating systems (CHP)
- storage solutions and energy boxes
- solar and accumulator technologies
- licensor for Easypell pellet boilers

### References

- family home (Austria): Low energy building with 260 m<sup>2</sup>, 4 kW condensing pellet boiler, pellet consumption 2 tons/year
- 19 hotels in the area of the Iguazu Falls (Argentina): ÖkoFEN pellet heating systems (in total 1.6 MW), operated by an ESCO
- manufacturer of granite monuments (USA): production heated by 2 ÖkoFEN/Easypell pellet boilers
- pilot CHP project (Belgium): 55 kW heating system, 4.5 kW electricity with pellets

### Current main markets

- subsidiaries and partners in Europe, United States, Canada, Latin America and Russia

### We are looking for

- sales partners/distributors



### COMPANY DATA

Number of employees: 370

Year of foundation: 1989

### CONTACT

#### ÖkoFEN Pelletsheizung

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(Managing Director)

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# GUNTAMATIC



Biomass

## Biomass boilers - innovation and cost effectiveness

Guntamatic is a family-owned manufacturer of pellet, woodchip and logwood boilers. It has produced over 200,000 biomass boilers in more than 50 years. Built entirely with own capital, Guntamatic has a 25,000 m<sup>2</sup> manufacturing plant in Austria with an annual production capacity of 12,000 boilers. Guntamatic exports 80 % to 21 European countries.



### Main products and services

- pellet boilers (3 kW – 1 MW), wood chip boilers (20 kW – 1 MW), log wood boilers (14 – 50 kW), energy grain/miscanthus boilers (30 – 100 kW)
- hybrid pellet-heat pumps (2.5 – 16 kW)
- buffer cylinders

### References

- family home (Austria): 7 kW wall-mounted pellet boiler combined with solar thermal system
- farm building and micro-grid for 12 homes (Austria): 2 x 100 kW woodchip boilers, 200 m pipeline length, combined with a solar drying facility for wood chips
- family home (France): 15 kW pellet system with silo replacing an old gas boiler, payback time 3 years due to high-efficiency and less fuel consumption
- guesthouse with 19 beds (Czech Republic) with a pellet boiler

### Current main markets

- 21 European countries

### We are looking for

- sales partners
- distributors

# GUNTAMATIC

#### COMPANY DATA

Number of employees: 250

Year of foundation: 1963

#### CONTACT

##### GUNTAMATIC Heiztechnik

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# ETA HEATING SYSTEMS

Biomass heating - more than a boiler



Biomass

ETA manufactures pellet, woodchip and logwood boilers with a focus on high efficiency and user convenience. ETA is among the leading biomass boiler producers with an annual production capacity of 20,000 boilers and a global export rate of 80 %. ETA's headquarters reflect the company's sustainability philosophy, e.g. with more than 360 kWp PV plant that supplies the production plant's entire electricity demand.



## Main products and services

- pellet boilers (7 – 500 kW), log wood boilers (20 – 60 kW), wood chip boilers (20 – 500 kW), dual pellet and logwood boilers (20/26 kW)
- buffer storage systems, fresh water modules
- fuel storage and transport systems, control systems



## References

- family home (New Zealand): 30 kW logwood boiler with 2 x 1,100 l buffer storage
- hospital (Japan): 50 kW woodchip boiler
- primary school (Germany): 2 x 90 kW pellet boilers, with 3 x 1,100 l buffer storage
- gardening business (Austria): 30 kW + 26 kW combined pellet and logwood boiler with 2,000 l buffer storage

## Current main markets

- Europe, Japan, New Zealand

## We are looking for

- distributors/franchise partners

### COMPANY DATA

Number of employees: 240

Year of foundation: 1998

### CONTACT

#### ETA Heiztechnik

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# HARGASSNER

Pioneer in automated wood chip systems



Biomass

Hargassner is a pioneer of automated wood chip heating systems. Since its foundation in 1984, the product range has been enlarged with pellet and log wood boilers (3 – 2,000 kW), that meet high emissions and efficiency standards. The family-owned company sells over 8,000 boilers per year. In total, more than 90,000 are currently in operation. Hargassner exports to 25 countries worldwide.



## Main products and services

- wood chip boilers (20 – 330 kW), log wood boilers (20 – 60 kW), pellet boilers (3 – 330 kW)
- wood chip transportation and storage systems, control systems, energy containers
- biomass CHP-units (60 kW<sub>th</sub>/20 kW<sub>e</sub>)

## References

- family home (Germany): Hargassner log wood boiler (0.5 metre logs) with automatic ignition and fully-automatic boiler cleaning system
- sports facility in Tokyo (Japan): 100 kW wood chip boiler, combined with a solar drying facility
- high school (Canada): wood chip boilers for space heating and hot water
- district heating (Austria): 2 x 200 kW wood chip boiler
- industrial plant with offices, exhibition and production halls (Austria): 200 kW wood chip boiler with a 6,000 litre buffer storage

## Current main markets

- partners and clients in 25 countries (European countries, Canada, New Zealand, Japan)

## We are looking for

- direct customers and sales partners
- distributors/franchise partners
- R&D partners
- investors



## COMPANY DATA

Number of employees: 220

Year of foundation: 1984

## CONTACT

### HARGASSNER GmbH

Florian Haslinger  
(Export Manager)

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W: [www.hargassner.at](http://www.hargassner.at)

# TROPPER

Specialist in pellet trucks and equipment



Biomass

Tropper is a leading manufacturer of customised silo superstructures for trucks, on-board-weighing systems and innovative discharge systems for wood pellets and other bulk goods. Founded in 1938 as a mill construction business, the family-owned company later became a specialist for mobile grinding and mixing plants. Today, customised Tropper trucks are in use all over Europe and worldwide.



