



Annex VII: Infimer Technologies Ltd.

www.infimer.com



Having been born out of an ideological vision, Infimer is a young company (founded in 2013, operational since 2016) that treats municipal solid waste and turns it into a new composite - Infimer®. The Infimer® production process includes two main steps (excerpt from company website):

1. A continuous and cost-efficient process of waste separation, separating the organic lignocelluloses and plastic from the minerals (including metals, glass, rock and sand).
2. Several energy-efficient steps of squeezing and grinding the light fraction (organic lignocelluloses and plastics) and subjecting it as a feedstock to a special reactor-extruder, where Infimer® is produced by using shearing forces, pressure and heat. The last stages of the process include pelletizing, cooling and packing.

This technology is new and innovative and its economic viability has yet to be proven. The factory is a pilot factory that treats around 10 t/d. The input material to the plant has an average of 35 % wet content and comes mainly from the rejects of RDF plants, from the cow industry, and from the rejects of the GreenNet sorting station in Jerusalem. Currently another test is being run with the rejects from the paper industry.

Currently, the following products are being produced in cooperation with big plastic companies: toolboxes, folding work tables, deck tiles, pallets, and injection and molding techniques.

Main problems identified

- Need to establish trust in their product

No other problems mentioned

Key recommendations

No recommendations mentioned

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