ICK GROUP
BIO-MASS ENERGETICS

ENERGY INDEPENDENT SUPPLY

SOCIAL AND PRODUCTION INFRASTRUCTURE

Responsibility

Optimal solutions

High-quality equipment

Warranty obligations

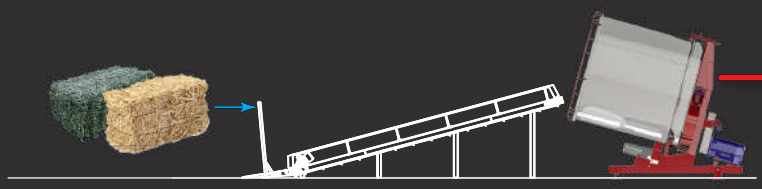
After-sales service

Grantech™

• INDEPENDENCE • EFFICIENCY • ECO-FRIENDLINESS

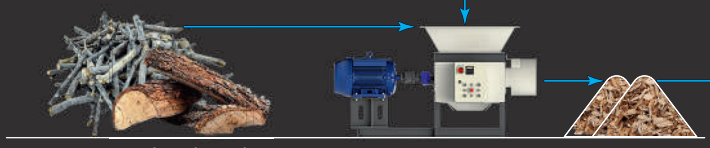
PRODUCTION OF HEAT AND ELECTRICITY

1. Agricultural and wood waste crushing section

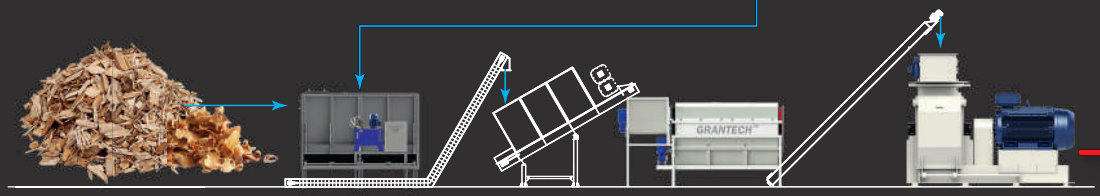


Bales of straw, miscanthuscy — Straw chopper

Furniture, pallets, trunks — Shreder

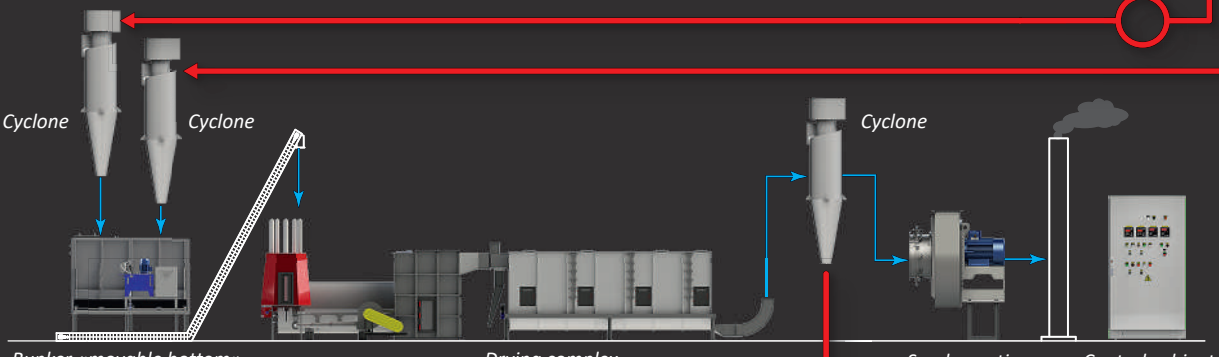


Trimmings, sawdust, branches — Chopping machine — Wood chips



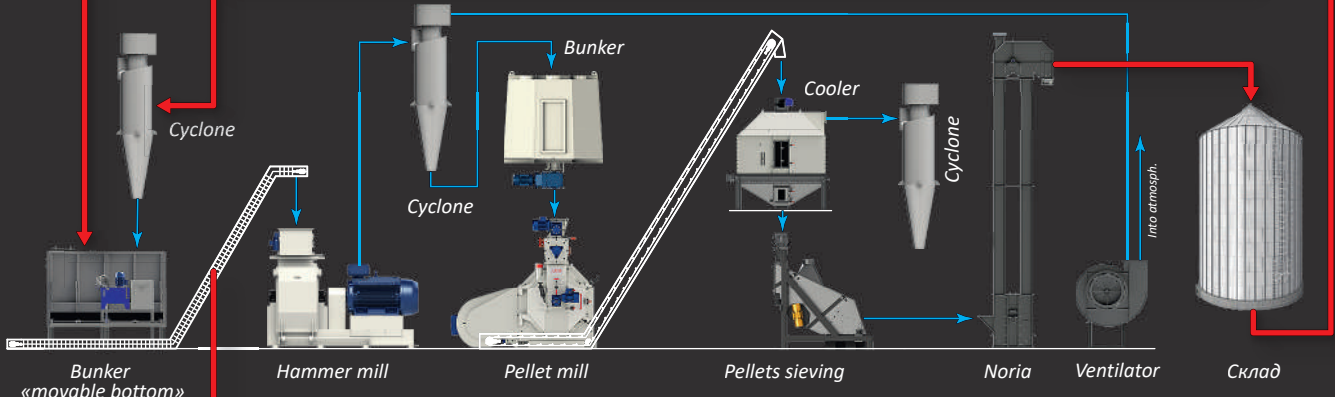
Wood chips, shavings, sawdust — Bunker «movable bottom» — Separation complex — Hammer mill