## Main products and services

- production of fixed and flexible silo superstructures and trailers for pellet trucks
- on-board-weighing systems for silo superstructures
- aluminium silos for bulk goods
- discharging devices and systems for pellets and wood chips

## References

- 15 tons pellet truck using feed hoppers with Tropper aeration beds, developed for a pellet boiler company (USA)
- pellets truck with silo superstructure: tractive unit's Starts from 2 axel trucks 8 m<sup>3</sup> to 4 axel trucks up to 33 m<sup>3</sup>, semi-trailers with 40 m<sup>3</sup> and trailers with 22 m<sup>3</sup> calibrated on-board weighing system, changing systems; at customers request, construction of silos for blowing and sucking

## Current main markets

- main markets in 23 European countries, partners and clients in the United Arab Emirates, Chile, Uruguay, Lebanon, Russia and the United States

## We are looking for

- direct customers and sales partners



### COMPANY DATA

Number of employees: 110

Year of foundation: 1938

### CONTACT

#### Tropper Maschinen und Anlagen

Benedikt Tropper  
(Sales Manager)

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# ING. AIGNER

Leading in biomass heat contracting



Biomass

Ing. Aigner is a family-owned company with 105 employees active in planning and installing heating systems (HVACR) as well as water and environmental technologies from household to industrial scales. Founded in 1947 and strongly focusing on renewable energy, the company has made its name in biomass heat contracting (public buildings, hotels, industry) and biomass district heating.



## Main products and services

- biomass heating contracting: Ing. Aigner plans, finances, installs and operates biomass plants at the premises of the client. Main advantages: renewable energy supply without own investment and risk of the client at a guaranteed price
- consulting, design and quality management of biomass heat plants and district heating systems
- R&D cooperating with universities and ministries, EU-funded projects

## References

- university campus (Canada): wood chip boiler plant
- biomass district heating (Slovakia): 8 MW boiler fuelled by wood chips, bark, saw mill residues
- holiday resort (Austria): biomass heat contracting for 75 apartments in 46 buildings, 1,600 MWh/a supplied by a 390 kW wood chip boiler
- industrial plant (Austria): biomass heat contracting for process heat and space heating, hot water (2 x 1.5 MW, 8,000 MWh/a)

## Current main markets

- main market: Austria
- projects in Germany, Czech, Republic, Slovakia, Hungary, Slovenia, Romania, Ukraine, Canada, Japan

## We are looking for

- direct customers
- partners/projects (to provide know-how and support)



## COMPANY DATA

Number of employees: 105

Year of foundation: 1947

## CONTACT

**Ing. Aigner**

**Wasser – Wärme – Umwelt GmbH**

Siegfried Aigner (Managing Director)

Kremstalstraße 18,

A-4501 Neuhofen an der Krems, Austria

E: office@ing-aigner.at

W: www.ing-aigner.at

Gilles is an Austrian manufacturer of biomass heating systems. Its product range includes pellet and wood chip heating systems, industrial biomass boilers, touch screen control systems as well as storage and transportation systems for biomass. The heating systems are characterised by their special robustness. Gilles exports 65 % of its products.



### Main products and services

- pellet boilers for domestic and small business applications (12.5 – 160 kW)
- wood chip boilers for domestic and small business applications (30 – 160 kW)
- industrial boilers for biomass fuels (180 up to 1,400 kW underfeed firing or moving step grate firing technology)
- touch screen control systems, heating containers
- storage and transportation systems for biomass

### References

- college (UK): 240 kW industrial wood chip boiler
- health center (NL): 300 + 300 kW industrial pellet boilers
- apartment building (Germany): 160 + 49 kW pellet boilers cascade
- supermarket (Spain): 360 + 450 kW industrial wood chip boilers
- district heating for public buildings (France): 85 + 160 kW wood chip boilers
- golf congress center (Sweden): 450 kW industrial pellet boiler

### Current main markets

- Europe

### We are looking for

- direct customers and sales partners
- distributors



### COMPANY DATA

Number of employees: 65

Year of foundation: 1992

### CONTACT

#### GILLES Energie- und Umwelttechnik GmbH & Co KG

Christian Siessl  
(Head of Sales International)

Koaserbauerstr. 16, A-4810 Gmunden, Austria

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W: [www.gilles.at](http://www.gilles.at)

# LANDRITHERM

## Biomass forced-air heating systems



Biomass

LandriTherm is a family-owned manufacturer of pellet, wood chip and logwood forced-air heating and drying systems. The systems can be used to heat industry and exhibition halls, plant nurseries and stables, or to dry construction sites and agricultural products. The transportable systems offer a reliable and environmental-friendly alternative to oil and gas hot air heating systems.



