



II Jornada Hispano-Aleman sobre Geotermia somera

Cámara de Comercio Alemana para España
Madrid 2016-07-05



HAI-Technology im
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HAI Technology at High Tech City Bremerhaven



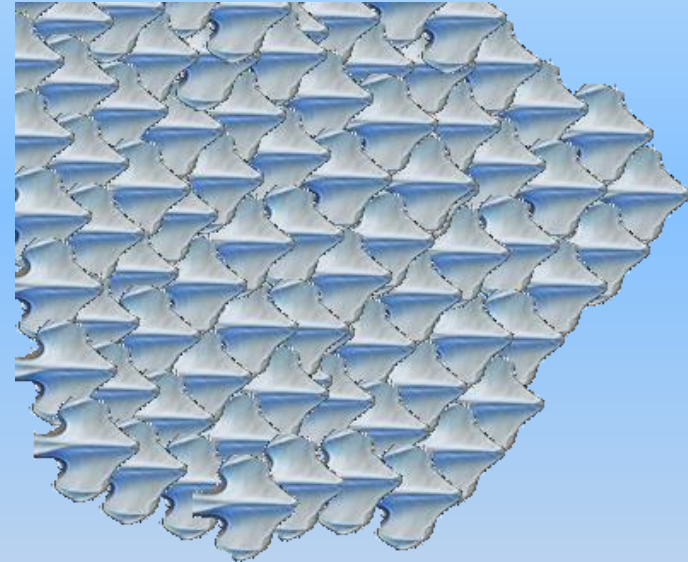
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HAI: Tiburón



Successful since 400 million years

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HAI Technology

- Ratiofaktor of the
- European Mediators' and
Consultants' Institut EMB GmbH
- close to sciences
- focusing know-how
- up to marketability

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Mediationbased Round Tables

MRT since 2007

- participation of all stakeholders
- going deeply into all areas
- out of the box thinking
- „Mittelstand“
- finding solutions for sustainability and
- innovation

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HAI Technology Portfolio

Technologies

- ▶ Passive and Energy+ House Technology
- ▶ Geothermal Climatisation
- ▶ Solar Heat
- ▶ Photovoltaics
- ▶ Biomass boilers, cogeneration and fuels
- ▶ Wind
- ▶ Biogas

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HAI Technology Portfolio Areas

- Energy Efficiency
- RenewableEnergy
- Waste
- Biogas
- Waste Water
- Desalination

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Geothermal Energy

- Surface near applications for buildings:
- Thermoactive ceiling
- Activated elements
- Simple AC
- Deep Geothermal Energy:
- Electricity plants
- District heatings


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Geothermal Energy

- Surface near Geothermal Energy and Deep Geothermal Energy:
 - Geophysical studies
 - Feasibility Studies
 - Engineering
 - Coordination of Providers and Services
- 

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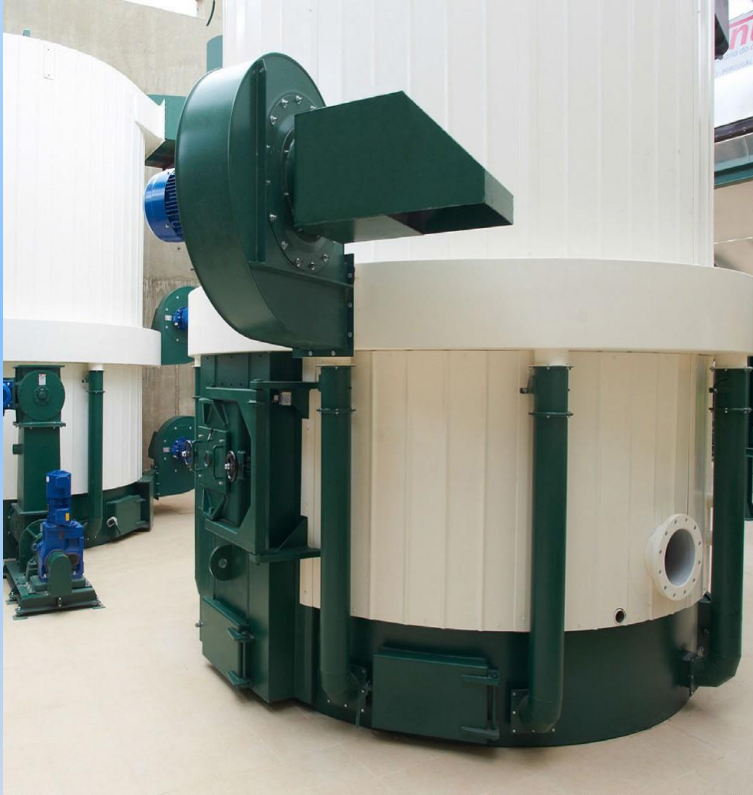
Geothermal Energy