2. Drying section

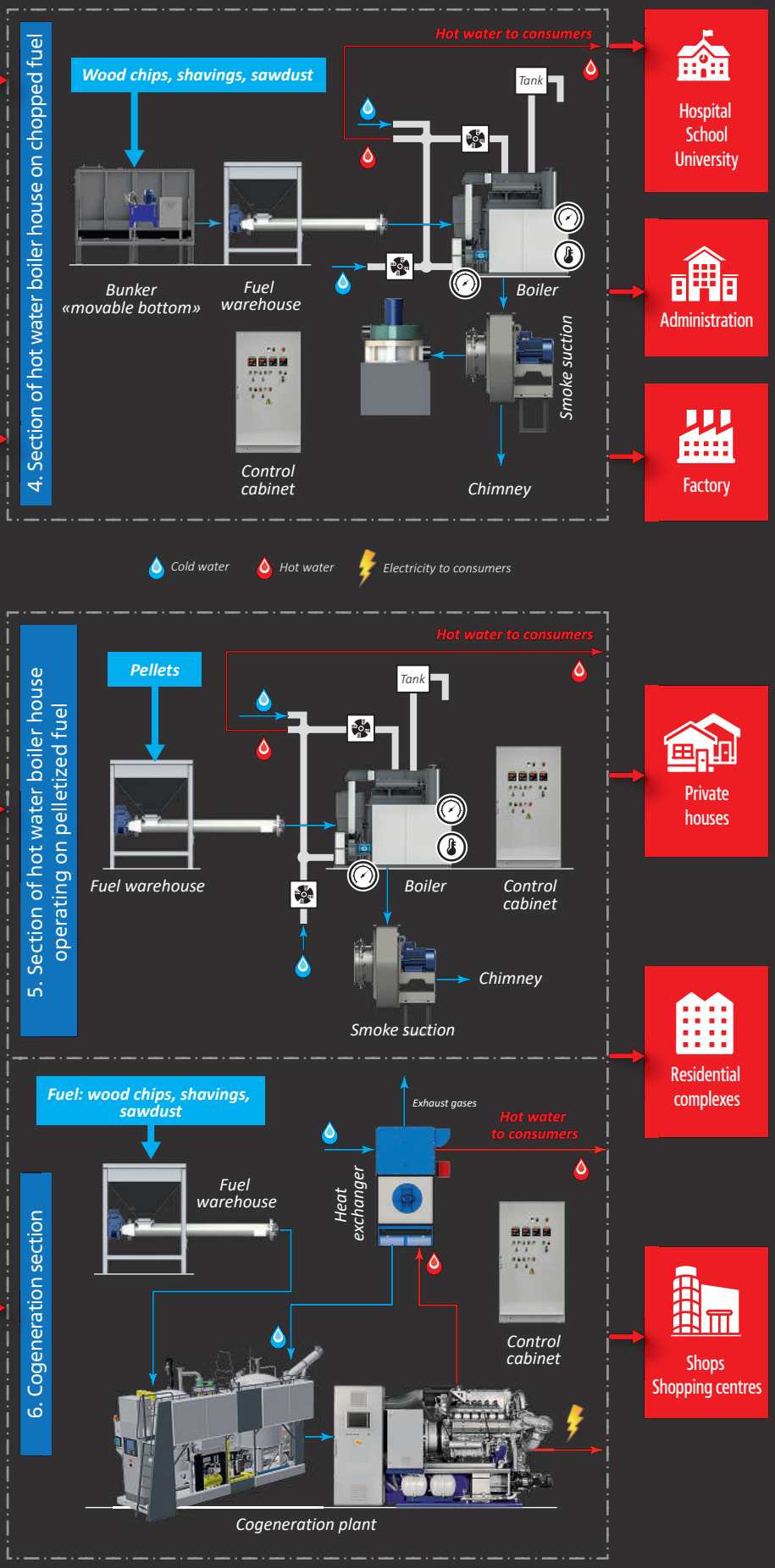


Bunker «movable bottom» — Drying complex — Smoke suction — Control cabinet

3. Pelletizing section



Bunker «movable bottom» — Hammer mill — Pellet mill — Pellets sieving — Noria — Ventilator — Склад



1 **The agricultural and wood waste crushing section** is designed for chopping all types of straw, miscanthus, corn stalks packed in cylindrical or rectangular bales with a diameter of no more than 1.8 m and a length of up to 1.2 m, as well as for crushing dry/wet wood waste (lumpy wood waste, sawdust, slats, trimmings, etc.).

2 **The drying section** is designed for drying wood waste (sawdust, chips, etc.) and agricultural waste (grain straw, miscanthus, rape straw, etc.) with an input fraction of up to 4 mm for sawdust and chips and 35 mm for chopped straw. Relative moisture content at the inlet — 40 %, at the outlet — 10–12 %.

3 **The pelletizing section** is designed for pelletizing wood waste (sawdust, wood chips, etc.) and plant waste with a relative humidity of 10–12 % at the inlet, preliminarily crushed on sieves to 3–4 mm.

4 **Section of hot water boiler house operating on chopped fuel** is designed to convert the chemical energy of solid fuels (wood chips, sawdust, shavings, lumpy waste, pallets) into thermal energy of the coolant (water, etc.) and to produce hot water, which is used in closed heating and hot water supply systems for industrial and domestic buildings, as well as for technological needs.

5 **Section of hot water boiler house operating on pelletized fuel** is designed to convert the chemical energy of solid fuels (pellets) into thermal energy of the coolant (water, etc.) and to produce hot water, which is used in closed heating and hot water supply systems for industrial and domestic buildings, as well as for technological needs.

6 **Cogeneration section** is designed for combined heat and power generation. The fuel for the cogeneration units is pre-treated biomass from waste of the woodworking industry, forestry, and agricultural production.

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DECISIONS ON REGIONAL ENERGY SOURCES

REALIZED PROJECTS