

ASX ANNOUNCEMENT AND MEDIA RELEASE 16 MAY 2011

GREENEARTH ENERGY'S STATE-OF-THE ART ISRAELI SOLAR TECHNOLOGY ARRIVES IN MELBOURNE

Greenearth Energy Limited (ASX:GER) is pleased to announce that their state-of-the-art Israeli solar technology has arrived in Melbourne. Eight units of the ZenithSolar's Z20 state-of-the-art, High Concentration Photovoltaic (HCPV)/Combined Heat and Power (CHP) solar technology, have arrived in Melbourne and will establish Melbourne as the first ZenithSolar Z20 demonstration outside Israel.



Artist Impression of the ZenithSolar Z20 CHP Solar Technology Proposed Demonstration at 69 Fennell Street Port Melbourne*



ZenithSolar Z20 Units being unloaded in Port Melbourne

On January 24 Greenearth Energy announced that their subsidiary, Greenearth Solar Energy Pty Ltd (Greenearth Solar Energy) and major Greenearth Energy shareholder Advance Publicity Limited had agreed commercial terms for the establishment of a high profile demonstration site located in Port Melbourne only minutes from Melbourne's CBD.

The proposed demonstration site at 69 Fennell Street Port Melbourne, with its unique central location will allow potential investors, project developers and offtake customers alike easy access to the state-of-the art technology. Eight Z20 units on the proposed site will produce a peak output of 88kW thermal energy (hot water) and 36kW of electrical energy.

In late 2010, Greenearth Solar Energy and ZenithSolar signed a Conditional Distribution Agreement under which a trial of the ZenithSolar Z20 technology will be carried out in Victoria in 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.

A single ZenithSolar Z20 CHP solar technology unit features two 11m² collectors mounted on a dual axis tracker that concentrates incoming solar power onto a receiver. The Z20 receiver consists of a multi junction PV cell 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 either direct to a customer or the grid.

Thermal energy, in the form of heated water 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



ZenithSolar Z20 CHP Solar Technology installation successfully operating at Kibbutz Yavne Israel since April 2009

The successful operation of the ZenithSolar Z20 CHP solar technology at Kibbutz Yavne in Israel has demonstrated the benefits of the technology which include:

- Combined Heat and Power generation (CHP)
- Industry leading combined efficiency of greater than 75%
- Dual outputs (Heat and Power) improves project ROI
- System design allows for easy upgrades
- Modular Installations with small footprint
- Proven field performance

Managing Director of Greenearth Energy Mark Miller said; "We are delighted to have received our demonstration shipment and look forward to successfully commissioning our Port Melbourne site later this year. We are currently seeking all the necessary planning permits and finalising the selection of contractors for the design and construction of the first Z20 demonstration site outside Israel.

"We believe the ZenithSolar Z20 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 and moving to full distribution within Australia and the wider Pacific region.

"Greenearth Energy over the last 12 months has embraced several Israeli technologies for introduction into the Australian market and, as we have announced in recent weeks, we are seeing compelling take-up of our Metrolight energy efficiency solutions category in particular.

"Our alliance with Israeli technology partners Metrolight and ZenithSolar and the successful deployment of those technologies locally will underpin our objective to deliver our core conventional geothermal energy projects in the Australian market and wider Pacific Rim while concurrently establishing aligned and complementary technologies in the broader renewable energy and energy efficiency sectors".

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* Artist impression of proposed Zenith Solar Z20 CHP Demonstration site at 69 Fennell Street Port Melbourne. Final site configuration will be subject to meeting all environmental, regulatory and planning approvals.

