

## Waste Disposal at and out of Sea

TECHNOLOG services GmbH develops a vessel-based treatment of plastics for the implementation of value chains in less developed countries as well as to avoid plastic input in the environment, particularly in the marine ecosystems. The German Government is providing financial support for this innovative research and development as part of the funding program "Plastic in the Environment" of the Federal Ministry of Education and Research.

Partners of the research project are the Institut für Energie und Kreislaufwirtschaft at the Hochschule Bremen GmbH and the Nehlsen GmbH & Co. KG. The partners developed general applicable concepts in an initial phase of this joint project already.

Until now a remarkable decrease of plastic at sea so far is technically and economically impossible. Therefore the joint project partner are concentrate to invent applicable solutions to reduce the entry of plastics into the environment.

There is a desperate need to develop a system that reduces the plastic contamination of the environment. Land-based solutions are prevalent in developed countries and can reduce the amount of plastic dumped into the environment significant and effective. However, these systems are usually unsuccessful in less developed countries, where valuable plastic waste often ends up in the environment.

The aim of the project is to develop a system to reduce the amount of plastic waste that enters the environment, particularly marine ecosystems, in less developed countries. This project comprised a set of concepts and preliminary designs that detail the implementation of a waste collection infrastructure as well as a vessel-based treatment system and a method of commercialization of plastic waste. With utilisation of plastics and trade of secondary raw material value chains in the target countries shall be closed. Adding value for societies in the target countries shall help to generate values for the people. The purpose of the joint research and development project is to catch the problem of plastic waste at the source and to reduce the dumping of plastics in the ecosystem.

**Homepage:** <http://www.KuWert.hs-bremen.de>

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## About TECHNOLOG

As the leading partner in maritime technologies TECHNOLOG Services GmbH offers the expanded package of proposals on developments of innovative design solutions, consultations and feasibility studies. It provides professional offers of progressive and innovative engineering solutions including project management connected with transfer of technologies for ship owners, shipping companies and shipyards.

Since 1979, customers have profited from pioneering solutions for the international vessel-building, marine technology and offshore industry. TECHNOLOG's experienced designers, vessel builders and engineers have created new types of vessels and floating facilities that are the most modern and efficient units for global use.

Together with TECHNOLOG-MRM marine services (China) Ltd. in Hongkong and Shanghai as well as Representatives in Australia, Bangladesh, Greece, Singapore, South Korea and China in Germany more than 40 engineers and technicians ensure profound economical and technical services to all clients.

More see under [www.technolog.biz](http://www.technolog.biz).

**About Institute für Energie und Kreislaufwirtschaft an der Hochschule Bremen GmbH**

(Institute for Energy, Recycling and Environmental Protection at Bremen University of Applied Sciences – IE-KrW)

The IEKrW was founded in 2000 and is an example for public private partnership in the field of applied research and development. As SME the institute interfaces the transfer between sciences and industry. The aim of the Institute is the development of ecologically and economically useful solution concepts for waste management and environmental sector. The institute focuses on projects on the reuse, recycling and the cycle management of waste and materials, the efficient use of raw materials, the purification of water, sludge, solids and exhaust air as well as investigations of the related markets.

More see under [www.iekrw.de](http://www.iekrw.de)

**About Nehlsen GmbH & Co. KG**

Nehlsen is an international waste management company which provides customer-oriented services in the field of recycling, disposal and cleaning. As a family company with hanseatic roots, Nehlsen has more 2,000 employees at 50 locations in Europe and Africa.

More see under [www.nehlsen.com](http://www.nehlsen.com)

