

Market Announcement

Enerji Ltd (ERJ)

31 March 2015



Collaboration Agreement with Panorama Synergy

Highlights

- > Agreement to develop MEMS-based hydrocarbon sensors for high temperature ORC systems
- > Potential to triple electricity output from Opcon Powerbox using toluene as working fluid
- > Potential to harness greater proportion of 30,382 PJ per annum wasted global energy output
- > Exclusive rights to market and sell sensors for ORC heat to power projects globally
- > Leading the way in developing new industry safety standards

Enerji Limited (ASX: ERJ; “Enerji” or the “Company”), which harnesses waste heat from power generation and industrial processes to generate electricity, today announced that it has entered into a collaboration agreement with Panorama Synergy (ASX: PSY; “Panorama”) to develop a hydrocarbon monitoring system using MEMS technology.

Enerji is assessing the viability of using high temperature hydrocarbon working fluids such as toluene as an alternative to the current low temperature fluids used in its Opcon Powerbox, a heat-to-power system which is powered by an Organic Rankine Cycle (“ORC”) turbine. Where higher temperature waste heat is able to be harvested, typical of remote area power plants, using high temperature hydrocarbons has the potential to produce 2-3 times more electricity from the same quantity of input thermal energy.

This will allow Enerji to harness a greater proportion of the estimated 30,382 PJ per annum of currently untapped waste energy from global electricity generation, more than the total amount of energy produced from coal burned for power generation around the world.*

In partnership with Panorama and utilising Panorama’s all-optical MEMS technology, Enerji will develop sensors which can measure and track hydrocarbons in high temperature ORC power systems, and ultimately provide industry leadership and new best practice in safe working environments in this application.

The phased agreement with Panorama is for an initial 24-month period with the option to extend it for a further 24 months. Enerji and Panorama will initially determine the commercial feasibility of the toluene sensor with a view to reaching a formal co-development and production agreement. This would also provide Enerji with the exclusive right to market and sell the sensors internationally for use in ORC heat to power projects.

**source: International Energy Agency Electricity Information Statistics 2014, worldwide not including combined heat and power plants*

Mr Colin Stonehouse, Chief Development Officer of Enerji, commented: “We are confident that by adopting high temperature working fluids into our unique heat-to-power systems we can tap into a greater proportion of the phenomenal amount of waste heat that comes from producing electricity. This is a very exciting prospect for Enerji.

“By utilising Panorama’s advanced sensing technology, we can potentially triple our electricity output, while leading the industry in developing new safety standards for handling hydrocarbons such as toluene. The agreement with Panorama also gives us scope to exclusively market and supply sensors for high temperature ORC power systems globally, which are more advanced than anything available in the market today.”

Enerji will make an initial payment to Panorama of \$20,000. Each party will bear it’s own development costs. Commercial terms are yet to be finalised once the projects are fully scoped.

- ENDS -

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About Enerji

Enerji is a thermal energy company that harnesses waste heat from power generation and industrial processes to generate electricity. Through its unique Accretive Thermal Energy Node (ATEN) technology, it converts heat into electricity without using any additional fuel or creating any additional emissions.

ATEN captures heat accretively from a range of different sources and simultaneously conditions it for use in a single heat-to-power system. This feeds into their energy customers’ electricity supply to reduce their cost base.

Enerji’s different ATEN systems have been developed with a compact, standardised design suitable for prefabricated, modular manufacture, removing the need for costly bespoke infrastructure. By reducing project complexity, time and cost the Directors believe ATEN will disrupt and grow the heat-to-power market.

www.enerji.com.au