### Main products and services

- pellet, wood chips or log wood forced-air heating and drying systems
- fields of application
  - heating of industry and exhibition halls, plant nurseries, stables, construction sites, events/tents
  - drying of agricultural products, e.g. hops, hay, corn

### References

- World Economic Forum Davos (Switzerland): use of forced-air heating systems to supply event locations
- Ski Flying World Championship Kulm (Austria): heating of large tents using biomass forced-air heating systems (50 kW)
- organic chicken farm (Austria): heating of two stables with 9,600 animals by wood chips

### Current main markets

- Europe, Canada, USA

### We are looking for

- direct customers and sales partners
- distributors/franchise partners
- R&D partners
- investors



### COMPANY DATA

Number of employees: 51

Year of foundation: 1987

### CONTACT

#### LandriTherm

Johannes Landrichinger  
(Managing Director)

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W: [www.warmluft-heizung.com](http://www.warmluft-heizung.com)

# FRONIUS

## Solar solutions that last



Solar &  
energy storage

Fronius is a leader of innovation in welding, solar energy and battery charging technologies. As a family-owned company, Fronius has been active in the field of photovoltaics since 1992. According to the motto "24 hours of sun", Fronius technologies contribute towards a future in which all energy will come from renewable energy sources.



### Main products and services

- production and sales of grid-connected inverters for PV systems and battery charging systems
- Fronius Energy Package: system solutions for energy management and storage
- Fronius Solar Web: portal for configuring, monitoring, analysing and visualising PV systems
- PV-Genset Solution: supports the combination of diesel generators and PV systems in off-grid areas

### References

- municipal solar power project (Brazil): 250 kW on 70 residential buildings
- brewery (Colorado, USA): 25 kW PV roof-mounted system
- german school (Chile): 55 kWp, largest PV system in southern Chile
- technology museum (Mexico City): 109 kWp, designed to appeal to children and young people

### Current main markets

- over 24 international subsidiaries and sales partners/representatives in more than 60 countries

### We are looking for

- direct customers
- sales partners/distributors
- integrators and utilities



### COMPANY DATA

Number of employees: 3,723

Year of foundation: 1945

### CONTACT

#### Fronius International GmbH

Markus Rieder  
(Sales Manager Solar Energy)

Froniusplatz 1, A-4600 Wels, Austria

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W: [www.fronius.com](http://www.fronius.com)

# SOLARFOCUS

Innovative solar thermal & biomass heating



Solar &  
energy storage

Solarfocus develops and manufactures biomass boilers, solar thermal systems and air-source heat pumps. Founded in 1993, the family-owned company offers renewable energy systems under the motto "everything from a single supplier". Manufactured in a modern 30,000 m<sup>2</sup> plant, the products are sold throughout Europe with a 70 % export share.



## Main products and services

- pellet boilers (10 – 70 kW, cascade up to 420 kW), log wood boilers (18 – 60 kW), combined pellet and log wood boilers (22 – 60 kW), woodchip boilers (30 – 60 kW)
- solar thermal collectors and CPC collectors
- air-source heat pumps
- hot water cylinders and (stratified) buffer tanks, fresh water modules
- storage and control systems

## References

- family home (Austria): 15 kW pellet boiler, suction system, buffer storage with fresh water module, 8 m<sup>2</sup> solar thermal system
- Braziers Park (UK): 2 x 60 kW wood chip boilers with 3,000 l buffer storage heating 3 community and school buildings
- hotel (Austria): 2 x 70 kW pellet boilers and 34 m<sup>2</sup> solar thermal system supply wellness hotel (heating, hot water, indoor pool)

## Current main markets

- Europe, subsidiary in Germany

## We are looking for

- direct customers and sales partners
- distributors



### COMPANY DATA

Number of employees: 200

Year of foundation: 1993

### CONTACT

#### Solarfocus GmbH

Johann Kalkgruber  
(Managing Director)

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W: www.solarfocus.at

# ECOTHERM

Turnkey hot water, steam and solar systems



Solar &  
energy storage

Ecotherm is one of the worldwide leading brands for individual hot water, steam and solar systems. The plants are mainly used in hotels, hospitals and industry. Each unit is specifically designed for the customer's individual requirements. Headquartered in Upper Austria, Ecotherm is the technology and innovation leader in its field in the Middle East.



## Main products and services

- turnkey hot water, steam and solar systems
- production of stainless steel products for hot water and steam systems and standard storage tanks up to 30,000 litres
- consulting, planning, engineering, supervision and specialised training services

## References

- Abraj Al Bait Towers and Royal Clock Tower, Mecca: 63 x stainless steel electric water heaters with a total output of 3,900 kW and 66,150 litres of hot water
- Sheikh Jaber Al-Ahmad Al-Jaber Al-Sabah Hospital, Kuwait: turnkey steam, hot water & drinking water system

## Current main markets

- locations in Dubai, Kuwait, Mexico, Hungary, India and partners in more than 20 countries

## We are looking for

- sales partners
- interested hotel & hospitality planners
- contractors and clients in the hotel/hospitality and industry sector



### COMPANY DATA

Number of employees: 38  
(Headquater Austria)  
Year of foundation:  
1980 (renamed Ecotherm in 1996)

### CONTACT

#### ECOTHERM Austria

Herbert B. Bremstaller (CEO)

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E: herbert@ecotherm.com  
W: www.ecotherm.com

# GASOKOL

Pioneer in solar thermal technologies



Solar &  
energy storage

Gasokol is a family-owned manufacturer of solar thermal energy systems for domestic and industrial use. With three decades of experience, the company offers manifold solar solutions and has an export share of over 80 %. Its manufacturing plant has a capacity of 200,000 m<sup>2</sup> collector area per year. Latest flagship projects focus on fully solar-heated industrial and municipal buildings.



