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SCHOTT supports Club of Rome energy concept

Clean power from deserts for Europe, the Middle East and North Africa

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Today, the former President of The Club of Rome, Prince Hassan bin Talal from Jordan, presented the White Book “Clean Power from Deserts – The DESERTEC Concept for Energy, Water and Climate Security” from the Club of Rome’s Trans-Mediterranean Renewable Energy Cooperation (TREC) initiative to the European Parliament in Brussels. According to the White Book, Europe should cooperate more closely with the Middle East and North Africa (MENA region), in order to combat climate change “in a way that is economically, technologically and politically feasible”. Key technologies in the DESERTEC Concept are concentrating solar thermal power plants and high-voltage direct-current transmission lines for transporting clean electricity from the MENA region to Europe. *(See press release from the German Association CLUB OF ROME dated 11/27/2007 under www.desertec.org)*

As a leading manufacturer of solar receivers, SCHOTT supports this initiative from the Club of Rome. “Solar thermal power plants offer an excellent solution for industrial scale generating electricity in the sunniest regions of the earth. This technology is on its way to



achieving its global breakthrough and is capable of contributing towards more climate-friendly power generation. In addition, it offers the opportunity to achieve infrastructural and energy-related advances and promote the economic development of the southern and eastern Mediterranean region,” said Professor Udo Ungeheuer, Chairman of the Board of Management of SCHOTT AG, upon the presentation of the White Book in Brussels.

Receivers from SCHOTT Solarthermie GmbH in Mitterteich (Bavaria/Germany) represent the heart of solar thermal parabolic trough power plants. These plants consist of a large field of trough-shaped parabolic mirrors that concentrate sunlight onto absorber tubes (receivers) located along the focal line. Concentrated solar radiation is converted into heat inside these specially coated receivers. Then, a special heat transfer fluid that reaches temperatures of up to 400° Celsius (over 750° F) flows through the receivers and is pumped to the main power plant generator. It then passes through heat exchangers, before it generates the steam needed to drive the turbines, as in conventional power plants.

The technology behind parabolic trough power plants has been proving itself in the Mojave Desert in California for more than 15 years. Now, even more efficient power plants of the second generation are being built. The “Nevada Solar One” parabolic trough power plant located in Boulder City, near Las Vegas, Nevada (USA), began supplying power to the grid in June. In the summer of 2008, Europe’s first commercially operated parabolic trough power plant “AndaSol” located near Granada, in Andalusia / Spain, will join the grid. Receivers from SCHOTT were used in the “Nevada Solar One” power plant and are also being put to use in the “AndaSol” power plant. When it comes to receivers, SCHOTT clearly ranks as the



global technology leader. The company is currently building a second manufacturing site for receivers in Spain.

Further information can be found under www.schott.com/solar

High resolution photographs can be downloaded from www.schott-pictures.net

SCHOTT is an international technology group that sees its core purpose as the lasting improvement of living and working conditions. For this purpose, special materials, components and systems are developed. The main areas of focus are the household appliances industry, optics and opto-electronics, pharmaceuticals and solar energy. The SCHOTT Group has a presence in proximity to its customers through its production and sales companies in all its major markets. It has approximately 16,800 employees producing worldwide sales of approximately 2.2 billion euros. The company's technological and economic expertise is closely linked with its social and ecological responsibility.

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