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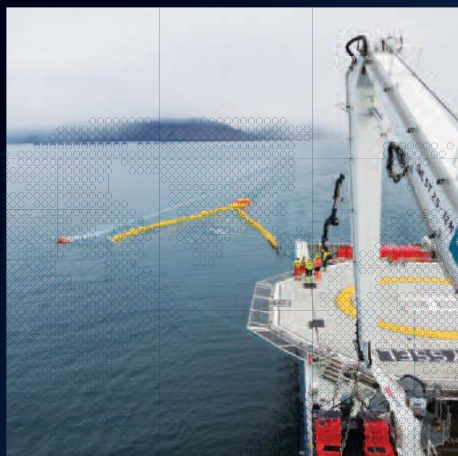
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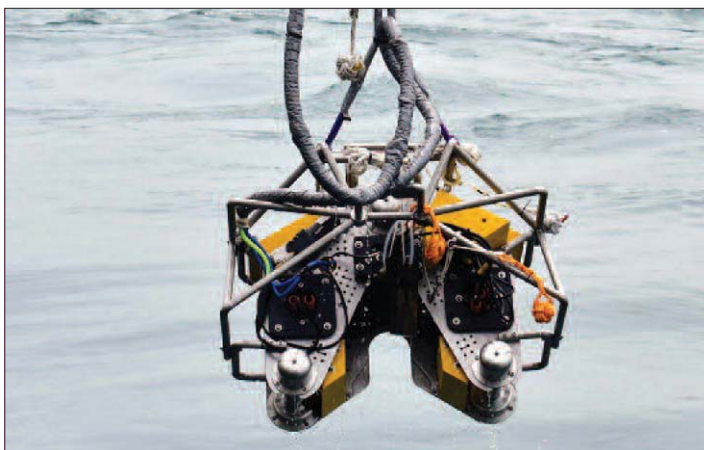
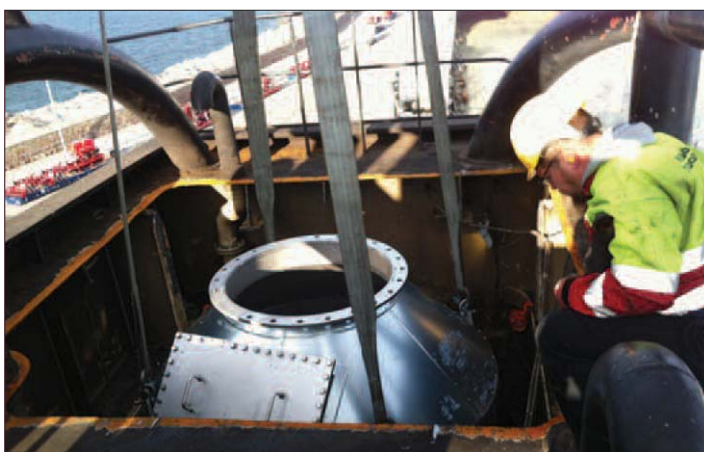
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WASTE DISPOSAL AT AND OUT OF SEA

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.

Find out more at: 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 – IEKRW)

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.

Find out more at: 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.

Find out more at: www.nehlsen.com



SEA\LNG LAUNCHES LNG BUNKER NAVIGATOR TOOL

New tool provides evolving overview of the rapid development of LNG bunkering infrastructure

AMSTERDAM, LONDON, 30th JANUARY 2018: SEA\LNG, the multi-sector industry coalition aiming to accelerate the widespread adoption of liquefied natural gas (LNG) as a marine fuel, today announced that it has launched a new free-to-access online tool to improve understanding of the current, and rapidly evolving, LNG bunkering infrastructure landscape.

Launched from the 6th LNG Bunkering Summit currently taking place in Amsterdam, the new Bunker Navigator Tool utilises member, marine information services, and publicly available data to provide easy access to the latest developments in the global LNG bunkering infrastructure. SEA\LNG's map-based tool, provides an overview of key LNG bunkering developments and how this growing infrastructure relates to major global shipping routes, traditional oil bunkering ports, and the bulk LNG infrastructure which will provide the foundation for future bunkering services.

