



WATER BOILER PLANT

SUWAŁKI, POLAND 2020

BRANCH OF INDUSTRY:
SYSTEMS FOR MUNICIPAL HEAT PLANTS



30 MW | THERMAL POWER

PURPOSE

To supply heat to heating networks in Suwałki for not less than 8000 hours per year.

EQUIPMENT



FUEL SUPPLY SYSTEM – on-ground storage with a mobile floor.



ADDITIONAL EQUIPMENT FOR THE GENERATION OF HEAT – flue gas condensing economiser.



FUEL COMBUSTION SYSTEM – "PKS" furnace with water heating boiler.



FLUE GAS TREATMENT – multicyclones with electrostatic precipitators.



Fuel supply systems



Biomass furnace PKS-15



Water heating boiler



Vertical flue gas condensing economizer (DKE)

ADVANTAGES



LOW EMISSION LEVEL

The on-ground biomass storage with a mobile floor ensures low level of dustiness on the boiler facility site.



BOILER SAFETY

The boiler safety system provides automatic protection against overheating, high pressure and other factors likely to damage the equipment.



AUTOMATIC CONTROL

The automatic control system ensures stable operation of the boiler facility in all operating modes.



ADDITIONAL HEAT GENERATION

The flue gas condensing economiser takes over additional heat from the flue gas in order to use it to preheat the water returning from the network.



BOILER POWER

The process ensures maximum efficiency of the heat generation system.



ASH REMOVAL SYSTEM

The wet ash removal system minimises the environment pollution risk.

KEY TECHNICAL DATA

Total thermal power	30 MW
Fuel type: sawdust, woodchips	woodchips – up to 100 %, sawdust – up to 30 %
Fuel moisture	35-60 %
Boiler power	2 x 12,5 MW
Flue gas condensing economiser power	5 MW

PRINCIPLE OF OPERATION



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