## Main products and services

- solar thermal systems for space heating, hot water, swimming pools, thermal concrete core activation, industrial process heat
- solar thermal systems for domestic, public, commercial, industrial applications and district heating, suitable to be mounted on pitched or flat roofs, facades or framemounted for open land use
- OEM manufacturer of solar collectors and storage systems, hybrid collectors
- mounting services

## References

- Europe's largest 100 % solar thermal heated industrial plant (Austria): 1,410 m<sup>2</sup> solar collectors for space and process heat (thermal concrete core activation)
- 100 % solar heated soccer club house (Austria): 50 m<sup>2</sup> solar collectors, thermal concrete and a 30,5 kWp PV system, covering the annual energy demand for hot water and heating of 25,000 kWh.
- solar-assisted biomass district heating system with 300 m<sup>2</sup> solar thermal collectors (Austria)
- ecological model village (Poland)
- 10 Gasokol thermosiphon collectors (Brazil)

## Current main markets

- 20 European countries, United Arab Emirates

## We are looking for

- sales partners
- distributors
- large-scale solar projects
- OEM customers
- R&D partners



### COMPANY DATA

Number of employees: 35

Year of foundation: 1981

### CONTACT

#### GASOKOL GmbH

Ronald Gattringer  
(Managing Director)

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# ERTEX SOLAR

Energy meets architecture



Solar &  
energy storage

ertex solar manufactures custom-made PV-modules in laminated safety glass. The PV façade modules can be produced in a wide range of sizes, shapes and colours for a variety of applications (e.g. glass roofs, insulated/ventilated façades, terraces, sound protection, mobile solutions). 100 – 150 projects are realised each year (export share 70 %).



## Main products and services

- PV for architectural building integration, solar façades and roofs
- individual custom-made PV-modules in a variety of shapes, colours and sizes, sound protection modules, screen printing
- different types of PV-modules, e.g. laminated safety glass modules for overhead glazing, in-roof glazing, insulated glass sheet modules
- XL PV façade modules (up to 2,440 x 5,100 mm per module)
- professional consulting, planning and support

## References

- Kimbel Art Museum Texas (architect Renzo Piano): shading elements, 120 kWp PV
- Sheikh Zayed Desert Learning Center (UAE): PV roof, 143 kWp
- TV Tower Khartoum (Sudan): PV façade, 104 kWp
- Vienna Zoo: glass roof with PV elements for the giraffe habitat
- Expo 2017 (Kazakhstan): PV glass roof, 40 kW
- railway station Utrecht (NL), 144 kW

## Current main markets

- sales partners in Europe, North America, Africa, Australia & Arab Emirates
- references in Europe, North America and Africa

## We are looking for

- architects and engineers
- façade and glass companies
- direct customers and investors
- real estate companies
- municipalities

**ertex**  
solar  
Energy Meets Architecture

## COMPANY DATA

Number of employees: 25  
Year of foundation: 2004

## CONTACT

### ertex solar GmbH

Dieter Moor  
(Managing Director Marketing & Sales)

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W: [www.ertex-solar.at](http://www.ertex-solar.at)

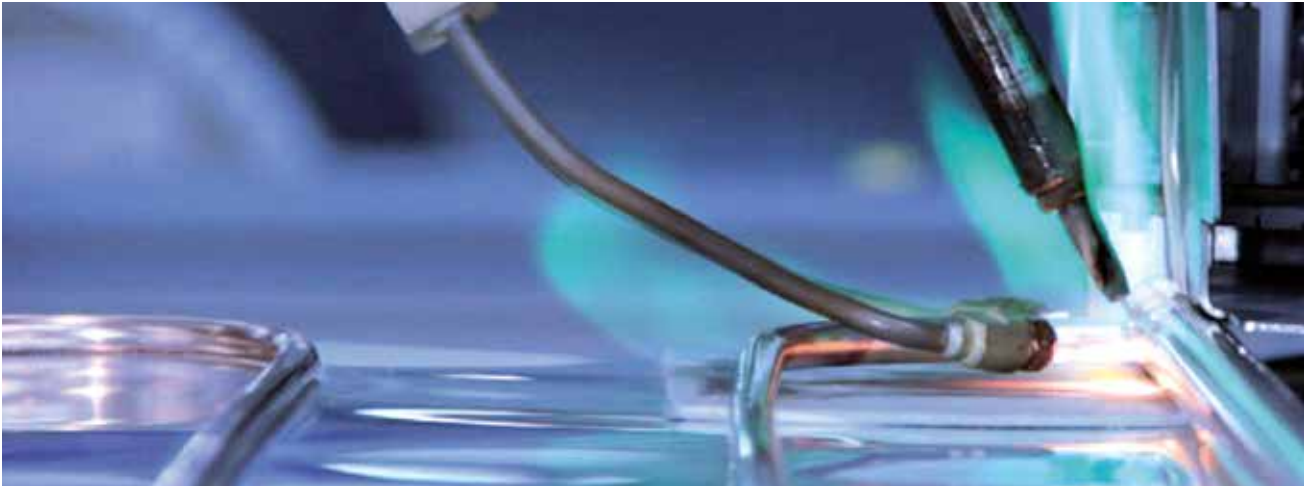
# DTEC

## Automation technology for solar thermal and PV solutions



Solar & energy storage

DTEC is an internationally active full service supplier and offers high quality solutions for automation and engineering. Solar thermal and PV are among the industries served by DTEC. The company's roots are in the car manufacturing supply industry. DTEC has an export share of 98 %.