As the 2020 0.5% global sulphur cap edges ever closer, shipowners must make decisions that remain viable into the future – and choose between a limited number of options; LNG, scrubbers, or low sulphur fuels. SEA\LNG believes that demonstrating – through the newly launched Bunker Navigator Tool – that LNG bunkering infrastructure is available globally and is continually developing will support ship owners' investments in LNG-fuelled ships.

Peter Keller, SEA\LNG chairman and executive vice president, Tote said: "The coalition's mission since inception has been to further the shipping industry's knowledge of the viability and sustainability of LNG as a marine fuel. A key barrier has been a general lack of understanding of current and forthcoming LNG bunkering infrastructure. What we sought to achieve with the Bunker Navigator Tool is a quick, easy-to-access platform that includes relevant, up-to-date, and free-to-access information on LNG infrastructure and bunker development.

Today, LNG is readily available in bulk at circa 150 locations worldwide, and there is a huge bulk LNG infrastructure of regasification terminals and liquefaction plants globally. Of the world's top oil-bunkering ports, nine of the top ten offer LNG bunkering, or will do so by 2020. However, it is the movement of LNG from bulk facilities to the ships, more commonly known as the 'last mile', where efforts are being concentrated to enable easy access to LNG as a marine fuel.

As well as an overview of key LNG bunkering developments, the map-based tool enables access to case studies which describe the bunkering projects being developed by SEA\LNG members at specific locations, with more added as they become available.

By addressing the core compliance issue for owners – the fuel their vessels are burning – LNG provides a viable solution for the long term. LNG emits zero SOx, virtually zero particulate matter, and – depending on the technology used – 90% fewer NOx emissions. LNG's greenhouse gas (GHG) performance represents a major step forward when compared with traditional marine fuels. Utilising best practices and appropriate technologies can result in realistic reductions of GHG by about 20%.

Keller concluded: "A collaborative approach to understanding the opportunities – and then tackling the associated commercial barriers – to LNG is crucial to fulfil its potential as an alternative to traditional bunker fuels. The reality is that LNG bunkering infrastructure is expanding at pace, and with the launch of the Bunker Navigator Tool, SEA\LNG hopes to raise awareness of, and build industry confidence in, the rapidly growing global availability of LNG bunkering."

The new Bunker Navigator Tool can be accessed via the following link: <https://sea-lng.org/bunker-navigator-introduction/>.

About SEA\LNG:

SEA\LNG brings together key players from across the supply chain, including shipping companies, classification societies, ports, major LNG suppliers, downstream companies, infrastructure providers and OEMs (original equipment manufacturers) to address market barriers and transform the use of LNG as a marine fuel.

SEA\LNG is a not for profit collaborative industry foundation serving the needs of its member organisations. SEA\LNG's members include: ABS, Carnival Corporation & plc, Clean Marine Energy, DNV GL, Eagle LNG Partners, ENGIE, Gas Natural Fenosa, GE, GTT, JAX LNG, Keppel Gas Technology, Lloyd's Register, Marubeni Corporation, Mitsubishi Corporation, Mitsui & Co., Ltd., Novatek Gas & Power, NYK Line, Petronet LNG, Port of Rotterdam, Qatargas, Shell, Société Générale, Sumitomo Corporation, Total, TOTE Inc., Toyota Tsusho, Yokohama-Kawasaki International Port Corporation (YKIP), and Wärtsilä.

SEA\LNG is guided by a board, which is led by chairman Peter Keller. Each member organisation commits mutually agreed human resources, data analysis and knowledge sharing in support of SEA\LNG initiatives and activities and financially contributes via a membership fee.

The SEA\LNG coalition was established by Xyntéo, an advisory body which works with global companies to identify and implement collaborative initiatives that enable businesses to grow in a new way, fit for the resource, climate and demographic realities of the 21st century.

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