
DANPOWER
ENERGY FOR TOMORROW

FOR THE SAKE OF THE ENVIRONMENT

Danpower, one of the leading energy contractors in Germany, is committed to sustainable and future-oriented energy generation.

The Danpower Group of companies is represented with more than 20 companies throughout Germany and also in the Baltic states. We depend on state-of-the-art and resource-conserving technologies for efficient and environmentally friendly heat generation. Our CO_2-neutral generation processes use renewable fuels such as biogas, wood pellets and wood chips as well as residual waste substances.

We develop tailor-made energy concepts for our customers, based on our many years of experience, spanning all processes from the planning stage of technical equipment to operational management steps on through to recording consumption data and billing. Today we have a nationwide network of locations in place to be able to support our customers in the best possible way.

COMMITMENT TO ENVIRONMENTAL PROTECTION

We take our social responsibility for environmental protection seriously. So, we found a way to use municipal and residual waste for energy production. Our biogas plants even use manure and certain additives to generate biogas, which can then be transformed into electricity and heat.

Biomass cogeneration plant Elsterwerda – district heating station control cabinet

ENVIRONMENTALLY FRIENDLY HEAT GENERATION

Our energy mix is based on using renewable energies. We use biogas plants, biomass heating plants and combined heat and power plants, thermal residual waste treatment plants, and conventional heating plants, as well as cogeneration plants to generate approximately 1,700 GWh heat and 640 GWh of electricity annually.

Our biogas plants use predominantly biomass from whole plants, grass and corn silage as well as from grain. The raw materials are sourced mostly from the local farmers. Production residues are then returned to the farmers for organic fertilization of their fields, which creates the perfect energy cycle. We use 1.42 million tons of raw materials annually in our biomass and biogas plants. We supply heat, cooling, and electric power for more than 250,000 homes, public institutions and commercial customers in more than 150 municipalities.

Furthermore, we continuously invest in the expansion and modernization of our plants, to stay true to our high quality standards and ensure efficient and safe operating processes.

1 Biomass cogeneration plant
Elsterwerda – fuel input

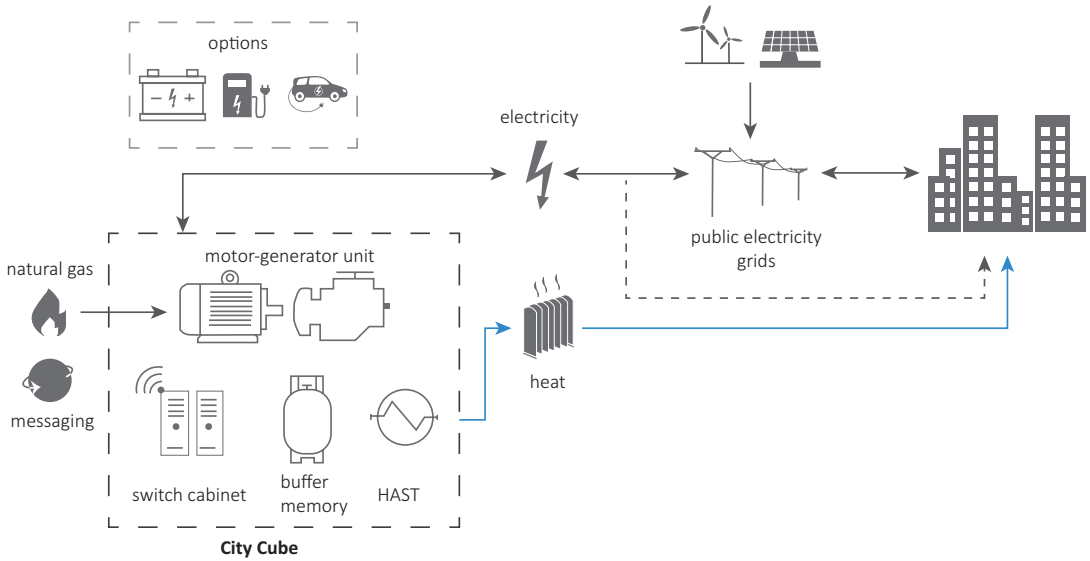
2 Biomass cogeneration plant
Elsterwerda – boiler house

A WELL-PLANNED PERFORMANCE

As the established heat contractor, we take care of and operate the heat generation units, at our own expense, directly at the customer’s site. We are able to produce the highest levels of efficiency by using state-of-the-art heating technology.