### Main products and services

- DTEC's service portfolio includes:
  - project management, engineering, documentation; production, complete assembly services, linking and start-up services; installation, training, optimization, certification; maintenance, test and service centre
- our areas of expertise:
  - pipe processing (punching, bending, forming, etc.); soldering & brazing technology; welding technology MIG/MAG/WIG/CMT and laser welding; adhesive and foam applications; robotics and special solutions; handling, press and tolerance compensating systems; modular production lines; linking assets; quality testing (leak proofing, etc.); visualisation and data capture; maintenance, test and service center



### References

- PV: Kioto Clear Energy, EMMVEE Solar Systems, DAS Energy, Diamond Aircraft
- solar thermal: Ariston Thermo Group, Gasokol, Viessmann, Vaillant, Greenonetec, SOALRCAP, Jain Irrigation Systems, Tisun, Ensol, TVP Solar

### Current main markets

- Europe, Turkey, USA, Asia, United States, Saudi Arabia, Bhutan

### We are looking for

- direct customers and sales partners
- distributors/franchise partners
- R&D partners
- investors

### COMPANY DATA

Number of employees: 18  
Year of foundation: 2007

### CONTACT

#### DTEC GmbH

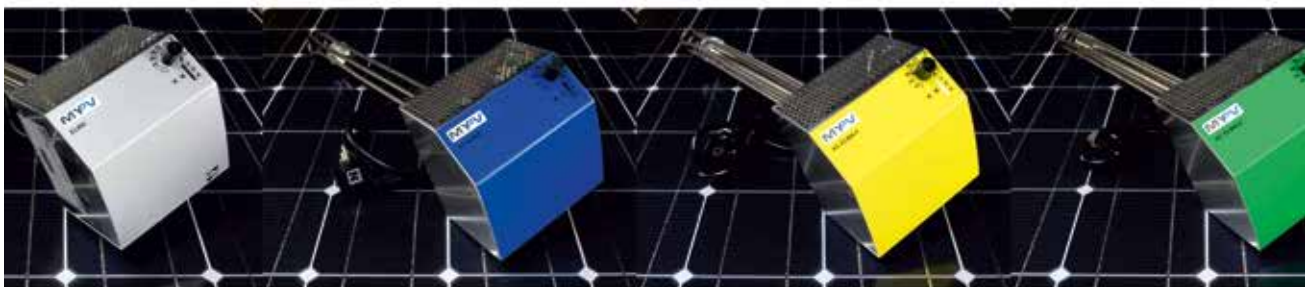
Michael Dietl  
(Managing Director)

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W: [www.dtec.at](http://www.dtec.at)



my-PV is a specialist for hot water from photovoltaic power. Since its establishment 2011, my-PV has focused on innovations in the field of storage technology. Their ELWA-system uses surplus PV-power to heat up water and use it as a storage medium for solar power.

## Hot Water from Photovoltaics



## Powerful Hot Water Storage

### Main products and services

- development and production of "PV-Hot-Water-Units":
  - ELWA: off-grid hot water without storage battery
  - AC ELWA: hot water as PV excess energy storage
  - AC ELWA-E: hybrid storage: battery and hot water
  - AC ELWA-F: hot water storage for AC coupled off-grid systems

### References

- apartment building (Austria): 24 apartments, 24 x 1.5 kWp individual PV-systems, 24 ELWAs (decentral), 24 hot water systems (storage: 140 litres)
- mountain shelter (Germany and Austria) with AC ELWA-F
- Single family home (Austria): hybrid storage (AC ELWA-E and battery storage), 10 kWp PV-plant

### Current main markets

- sales partners in Europe, Asia, Australia, Russia and South Africa

### We are looking for

- sales partners
- distributors



### COMPANY DATA

Number of employees: 7

Year of foundation: 2011

### CONTACT

#### my-PV GmbH

Dr. Gerhard Rimpler  
(Managing Director)

Teichstraße 43, A-4523 Neuzeug/Sierning, Austria

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W: www.my-pv.com

# CONA

## Solar drying systems



Solar &  
energy storage

Cona develops, manufactures and installs solar drying systems. The solar air technology developed by Cona is used on four continents for drying more than 170 different products, e.g. fruits, medicinal herbs, grain, cocoa, coffee, hay or wood chips. Cona is committed to sustainability which combines environmental, economic and social benefits.



### Main products and services

- individual planning of drying plants (agricultural, semi-industrial)
- production and installation of solar air systems and drying plants

### References

- Austria & Germany: more than 100 wood chip drying installations (the largest with 580 m<sup>2</sup>)
- Japan: 48 m<sup>2</sup> solar air collectors in Hiroshima, drying capacity approx. 800 – 1,000 m<sup>3</sup> wood chips
- El Salvador: 40 m<sup>2</sup> solar air collectors for drying fruits, herbs, vegetables, etc.
- Uzbekistan: 850 m<sup>2</sup> air collectors & energy storage for drying organic fruits
- Cuba: 60 m<sup>2</sup> solar air collectors for drying moringa and medical herbs

### Current main markets

- Europe, Latin America, Africa

### We are looking for

- sales partners
- financing partners
- direct customers



### COMPANY DATA

Number of employees: 8

Year of foundation: 1987

### CONTACT

**CONA Entwicklungs- und Handelsgesellschaft mbH**

Dr. Georg Hubmer

Voitsdorf 55, A-4551 Ried im Traunkreis, Austria

E: [solar@cona.at](mailto:solar@cona.at)