- Foundation piles and plane elements such as slurry walls, sheet piles, steel pilings with fixed PE-tubes or steel tubes as heat exchangers.
- Installation Depth: Depending on construction
- Performance: Guide values piles: 40-80 W/m, guide values planar elements: 30-80 W/m² (power of up to 100 and 300 W/m² are documented).

Geothermal Energy

- Usage: Heating and cooling in residential, office and industrial buildings.
- Plus: No additional constructions/drillings are necessary. Heat exchanger are part of construction.
- Drawbacks: energy gain is limited by number and depth /are of available construction parts.

Biomass Boilers



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Biomass Boilers



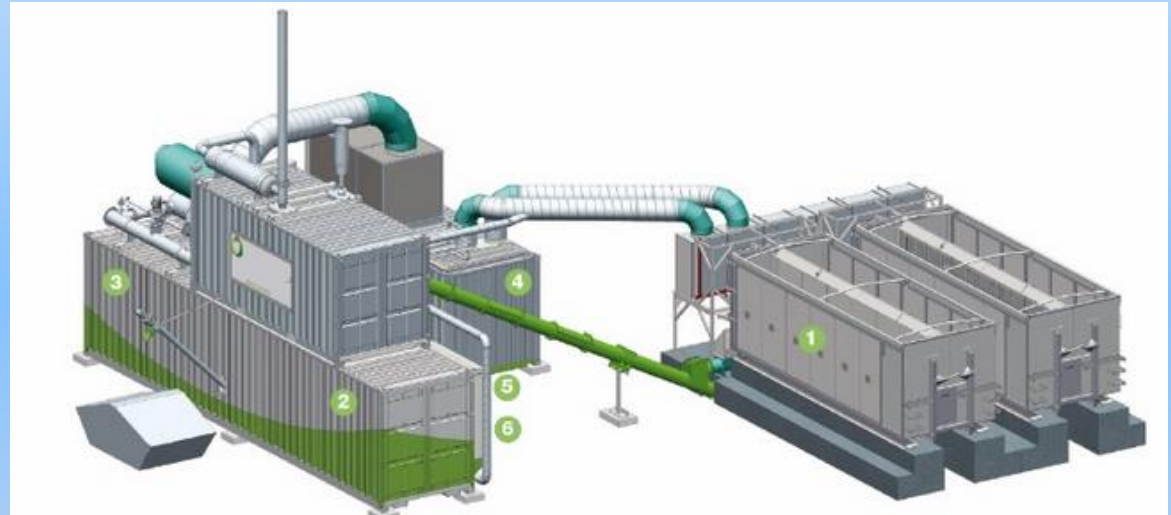
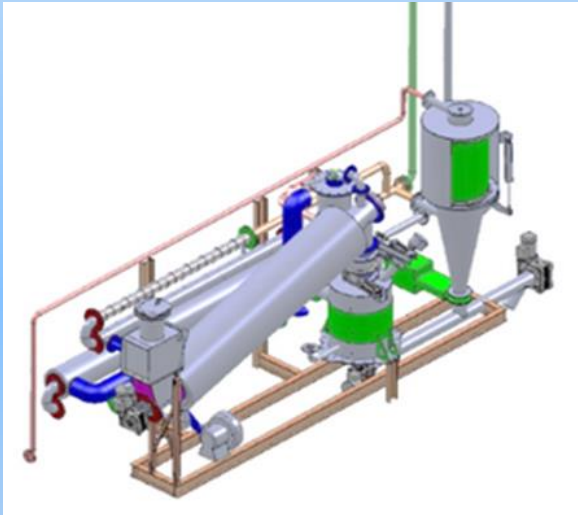
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Woodfired cogeneration



