



WS Energia Lda
Taguspark, Tecnologia II,
Pavilhão 47, 2780 Oeiras
T / F : 968541558
F : 21 421 2190
www.ws-energia.com

Para / To:	De / From: WS Energia Lda
Ass. / Re:	e-mail: fv@ws-energia.com
Data 15 February, 2008	N.º Pags.: 3

PRESS RELEASE

FOR IMMEDIATE RELEASE

DoubleSun® PV concentration tracker awarded best robotics in 2007

February 2008. Farnell Electronics, the world-wide leading multi-channel, high service distributor, nominated the 3DSunTracker® robotics integrated in the DoubleSun® photovoltaic concentrator as one of the five most creative electronic designs that will have a positive impact on the environment.

The panel of the Live EDGE Electronic Design for the Global Environment challenge, promoted by Farnel Premier, judged more than 3500 designs from 102 countries and above all distinguished the 3DSunTracker® designed by IdMind, Portugal, for its effectiveness on solar energy production, easy installation and configuration.

The 3DSunTracker robotics is the electronic control and energy supply that power the 2 axis trackers with solar concentrators DoubleSun®, produced and commercialized by WS Energia, Portugal.

DoubleSun® products, with a marginal cost increase, duplicates the annual energy yield produced by off-the-shelf solar modules by integrating extremely light flat mirrors in a 3D tracking structure that is easy to mount, quick to install and extremely reliable.

For more information: Joao Cordovil Wemans

Tel: 21 421 2190; Fax: 21 421 2190

More info in: <http://www.ws-energia.com/eng/new/noticias.html>

About WS Energia Lda

WS Energia leads the photovoltaic concentrators sector, being the largest industrial producer of optic equipment for low-level solar concentration using commercially available solar modules.

WS Energia provides a whole set of services exclusively in the PV sector: preliminary design of PV plants, due diligence, technology mix integration, negative dead-line effects mitigation with technology mix, certification of PV plant efficiency from Sun radiation to AC output.

The company has a clear hi-tech dominant characteristic: 30% of the human resources employed in the Engineering Division has a PhD degree, 75% are engineers and 15% are industrial designers.

About IdMind Lda

IdMind is a Portuguese SME which has been developing and commercializing a portfolio of innovative products and services in the areas of Robotics, Automation and Mechatronics, which are the result of a strong focus on Research and Development activities. The current core business of IdMind is to provide solutions for RTD projects, industry, and services. These projects include complete robot solutions, as well as electronics design and system integration for existing hardware platforms.

About DoubleSun® technology

When solar modules are installed in a system with DoubleSun® technology, they are exposed to two suns: one direct and one reflected by the extremely light flat aluminium mirrors.

With such a simple method, the DoubleSun® systems double the energy produced by commercially available solar modules with a solution that is easy to make, easy to build and 10 times lighter than glass- mirrors.

The technology, developed by the Portuguese company WS Energia, received the BES Inovação award as best innovation in Portugal in 2006.

WS Energia commercialize two products integrating DoubleSun® technology:

DoubleSun®Four — > 6 kWreal tracking/concentration elements for medium PV Plants.

DoubleSun® Four Compact — 0,6 kW tracking/concentration elements for on roof (production will start in 2008).

In 2008, the DoubleSun® Technology will be applied in several parks in Portugal, Spain and Italy. By the end of 2008, there will be more than 1500 DoubleSun®Four elements installed in Europe, corresponding to a peak power of about 2 MW, and the production capacity will exceed the 1000 elements per month, depending on market acceptance.

About 3DSunTracker®

The 3DSunTracker is an active self-powered two-axis solar tracker for orienting a set of solar photovoltaic panels assuring its precise alignment towards the sun. Based on local geo-positioning and internal measure of time and inclination it drives the installation to the desired orientation. This tracker is applied to the DoubleSun® tracking structure with concentration reflectors which has been producing up to 60% more power and up to 117% more energy than traditional fixed point panel system in the same conditions.

About Premier Farnell

Premier Farnell plc (LSE:pfl) is a leading high service, multi-channel distributor of electronic, maintenance, repair and operation products and specialist services throughout Europe, the Americas and Asia Pacific. It goes to market with a differentiated value proposition, world-class marketing, a stocked range of 400,000+ products, and access to 4,000,000 more items from 3,000 top manufacturers. The company has group sales of £823.1m and 4,100 employees globally.

While global in scope, Premier Farnell recognizes the individual needs of each market and has continued to internationalize its model accordingly, trading locally under different brand names. Its primary electronics businesses trade as Farnell in the UK, Europe, Australia and New Zealand, Newark in the US, Canada and Mexico, and Premier Electronics in China. In Singapore, Malaysia, Hong Kong and Brazil the operation is known as Farnell Newark.