



JERNFORSEN'S ENERGY SYSTEMS

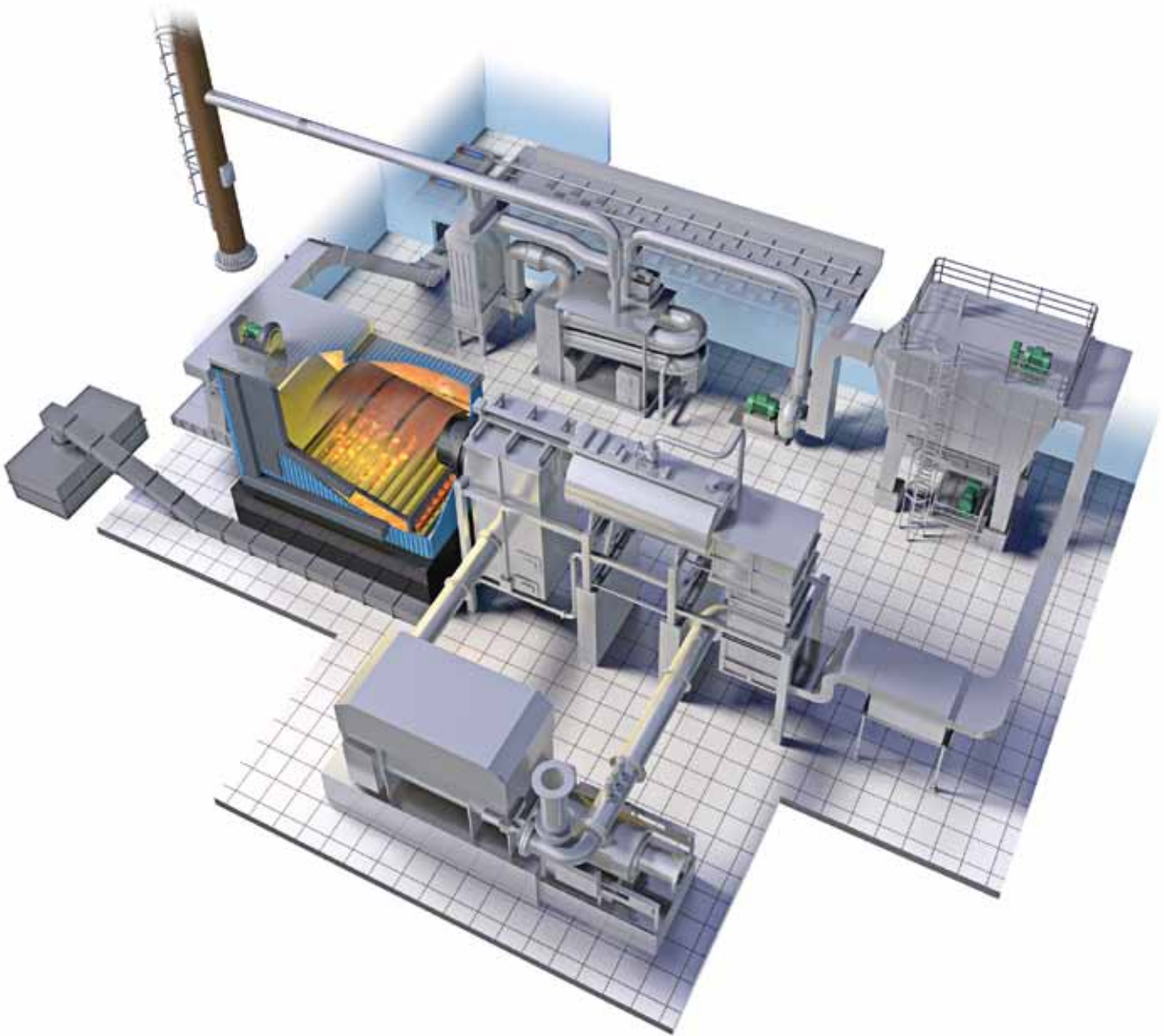
The energy systems can be divided into three categories CHP, district heating and industrial plants.

We have through our extensive experience developed systems to optimize the solutions to meet your needs and requirements, anything ranging from fuel qualities to the operation-specific data required in your particular system.

Regardless of what energy system you need, the plant is built around the combustion equipment.

At the core of the combustion is our moving grate system. The grates are controlled by a forward movement, which moves the fuel forward gradually as it burns.

At the end of the process there is a final combustion of the ash prior to being transported to the ash container. In connection with the grate movement we also add air, primary and secondary, so as to optimize the combustion before it goes into the pressure vessel. The hot gas is now ready to be transformed into the energy that best fits your process - Which depends on what process you have.



CHP

Our combustion system is optimized for a CHP plant. A high pressure boiler is attached to our furnace and can, depending on the steam need, produce steam up to 25 tonnes / h and 480 °C in one or two stages.

The boiler design is our own and it is optimized to meet the technical data in balance with the investment cost.

The high pressure steam is led to the turbine, which can be a one or two stage turbine, depending on your needs. The system is optimized depending on the choice of back pressure or condensation design.

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