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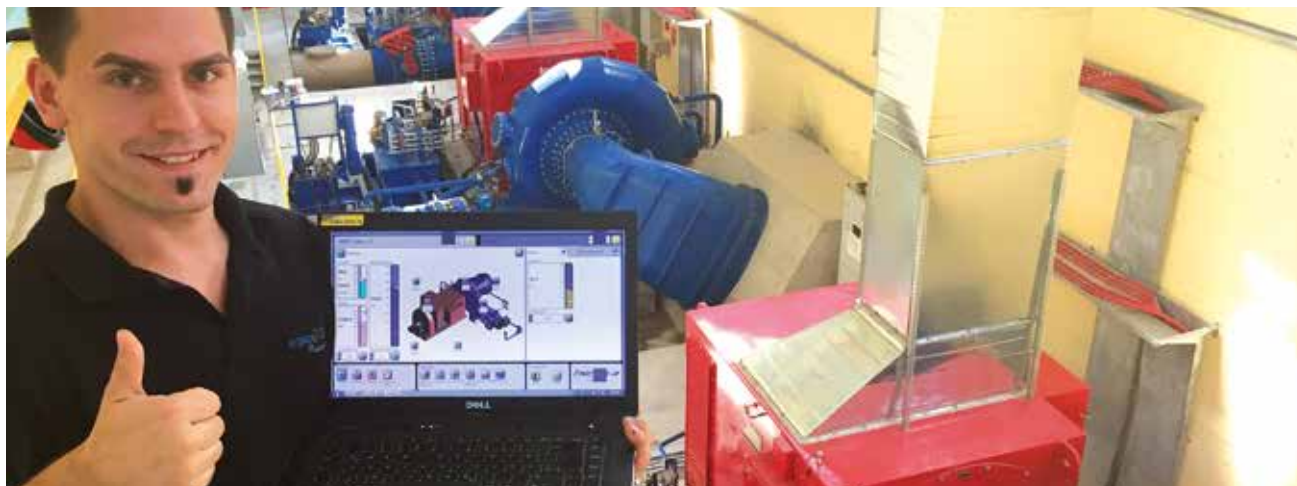
# GLOBAL Hydro

## Small hydropower plants



Small hydro &  
wind

GLOBAL Hydro operates globally as a turnkey supplier of hydropower technologies with a core competence in small hydropower plants up to 20 MW per unit. It manufactures Francis, Kaplan and Pelton turbines in Austria in their own manufacturing facility. Since 100 years hydropower plants are produced at the location at Niederranna. Today GLOBAL Hydro provides "water to wire" solutions worldwide.



### Main products and services

- turnkey supplier of small hydropower plants (planning, production and commissioning)
- production and sales of Francis, Kaplan and Pelton turbines
- automatisisation of small hydropower plants
- revitalisation, service and maintenance of hydropower plants



### References

- over 400 power plants with Francis, Kaplan or Pelton turbines in more than 30 countries

### Current main markets

- sales areas for Europe, South Asia, South East Asia, Central Asia, Western Asia, Northern America and Latin America

### We are looking for

- direct customers
- sales representatives

#### COMPANY DATA

Number of employees: 140

Year of foundation: 2002

#### CONTACT

##### GLOBAL Hydro Energy GmbH

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(Head of Sales)

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W: [www.global-hydro.eu/](http://www.global-hydro.eu/)

# WWS WASSERKRAFT

Hydropower specialist for individual solutions



Small hydro & wind

WWS is a turnkey supplier of hydro power plants up to 6 MW with longstanding experience. The company manufactures long-life and high-efficiency Francis, Kaplan and Pelton turbines for installations worldwide. WWS offers a wide range of services encompassing new plants and the revitalisation of existing plants. WWS has more than 120 reference projects in 20 countries.



## Main products and services

- new hydro power plants, revitalisation and upgrading of hydro power plants
- manufacturing of hydraulic turbines (Francis, Kaplan, Pelton) and related electro-mechanical equipment
- steel hydraulic engineering
- service & maintenance of small hydro turbines

## References

- renovation of an existing hydro power plant (Philippines): new Francis spiral-turbine, power output 477 kW, net head 96 m
- new power plant (Turkey): 2 turbines with a power output of 997 kW, net head 115 m
- new power plant (Ukraine): Kaplan turbine and generator, power output 198 kW, net head 2.4 m
- new power plant (Armenia): Pelton turbine and generator, power output 3,270 kW, net head 153 m

## Current main markets

- Europe, Asia, North & South America

## We are looking for

- direct customers and sales partners
- investors, consultants and project developers
- agents and distributors
- R&D partners



## COMPANY DATA

Number of employees: 50

Year of foundation: 2008

## CONTACT

### WWS Wasserkraft

Günther Scharrer  
(Sales Manager)

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W: [www.wws-wasserkraft.at](http://www.wws-wasserkraft.at)

# EWS CONSULTING

## Efficient wind power solutions



Small hydro &  
wind

EWS has delivered the know-how for more than half of the wind turbines installed in Austria and has developed wind energy projects all across Europe. Its team provides a complete package of services in developing, installing and operating wind energy plants. With the motto "We think in generations", EWS Consulting combines sophisticated technology with the responsibility for a sustainable future.