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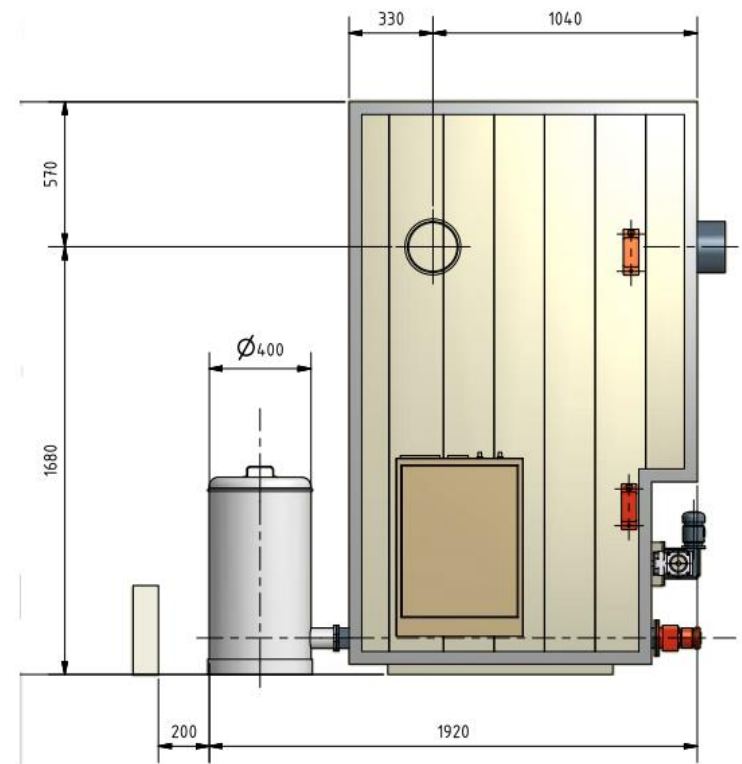
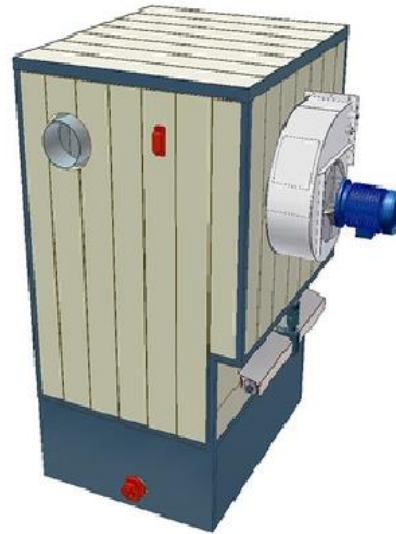
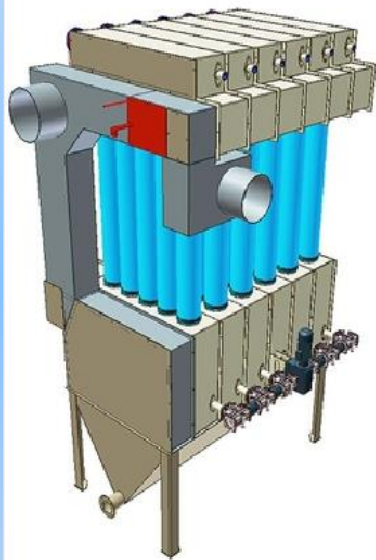
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Plant Output

- biomass boilers: 10kW to >10 MW, scalable
- wood-fired cogeneration from
- 30kWe, 70kWth, scalable
- 140kWe, 240kWth, scalable to >10 MW
- confirming to standards

Electrofilter

Aussenmasse mm: 2250 H, 1920 B, 950 L



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Biological Waste to Biogas

- Analysis and Pre-Design
- Feasibility Study
- Engineering and Supervision
- Cogeneration, Heat, District Heating
- Biomethane as gas and fuel

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Customer and Solution oriented

- We look for the customer's needs
- Include all stakeholders
- Find tailor-made solutions
- We are not bound to any technology or producer
- We work in Europe and overseas



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Customers and Partners wanted

- Project developers
- Facility managers
- Regional and local administrations
- Industries and Shopping Malls
- Consulting engineers
- Architects



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Ask us!

- Our network is intersectoral
- Many experienced partners
- We work in Europe and overseas
- Innovation is our profession
- We will find solutions, because...



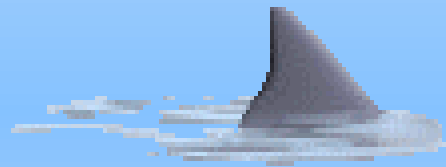
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... a shark...



...is always in motion.

Muchas gracias!



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