

# RESEARCH AND IMPLEMENTATION OF TECHNOLOGIES AND EQUIPMENTS FOR ACHIEVING FUEL PRODUCTS LIKE PELLETS

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**Key words:** pellets, waists, capitalizing, technologies, equipments

This paper contains some aspects regarding the reduction of the negative impact generated by the economically activity over the environment by implementing technologies and equipments for achieving fuel products of high performance, as pellets, with the goal of the ecological capitalization of waists with energetic potential.

The pellets are produced by pressing sawdust resulted at the saw mill, from wood hash of the trees put down by the wind and generally from waists resulted after wood processing.

The pellet production, usual doesn't require additive and binders due to the resins naturally existing in the raw materials.

Technological flow for the pellet production consists in: mincing and storing the wet sawdust; drying and storing the dried sawdust; pressing the sawdust to achieve the pellet; weighting and packing pellets. Schematic the technological flow comprises the following main equipments: Mill with hammers; Pneumatic conveyor; Sawdust drying installation (stove-dryer); Conveyor with snail; Conditioning unit; Pellet pressing module; Pellet evacuation conveyor; Pellet elevator; Cooling Unit; Vibrating jigger; Conveyor with snail; Pellet elevator; Exhausting unit; Pellet weighting machine, Automat packing machine; Electrical installation.

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