



MANUFACTURING OF THERMAL INSULATION PANELS IN RECYCLING PROCESSES

Ideas on utilisation

The offer concerns the method of production of thermal insulation panels with the use of used household appliances (refrigerators and freezers).

Potential adopters of technology

The solution will be used in the production of insulation panels for the construction industry (for insulation of walls, floors, ceilings of buildings).

Advantages of technology

The method of manufacturing insulation panels allows the re-use of parts of the housings of used refrigerators and freezers, which has a beneficial impact on the natural environment, leading to the recycling of end-of-life products.

In comparison to competing technologies, the method is distinguished by cost savings - application of used equipment, the housing of which contains polyurethane foam (no need to manufacture / purchase it by the manufacturer).

The insulation panels produced as a result of the method described are characterised by high utility values resulting from insulation properties of polyurethane foam, the ability to shield thermal radiation of aluminium foil as well as the construction eliminating the probability of forming thermal bridges on insulated facades, floors and ceilings of buildings.

Market and context of technology

The offered solution will be used in manufacturing of insulation panels for applications in the construction industry (industrial and commercial buildings, sandwich panel halls, sports facilities, warehouses). The solution can be used in companies dealing with household appliance recycling and in companies producing sandwich panels for the construction industry.

Preconditions in adopting enterprises

Partial change of technology approaches.