The benefits of using our contracting service are obvious: Our customers can reap the benefits and efficiency of state-of-the-art systems without having to concern themselves with their financing, construction, commissioning and maintenance. At the same time, high levels of reliability for supply and planning can be ensured while realizing great CO_2-savings. For your convenience contracting agreements are entered over extended periods of usually 10 years or more. Danpower works with PME Projektmanagement und Engineering GmbH, also a part of the Danpower Group, for their professional project management. All work is consolidated with one group of experts, from profitability analysis to concept development, including construction supervision and project management and control.

We make an effort to stay current with technological developments and trends and integrate them into our range of services. For example: our innovative City Cube facilitates the linking of electricity, heat and e-mobility sectors. Fluctuating power generation with renewable energies as well as the increasing demand on electricity grids created by e-mobility are only some of the greater challenges facing energy supply companies today. The proper charging stations for e-cars usually connect to the low-voltage grid and recharge electric cars with up to 22 kW. Quick charging stations even output a capacity of up to 200 kW. They can put significant extra loads on the grids. Since the expansion of power grids can be very time consuming and cost-intensive, energy production directly at the consumer’s location is a great alternative.



“CITY CUBE“ – AN INTELLIGENT SOLUTION

The combined heating and power unit (CHP) in the City Cube, which works on the principle of combined heat and power generation, makes a decisive contribution to environmental protection based on sustainable and resource efficient ways of handling the primary source of energy. The decentralized power generation unit is a standard build with a number of optional add-ons.

A CHP unit generates enough power to charge one or more electric vehicles. Should no power be distributed at the charging station on any day, the electricity can be fed into the public power grid as needed or stored in a battery storage unit. Intelligent control software has been developed to calculate the most cost-effective combination of generation, storage and consumption. City Cube’s flexibility provides relief for the local networks.

Digitalization of the City Cube makes an optimized operating schedule possible and provides constant control to the system. The compact design of the City Cube facilitates a wide range of applications. For instance, it can be used to supplement existing power generation plants, or as an independent unit inside a building (hotel, commercial building, etc.), or also outside in a customized, self-contained space, specially adapted to the local conditions.

CHARGING STATIONS – FOR THE SAKE OF THE ENVIRONMENT

Danpower produces electricity from renewable energy sources to preserve natural resources and thus to protect the environment. Our green electricity charging stations are our contribution to creating a basis of sustainability and supporting electrical mobility.

Our charging stations are installed at a number of selected stations and are supplying e-cars with exclusively green electricity. Electric car owners have been able to reload their cars there with green electricity any time (24/7) since August of 2017. We create the foundation for a sustainable transition to electric mobility by using electricity from renewable energy.

WOOD PELLETS – THE ECOLOGICAL ENERGY BUNDLES

Whether for the private customer or the large industrial consumer: We develop customized heat supply solutions based on wood pellets for consumers of any size. We use EN-plus certified pellets from our own production for this purpose. The quality of our pellets makes a harmonic combustion processes possible. Deposits are at a minimum and heating materials can be protected. The amount of CO_2 released by wood during the combustion process cannot exceed the amount the tree has absorbed in its growing stage.

