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Terragon: Next-Step in Ship Waste Handling

By Josh Keefe

Terragon Environmental Technologies Inc., a developer of waste-to-resource technology solutions, has entered into a strategic partnership with Green Marine Capital (GMC). Terragon CEO and Co-founder Dr. Panayotis Tsantrizos said the partnership will allow the company to commercialize its products in the marine sector. Terragon's first commercially available product, the Micro Auto Gasification System (MAGS), is designed to convert each kilogram of organic waste generated by a habitat into 2kWh of thermal energy by using gasification technology the company says is clean and simple to operate. The technology was the winner of a recent award for Technical Innovation in North America. Currently, MAGS is commercially available in multiple market sectors, and has been used by the military and isolated communities in the Canadian Arctic. A second product, the Wastewater Electrochemical Treatment Technology (WETT), converts sewage into clean water. Tsantrizos said that WETT is currently in the field evaluation stage of development, but expressed hope that WETT will be commercially available in 2016. The company said the combination of the two technologies will be able to eliminate waste discharge from any habitat while reducing energy and water needs.



Sverre Prytz, Managing Director of signed for the reduction/elimination of Oslo and Singapore-based Green Marine waste streams, but for their use to gen-Capital, noted that regulatory changes in erate resources within any habitat," said 2013 increased the importance of waste Tsantrizos. "As such, they have to be management technology onboard comvery clean, safe, simple and have exmercial vessels. "[Terragon's] unique ceptional resource recovery efficiency. onsite waste-to-resource solution cou-MAGs meets all land based environmental regulations." Tsantrizos expressed pled with a growing market makes this a hope that the IMO would create a new "Terragon's technologies are not de- class of equipment for the technology

An important challenge for all companies offering technologies that enable a cleaner and more efficient ship, is the separation between the owner and the operator of the ship, since in some cases, the owner does not currently have a way to recover the cost of building a better ship through reduced operating costs.

Dr. PanayotisTsantrizos, **CEO** of Terragon

his company is developing; a class that would have stricter performance requirements, but also be allowed to operate in port. Initial funding for the development of Terragon's waste-to-resource technology came from the U.S. and Canadian Navy and from Sustainable Development Technology Canada - a foundation created by the Canadian government.

www.terragon.net

The company said the combination of the two technologies (MAGS & WETT) will be able to eliminate waste discharge from any habitat while reducing energy and water needs.



Left: MAGS Cutaway

compelling opportunity," said Prytz.

Right: V7 HMI **Loading Drums**

