

Entsorga-Enteco 2006w



Ausstellendes Unternehmen w Exhibiting company w Coordonnées de l'entreprisew Informazioni relative all'azienda espositrice w Datos sobre la empresa expositora:

Firma w Firm w Sociétés w Ditta w Razón social : T-Technology - Technologie Ekologiczne – Zbigniew Tokarz
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Beschreibung der Messeneinheit w Description of new products w Description du nouveau produit w Descrizione dei nuovi prodotti w Descripción de las novedades:

T-Technology @ Recycling of plastic waste with the use of catalytic process

This fully economical and ecological recycling technology converts plastic (polyethylene, polypropylene and also plastic of special-purpose) waste into a high-quality component of liquid fuels or, optionally, into an oil fraction of this component.

Apart from recovery of polyethylene (PE) and polypropylene (PP) waste, this technology enables the recovery of special-purpose plastic waste. Thanks to the solutions applied, the presented processing line is able to accept up to 25% of plastic waste additions (apart from PE and PP) in the total mass of the charge. The installation can be used for recovery of various waste polyolefin packaging on a large scale, and also: e-waste or car-waste, waste from packaging made of special-purpose plastics (for example, multi-layer or aluminium sprayed plastics). Thanks to use of the advanced technology of reactor's operation and adaptation of peripheral devices, it enables recovery of very dirty, mixed plastics of variable quality. Two modules of the installation allow processing from 360 to 450 tons of plastic waste a month. The whole process in 1 module requires only the energy generated by 20 litres of fuel oil per hour and 30kW/h of electricity.

The solution consists of a patented reactor along with a complete processing line for production of the liquid fuel component. An additional advantage of this technology is successful completion of the research work and prototype tests concerning utilization of the additional system modifying physical and chemical properties of the final product for the needs of the installation. The additional cooling system (offered as an option) was designed and implemented for the purpose of obtaining one fraction of the final product – the oil fraction.

Innovative aspect and main advantages:

Innovation aspects

- the reactor is an absolute novelty and does not have any equivalents in the world
- the system provides a possibility of separating the final product and recovery of the gaseous fraction of hydrocarbons (with the length of chains from C1 to C4)
- hydrocarbons are turned back to the additional heating installation, ensuring finally a bigger part of the process heat needed for the depolymerization process

Main advantages

- odourless,
- airtight and noise-free,
- does not cause harmful gas emissions into the air,
- the depolymerization processes occurring in this installation do not require the conditions of increased pressure,
- none of the available solutions enables recovery of a charge, which is so differentiated in relation to pollutants and the structure,
- high reliability and efficiency of the whole process

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