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**GREENEARTH ENERGY SUBSIDIARY LAUNCHES ISRAELI  
STATE-OF-THE ART SOLAR TECHNOLOGY IN AUSTRALIA**

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Greenearth Energy Limited (ASX:GER) is pleased to announce that its subsidiary Greenearth Solar Energy Pty Ltd (Greenearth Solar Energy) and Israel based ZenithSolar Ltd (ZenithSolar) have joined forces to introduce to the Australian market a unique, state-of-the art High Concentration Photovoltaic (HCPV) / Combined Heat and Power (CHP) solar technology, the ZenithSolar Z20.

Greenearth Solar Energy and ZenithSolar have signed a Conditional Distribution Agreement under which a trial of the ZenithSolar Z20 technology will be carried out in Victoria in early 2011. A successful trial will result in Greenearth Solar Energy and ZenithSolar establishing an Exclusive Distribution Agreement for the technology for Australia, New Zealand, Indonesia and a number of Pacific Island nations.



**ZenithSolar Z20 CHP Solar Technology**

Developed in Israel and successfully operating since April 2009 the ZenithSolar Z20 CHP Solar Technology features two 11m<sup>2</sup> collectors, mounted on a dual axis tracker that concentrates incoming solar power onto a receiver which consists of a multi junction PV coupled to a heat exchanger that efficiently converts concentrated solar flux into DC electrical power and thermal energy.

DC electrical power is then converted to AC power and fed to either direct to a customer or the grid.

Thermal energy created by the ZenithSolar Z20 CHP solar technology is pumped through a closed loop system to proximate customer applications including;

- Hospitals and Aged Care facilities
- Hotels, Resorts & Leisure Centres
- Municipal Offices & Swimming Pools
- Universities and Technology/Industrial Parks
- Industrial process heat applications including textile, food and pharmaceutical industries

Thermal energy produced by Zenith Solar's Z20 CHP solar technology can also be utilised for cooling, desalination including brackish water purification.



**ZenithSolar Z20 CHP Solar Technology installation successfully operating at KibbutzYavne Israel since April 2009**

The benefits of the ZenithSolar Z20 CHP solar technology include;

- Combined Heat and Power generation (CHP)
- Industry highest combined efficiency of greater than 72%
- Dual outputs (Heat and Power) improves project ROI
- System design allows for easy upgrades
- Modular Installations with small footprint
- Proven field performance

Co-Founder and Chief Executive Officer of ZenithSolar Roy Segev said; "Australia is an important strategic market for ZenithSolar and we are delighted to be entering into this partnership with Greearth Solar Energy and establishing a field trial of our world-class technology in 2011.

"Our Z20 CHP solar technology has been successfully operating in Israel since early 2009, we continue to refine and improve our product to where we have today the industry's highest combined efficiency backed by proven field performance. We have complete confidence in our technology and look forward to a long and mutually beneficial partnership with Greearth Solar Energy and its customers".

Managing Director of Greearth Energy Mark Miller said; "We have been working with ZenithSolar for some time and are delighted to have established the terms of our 2011 Victorian trial.

"We believe the ZenithSolar Z20 CHP solar technology has the potential to efficiently deliver the dual benefits of emissions free power and hot water to a wide range of customers. We look forward to successfully delivering the Victorian trial of the ZenithSolar Z20 CHP solar technology and moving to full distribution within Australia and our region.

"This latest strategic initiative further underpins our objective to deliver our core geothermal energy projects in the Australian market and wider Pacific Rim while concurrently establishing aligned and complementary technologies in the broader renewable and energy efficiency sectors".

To view the ZenithSolar Z20 solar technology please visit Z Future by ZenithSolar –

<http://www.youtube.com/watch?v=dbzfHP9dq9o>

Also visit ZenithSolar at [www.zenithsolar.com](http://www.zenithsolar.com)



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

A handwritten signature in blue ink, appearing to read "Mark Miller", is displayed on a white background.

**Mark Miller**  
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**Greenearth  
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