Source: EWS Consulting

### Main products and services

- measurement, evaluation, planning, electrical and power systems engineering, construction and repowering of wind farms, technical operation management
- due diligence technical evaluations, feasibility studies, environmental impact studies
- community-owned wind farms
- international Development Assistance



### References

- LiDAR/SODAR wind measurements for large scale projects: technology supports the selection of the site and project appropriate technology
- Lender's Engineering Service: comprehensive technical due diligence services for banks/lenders

### Current main markets

- Projects and clients in EU and Balcan countries

### We are looking for

- direct customers
- R&D partners/investors

### COMPANY DATA

Number of employees: 41

Year of foundation: 1994

### CONTACT

#### Energiewerkstatt Consulting GmbH

Wolfgang Neuhofer  
(Head of Department for  
Measurements and Evalution)

Katztal 37, A-5222 Munderfing, Austria  
E: [office@ews-consulting.at](mailto:office@ews-consulting.at)  
W: [www.ews-consulting.com](http://www.ews-consulting.com)



For more than 45 years, KEBA has developed and manufactured innovative automation solutions for a variety of industries. KEBA works in the three business divisions: industrial automation, banking and service automation and energy automation. KEBA's headquarters are in Linz and it operates worldwide with an export share of 80 %.



### Main products and services

- Electronics and solutions for
  - power charging stations for e-mobility
  - heating control systems for biomass heating and heat pumps
  - industrial automation (plastic injection molding, roboting/handling, packaging)
  - banking automation
  - logistics and postal lockers
  - lottery terminals



### References

- production and sales of more than 25,000 charging stations for electric cars
- control systems for pellet heating systems of an Austrian manufacturer
- on-site station for just-in-time supply of electric material on large construction sites

### Current main markets

- subsidiaries in Germany, The Netherlands, Romania, Czech Republic, Italy, Turkey, China, Taiwan, Japan, Korea, United States
- partners and clients worldwide

### We are looking for

- direct customers and sales partners
- distributors/franchise partners
- R&D partners

### COMPANY DATA

Number of employees: 992  
Year of foundation: 1968

### CONTACT

#### KEBA AG

Claudia Sakuler  
(Marketing & Communications)

Reindlstraße 51, A-4041 Linz, Austria  
E: keba@keba.com  
W: www.keba.com

# ASKI

More than 10,000 implemented projects



Energy management & e-mobility

ASKI develops advanced energy monitoring, operation and system technologies for companies, buildings, and plants. ASKI's solutions ensure a synergetic interaction of energy flows, including energy procurement, generation, e-mobility charging infrastructure, storage and consumption. The systems optimise operations through adaptive measuring, control, and networking strategies, thus ensuring effectivity, efficiency, safety and economic viability of the energy supply.



## Main products and services

- software for visualisation and monitoring with comprehensive functions for analysing, documenting, reporting, billing and evaluating data
- dynamic peak load optimisation with proactive load management
- optimisation of self-consumption of PV installations
- optimised integration of charging infrastructure for e-mobility in businesses and buildings



## References

- More than 10,000 implemented projects
  - in more than 2,000 hotels, food service and tourism businesses
  - in numerous retail chains with up to 800 sites
  - in industry with hundreds of measuring and counting points on different sites
  - in retirement homes, hospitals, administration buildings and commercial businesses

## Current main markets

- Austria, Germany, Switzerland and Italy

## We are looking for

- direct customers and sales partners
- distributors/franchise partners
- investors

## COMPANY DATA

Number of employees: 9

Year of foundation: 1990

## CONTACT

**ASKI Industrie Elektronik GmbH**

Franz Stabauer  
(Managing Director)

Irrseeblick 47, A-4893 Zell am Moos, Austria

E: office@aski.at

W: www.aski.at

# UNIVERSITY OF APPLIED SCIENCES UPPER AUSTRIA – CAMPUS HAGENBERG

## Master's Degree Programme "Energy Informatics"



Research &  
education

The University of Applied Sciences in Hagenberg is often called "Austria's Silicon Valley" due to its unique combination of IT-related education, research and business in one location. Research activities focus on software technology & applications, media & knowledge technologies and information & communication systems. The Master's degree programme "Energy Informatics" focuses on IT solutions for smart grids, smart city infrastructures and energy supply systems.



### Main products and services

- ICT related research & development
- School of Informatics, Communications and Media with 19 degree programmes in the fields of informatics, Communication and Media
- international Master's degree programme "Energy Informatics" (in English)
- incubator of start-ups



### References

- founded in 1989, the campus hosts 75 companies with 2,650 employees, 16 start-ups and 11 research institutes today
- 1,540 students and 4,880 alumni
- top marks in international university rankings

### Current main markets

- Partner universities in Europe, Asia, Australia & New Zealand, Latin America, United States

### We are looking for

- R&D partners
- motivated and talented students

### COMPANY DATA

Number of employees: 170

Year of foundation: 1993

### CONTACT

**University of Applied Sciences  
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# UNIVERSITY OF APPLIED SCIENCES UPPER AUSTRIA – CAMPUS WELS

Focus energy & environment



Research &  
education

The University of Applied Sciences in Wels is specialised in renewable energy and environmental sciences. The campus has 2,000 students in 25 degree programmes, among them the Master's degree programme "Sustainable Energy Systems" in English. The campus offers more than 60 modern laboratories and hands-on research in cooperation with business and international partner universities.



