



Würth Solar creates an architectural highlight in China

Integration of CIS solar modules in the roof of Beijing South Railway Station

Schwäbisch Hall, March 10, 2008. A new highlight in building-integrated solar technology is currently emerging in Beijing. Solar modules from Würth Solar will generate electricity from sunlight in the newly built South Railway Station from August 2008.

The grid-coupled system consists of 5,200 CIS photovoltaic modules from Würth Solar with a peak nominal power totaling around 390 kilowatt and is therefore the world's largest building integration of solar modules in CIS technology. "This project is a showpiece and exemplary for building integration of solar modules. It represents a successful crossover between architecture and solar technology, as the modules not only enhance the building ecologically, but also from an esthetic perspective", explains Timo Bauer, product manager at Würth Solar.

The modules are arranged in an alternating chess board pattern with clear glass arrays and traverse the freely suspended roof over the railway building waiting hall like a ribbon. The individual photovoltaic arrays consist of 9 to 18 CIS modules each with a module output of 75 Watt. Besides power generation, the CIS modules in the roof fulfill another function: they shade the interior and thereby contribute to reducing the air-conditioning costs. "Beijing South Railway Station is a successful example for the architectural possibilities presented by our CIS modules. The project underlines the advantages of CIS technology, which combines flexible applicability and high energy yields", Bauer continues.

For this project, Würth Solar is teaming up with the Chinese construction company Ruihua Construction Corporation (RHC), which is responsible for planning. Its subsidiary Resun Solar installs power units from Würth Solar CIS modules and runs the project on site. Ruihua Construction based in Shenzhen / Southern China is one of the country's leading facade construction companies with prestigious reference projects worldwide, including two large buildings currently under construction on the site of the Olympic Village in Beijing.



"Thanks to their manifold advantages, above all in regard to their energy yield and esthetics, CIS modules are extremely popular among architects", states Landrew Zhou, project manager at Ruihua Construction. "Würth Solar is the world's biggest and most experienced producer of CIS modules. That is why we chose this company as the supplier for the photovoltaic project in the Beijing South Railway Station."

Opening in August 2008

Construction of the railway station is in full swing. The inauguration will be on August 4, 2008, just four days before the opening of the Olympic Summer Games. With a ground area of 50,400 square meters and a floor area of 220,000 square meters, according to Ruihua Construction, Beijing South Railway Station is the biggest railway station in Asia and traffic hub for railway lines, underground, city railway, buses and taxis. From 2010 it is set to be the terminal for the high speed train connecting the metropolitan areas of Shanghai and Beijing with a journey time of five rather than the previous 14 hours. The station, 40 meters high at its highest point, has two overground and three underground levels.

We would be pleased to provide you with image material in printable resolution (preview cf. Page 3).

About Würth Solar

Würth Solar belongs to the Würth Group and is considered to be an innovation leader in CIS technology for photovoltaic energy generation. Würth Solar was the first company worldwide to begin large-scale production of CIS solar modules in autumn 2006 from its specially-built CISfab solar factory in Schwäbisch Hall. CIS stands for the chemical compound comprising copper, indium and selenide (CuInSe₂). Würth Solar currently employs a staff of around 150. For further information visit www.wuerth-solar.de.

Image preview



Computer model of the waiting hall of Beijing South Railway Station. Completion in August 2008 (Source: Ruihua Construction Corporation)



Timo Bauer (l.), product manager at Würth Solar, and Landrew Zhou (r.), Vice President Ruihua Construction Corporation (RHC), at the construction site of Beijing South Railway Station. Completion in August 2008 (Source: Würth Solar)



The new Beijing South Railway Station from the air. The solar modules from Würth Solar traverse the center of the station roof like a ribbon in a chess board pattern with alternating clear glass arrays. (Computer simulation. Source: Ruihua Construction Corporation)