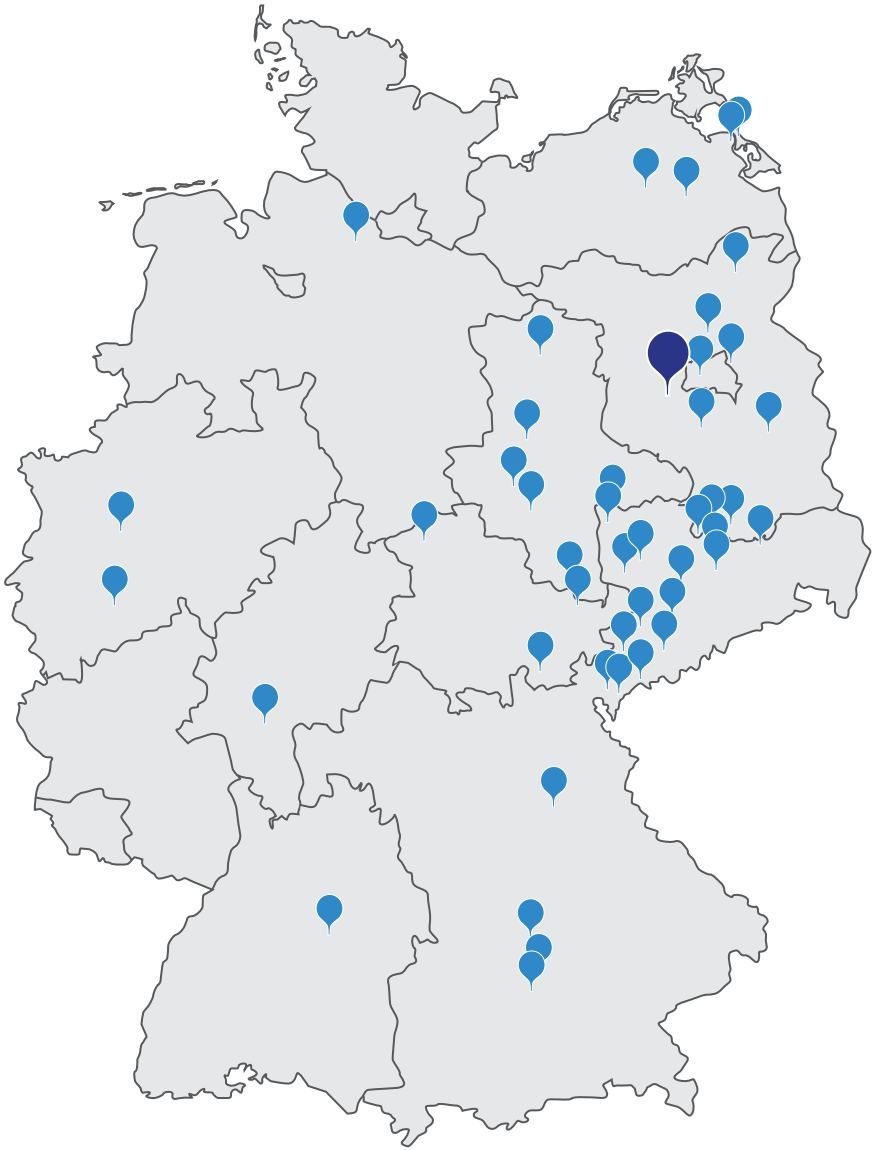
Therefore, is heat generation with wood pellets not only ecologically and climate neutral, it is also cheaper than generating heat from fossil fuels.

RELIABLE IN YOUR OWN NEIGHBORHOOD

We guarantee an extremely low primary energy factor and demand and the lowest possible technical input needed from the building owner. We supply our customers not only with their heat requirements, but as their Contractor we also offer the complete full-service package for the power generation units and on-site heating systems.

Thanks to our extensive network of partners we are always close by. If our framework contract is for the operations management, we take care of all plant servicing tasks including maintenance, inspection, repair, optimization, as well as standby services and troubleshooting. We can gladly manage the meter readings of consumption data and the billing of energy supply for our customers as well. As an all-round service provider, we create more than 5,000 heating cost billing statements annually and manage accounts for approximately 6,600 consumption points. Our customers include builders as well as real-estate companies and operators of public facilities. In addition, we also provide process heat for large production halls.

Each of our major customers has a dedicated contact person who is familiar with all the details of his project, because close customer contact is important to us and a significant component of our corporate philosophy.



Location
Look us up!

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