## Main products and services

- Bachelor's degree programme Eco-Energy Engineering, Master's degree programme Eco-Energy Engineering (double degree in cooperation with INSA Strasbourg), Master's degree programme Sustainable Energy Systems and 21 more degree programmes
- research and development in the fields of renewable energy and environmental sciences

## References

- among Austria's pioneers in applied university teaching and research (first degree programme 1993)
- campus with 9 buildings and over 60 modern laboratories
- 2,000 students and 4,713 alumni

## Current main markets

- Partner universities in Europe, Africa, Asia, Australia, Canada, Latin America, New Zealand, Russia, United States

## We are looking for

- international students
- students exchanges (incoming/outgoing)
- partner universities
- R&D partners



## COMPANY DATA

Number of employees: 200

Year of foundation: 1993

## CONTACT

### University of Applied Sciences Upper Austria – Wels

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# BIOENERGY2020+

Leading biomass research



Research &  
education

Bioenergy2020+ is among the world's leading research institutes in biomass to energy and biomass to goods conversion. It specialises in small and mid-scale biomass combustion, gasification, bioconversion and biogas systems. In cooperation with industry, Bioenergy 2020+ conducts industry-driven R&D for combustion, gasification, algae biorefineries, pre-treatment and upgrading, automation and control of thermal processes and microgrids, and CFD simulation.



## Main products and services

- cooperative research, contract research, technology monitoring and optimisation
- advanced characterisation methods for biomass fuels, ashes and emissions including off-gassing
- consulting and targeted training on innovative biomass technologies
- syngas platform (FT-demo plant, mixed alcohol, water-gas shift)
- CFD support for technology development

## References

- numerous successful product developments of small scale biomass combustion, CHP and hybrid systems
- advanced testing methods for better real life performance of biomass room heating appliances (FP7 project)
- biofuel research infrastructure for characterization of non-standard biomass and residues (FP7 project)
- several international studies on bioenergy technologies and bioenergy policies
- reactor optimization by membrane enhanced operation (H2020 project)

## Current main markets

- partners and clients in European countries and the United States

## We are looking for

- R&D partners

bioenergy2020+

### COMPANY DATA

Number of employees: 87

Year of foundation: 2003

### CONTACT

#### BIOENERGY2020+ GmbH

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# INSTITUTE OF POLYMERIC MATERIALS AND TESTING - JKU LINZ

## Polymeric materials for sustainable development



Research & education

The Institute of Polymeric Materials and Testing (IPMT) focuses on the contribution of polymeric materials and polymer technologies to sustainable development, especially energy and material efficiency. These includes, for examples, solutions related to water supply, renewable energy technologies (solar, wind, water), light-weight electric vehicles and biogenic plastics based on renewable resources.



### Main products and services

- Bachelor's degree programme Polymeric Engineering and Technologies, Master's degree programmes in Management in Polymer Technology (in English) and in Polymer Technologies and Science (in English)
- initiating and coordinating large multi-partner cooperative research programmes



### References

- research initiative SolPol (polymer innovation for solar technologies) with 19 international companies partners and 10 research partner
- participation in IEA Task 54 price reduction of thermal systems

### Current main markets

- students and research partners from all over the world

### We are looking for

- R&D partners

### COMPANY DATA

Number of employees: 28

Year of foundation: 2009

### CONTACT

**Johannes Kepler University Linz**  
**Institute of Polymeric Materials and Testing**

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# ASIC ENERGY RESEARCH GROUP

Renewable energy research and training



Research &  
education

The energy research group ASiC at the University of Applied Sciences Upper Austria is an institute dedicated to research in renewable energy, with a focus on PV, solar thermal and thermal and electric energy storage. ASiC is active in R&D, the provision of measuring services as well as teaching activities. Founded in 2000, the ASiC was integrated into the University of Applied Science in 2016.



## Main products and services

- development, measurement, analysis, monitoring and optimisation of solar systems
- R&D projects on thermal and electrical systems, control systems
- development of energy storages systems, especially systems based on sorption technology and phase change materials
- development of sensors for new thermal storage technologies
- consulting, lectures, training, supervision of diploma theses



RESEARCH &  
DEVELOPMENT

## References

- development of energy management systems for energy applications
- development of thermal sorption storage systems for heating and cooling purposes and for the transportation sector
- participation in several tasks of the IEA

## Current main markets

- Europe

## We are looking for

- R&D partners

## COMPANY DATA

Number of employees: 15

Year of foundation: 2000

## CONTACT

### Fachhochschule OÖ / ASiC Energy Research Group

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# INSTITUTE OF ENVIRONMENTAL MANAGEMENT FOR ENTERPRISES AND REGIONS - JKU LINZ

Innovative in sustainability



Research &  
education

The Institute of Environmental Management for Enterprises and Regions is active in education and research. It has 20 years of experience in environmental issues in the business sector, the public sector and in societal changes (e.g. industrial processes, mobility, innovations).



## Main products and services

- programmes "Environmental and Business Quality Management" and "Systemic Environment and Resource Management"
- research on the identification and assessment of significant environmental issues of companies and networks in a strategic and operative context (from material and energy consumption to recycling and secondary use of energy)

## References

- examples of research topics:
  - increasing material efficiency by environmental management accounting tools
  - progress in energy efficiency policies
  - Local Agenda 21 processes in small municipalities
  - mobility management in companies
  - identification of "Hot Spots" for Upper Austria's environmental policy programme up to 2030

## Current main markets

- students and R&D projects from across Europe

## We are looking for

- R&D partners

### COMPANY DATA

Number of employees: 6

Year of foundation: 1990

### CONTACT

**Johannes Kepler University Linz**  
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