

Application Portrait

Bio-Diesel Made of Animal Waste Materials

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Plant for animal waste processing in operation

The first plant to produce biological diesel fuel exclusively of animal waste materials was put into operation in Malchin, Mecklenburg/Germany, on October 5, 2001.

The basic material for this biological diesel fuel are fats from the animal waste processing which are no longer allowed to be added to meat and bone meal¹. The German company Saria Bio-Industries AG & Co. has invested 20 Mio DM into this plant. As per a statement of the management of this enterprise, for the time being, about 13 Mio liters of bio-diesel fuel per year are intended to be produced and to be used for the company's own car pool.

"By building the plant in Malchin, we took the necessary steps from the prohibition of feeding animals with animal waste products within the European Community" said the Chairman of the Board of Directors Norbert Rethman, to whose group of companies, Rethmann AG & Co., Saria is belonging. However, the company was aware of this development a long time ahead, and the plant was already planned since quite some time to be a cost-saving alternative for animal waste material, explained Eberhard Schmidt, Board Member of Saria.

Saria is producing more than 700 tons of animal fats and meat and bone meal per day in their German factories,



Short Path Distillation Plant

which were, so far, mainly used as fuel in power stations and cement kilns and as basic material for chemical products.

The bio-diesel fuel produced

in Malchin is being checked with regard to quality levels by scientists of the University Rostock and the "Fachhochschule" (Professional School) Stralsund in cooperation with truck manufacturers.

For a while, the bio-diesel fuel

shall be used for about 800 trucks of Rethmann and Saria. It is expected that the discharge of carbon dioxide and soot is being considerably reduced. If the results gained in practice would meet the expectations, a further plant might be envisaged, said Schmidt.

ADDITIONAL INFORMATION OF UIC GMBH

(AM) One of the main components of the plant is a Short Path Distillator supplied by UIC GmbH, having an evaporation surface area of several square meters and - upstream - a special degassing stage which can optionally also be used for stripping purposes. UIC GmbH also supplied the vacuum system as well as all the complete pipes. The engineering of the complete plant was done by the Austrian engineering company BDI Anlagenbau, who have also developed the process technology.



Bio-diesel plant

*1 minor text modifications
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