



Dow Electronic Materials Introduces New ENLIGHT™ Photovoltaic Products at European Photovoltaic Solar Energy Conference

Unique Technology Improves Solar Cell Device Performance and Overall Cost

Marlborough, MA, USA – September 17, 2009 – [Dow Electronic Materials](#) will introduce its new line of ENLIGHT™ Products for photovoltaic manufacturers at this year's 24rd European Photovoltaic Solar Energy Conference and Exhibition (PVSEC) in Hamburg, Germany (Stand 53, Hall B7, Congress Centre and International Fair, Hamburg, Germany). ENLIGHT™ Photovoltaic Products increase solar cell efficiency and yield, improve device performance at low cost, and enable faster adoption of solar energy as a renewable energy alternative. The suite of ENLIGHT™ Photovoltaic Products offers a complete solution which includes metallization, imaging, texturizing, and cleaning.

- **ENLIGHT™ SilverPlate 620 for PV metallization** is based on Light Induced Plating (LIP) technology. This advanced technology can increase cell efficiencies by more than 0.3% compared to standard paste processes, and has many advantages when used in nickel/silver or nickel/copper/silver cell metallization compared to conventional silver plating systems. The product has been used in commercial production of solar cells.
- **ENLIGHT™ JetResist 1320 for PV imaging** is a hot melt ink that is compatible with most drop-on-demand inkjet systems. The product has superior adhesion and conformance to a wide range of dielectric surfaces and is compatible with combined etch and plating processes. The product is planned to be commercially available early next year.
- **ENLIGHT™ 120 for PV Texturizing** is a new mono crystalline texturizer which will eliminate the use of isopropanol, which can pose significant safety and environmental challenges during manufacturing of solar cells. Process time can be reduced by up to a factor of three with excellent control to achieve good uniformity. The product is expected to be commercially available early next year.
- **ENLIGHT™ Wafer Clean 340 Series for PV cleaning** has shown excellent cleaning ability for a wide range of contaminated wafers. It has been specially designed to eliminate black and white spots, clean metal contaminants, remove finger prints, and is environmentally friendly. The product is expected to be commercialized later this year.

“One of the keys to successfully manufacture solar cells is the ability to deliver high device performance at a low cost,” said Bob Ferguson, global general manager for Dow Electronic Materials. “We have developed a broad set of ENLIGHT™ products to meet this demand. Since 2006, we’ve worked with many leading PV companies to enhance cell efficiency using our advanced ENLIGHT™ Wet Chemistry Solutions. With Dow Electronic Materials’ global footprint, cutting-edge technology and outstanding customer service, we are committed to the world’s renewable energy challenges,” he said.



ENLIGHT™ Photovoltaic Products offer a broad range of products for various photovoltaic applications, including:

ENLIGHT™ Texturizer 100/200 Series
ENLIGHT™ Wafer Clean 300 Series
ENLIGHT™ Electroless Nickel 700 Series
ENLIGHT™ Electroless Copper 900 Series
ENLIGHT™ Electrolytic Copper 400 Series
ENLIGHT™ Electrolytic Tin 500 Series
ENLIGHT™ SilverPlate 600 Series
ENLIGHT™ JetResist 1300 Series

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About Dow

Dow is a diversified chemical company that combines the power of science and technology with the “Human Element” to constantly improve what is essential to human progress. The Company delivers a broad range of products and services to customers in approximately 160 countries, connecting chemistry and innovation with the principles of sustainability to help provide everything from fresh water, food and pharmaceuticals to paints, packaging and personal care products. In 2008, Dow had annual sales of \$57.5 billion and employed approximately 46,000 people worldwide. The Company has 150 manufacturing sites in 35 countries and produces approximately 3,300 products. On April 1, 2009, Dow acquired Rohm and Haas Company, a global specialty materials company with sales of \$10 billion in 2008, 98 manufacturing sites in 30 countries and approximately 15,000 employees worldwide. References to “Dow” or the “Company” mean The Dow Chemical Company and its consolidated subsidiaries unless otherwise expressly noted. More information about Dow can be found at www.dow.com.

About Dow Electronic Materials

Dow Electronic Materials, a global supplier of materials and technologies to the electronics industry, brings innovative leadership to the semiconductor, interconnect, finishing, display, photovoltaic, LED and optics markets. From advanced technology centres worldwide, teams of talented Dow research scientists and application experts work closely with customers, providing solutions, products and technical service necessary for next-generation electronics. These partnerships energize Dow’s power to invent. Its key end-use applications include a broad range of consumer electronics from personal computers, to television monitors, cellular phones, global positioning systems, automobile safety systems, and avionics.

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