



ASX AND MEDIA RELEASE 12 SEPTEMBER 2011

**GREENEARTH ENERGY SUBSIDIARY COMPLETES DIESEL
WASTE HEAT-TO-CLEAN ENERGY TECHNOLOGY SALE IN AMERICAN SAMOA**

Greenearth Energy Limited is pleased to announce that its wholly owned subsidiary, Pacific Heat and Power Pty Ltd, has sold two PureCycle® Organic Rankine Cycle (ORC) Turbines.

The sale was to Service Engineers Limited, a New Zealand based partner who recently won a Turnkey contract for capturing waste heat from diesel engines that are owned by the American Samoa Power Authority. The PureCycle® ORC Turbine application will result in an additional 300kWe net, baseload, zero emissions power for American Samoa.



Ofu Island, American Samoa

American Samoa, like most of its neighbours in the Pacific Rim has a high dependency on diesel fuel as its primary power generation source. Despite the relatively small scale of many of these Pacific Island generators, pre-engineered systems reduce the costs of implementing small scale waste heat recovery projects allowing communities to reduce their generation costs while at the same time positively impacting their emission levels.

The collaboration between PHP, Service Engineers and Pratt & Whitney Power Systems has provided the American Samoa Power Authority with an attractively priced diesel waste-to-clean energy total solution. This has been achieved despite challenging conditions for ORC systems, being variable low temperature heat source combined with high average ambient temperatures.

Managing Director of Greenearth Energy Mark Miller said, "We are delighted to have helped finalise this contract and we look forward to successfully commissioning the project in the first half 2012. As the first diesel waste heat-to-energy project using ORC technology in the Pacific Islands we believe this will drive awareness and ultimately sales of this savvy technology.



A Single PureCycle® ORC Turbine Unit

"Our product technology offering, complimentary services and high calibre partners have the potential to deliver megawatts of base load zero emissions power from low value waste heat industrial process in Australia and the wider Pacific Rim.

"We have diversified our business and today our group contains a balanced portfolio of clean energy solutions that have the potential to deliver immediate, medium term and long term project income opportunities. This latest sale is evidence that our vision and strategy is coming to fruition".

For more information, please contact Greenerth Energy on (03) 9620 7299.

A handwritten signature in blue ink, appearing to read 'Mark Miller', with a horizontal line underneath.

Mark Miller
Managing Director
Greenerth Energy Limited

Level 14, 500 Collins Street
Melbourne, Victoria, 3000

www.greenerthenergy.com.au

About PureCycle®

The PureCycle® power system, developed by Pratt & Whitney Power Systems (PWPS), is a pre-engineered system that harnesses waste heat to generate electricity. This results in a 280 kW on-site power generation system that requires no fuel input except heat in the form of hot water, low pressure steam, or thermal oil. Based on a thermodynamic cycle known as the Organic Rankine Cycle (ORC), the PureCycle® power system converts low to moderate temperature resource fluids like water into electricity through vaporising and expanding a working fluid in a closed system.

About Pacific Heat and Power Pty Ltd

Pacific Heat and Power (PHP) have a stable of technologies that can turn losses and inefficiencies into a valuable resource through making electricity for use on site or sale to the grid. Our products are based on proven world class technologies that provide customers with increased energy productivity, energy reliability, operational savings and lower greenhouse gas emissions

Powered by Heat