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PV Nano Cell Announces Further Expansion into the U.S. Market

Versatile Sicrys™ silver and copper nano-metric digital inks will accelerate the adoption of printed electronics

MIGDAL HA'EMEK, Israel, May 28, 2015 /PRNewswire/ --[PV Nano Cell](#) (PVN) has announced that it is introducing its digital ink technology to the rapidly growing U.S. [printed electronics](#) (PE) market. PVN's [Sicrys™ family](#) of innovative, nanometric conductive inks is expected to speed the adoption of printed electronics (PE), which can bring intelligence to virtually any object by enabling the use of fast, inexpensive inkjet printing technologies that can be used on flexible substrates such as plastic, fabric or even paper.

The entry of Israel-based PV Nano Cell into the U.S. PE market follows the recent introduction of its digital ink technology to the U.S. solar photovoltaic (PV) market, where it is expected to accelerate the adoption of solar PV by achieving significant cost reductions in the production of silicon solar cells and by increasing solar cell efficiencies at a mass production scale.

The PE market is predicted to grow at a CAGR of 33.8 percent from 2014 to 2020, reaching \$40.2 billion by 2020, with more and more innovative applications moving toward commercialization, according to an [industry report](#). Conductive inks are critical to the growth of the PE industry because they enable the use of inkjet printing technologies, which are digital, faster, less expensive, simpler and more versatile than conventional printing technologies.

"We look forward to our Sicrys™ family of single-crystal nanometric silver conductive inks accelerating innovation in the rapidly growing field of printed electronics by enabling the increased adoption of low-cost, flexible inkjet printing technologies," said Fernando de la Vega, Ph.D., founder and CEO of PV Nano Cell. "Our Sicrys™ silver- and copper-based inks can be used in a range of industrial inkjet printing applications, including photovoltaics, printed circuit boards, RFID tags, sensors, smart cards, touch screens and advanced packaging."

The field of printed electronics is expected to revolutionize our daily lives by enabling the distribution of small, inexpensive, networked processing devices used for commonplace purposes at all scales throughout everyday life. These electronics are typically printed on films made of plastics. But until now the field has been held back by the lack of printing technologies that enable printing on flexible substrates.

Digital ink technologies enable printing on flexible substrates made of plastic or even paper. By contrast with traditional printing technologies, which use a master printing plate, non-touch digital technologies have no significant impact on the substrate, making the printing

process faster, more flexible and less expensive. Also, because digital inks can be sintered at low temperatures, they allow the use of the flexible, temperature-sensitive (but inexpensive) substrates.

Sicrys™ family of inks are the enablers for customized and 3D printed electronics. PVN is working with several OEMs to develop printed antenna prototypes using inkjet technology. Preliminary results show that costs can be reduced by as much as a half.

About PV Nano Cell

PV Nano Cell (PVN) has developed innovative conductive inks that will accelerate the adoption of solar photovoltaics (PV) and printed electronics (PE) through inkjet printing with inks made of nano-metric materials. PVN's Sicrys™ is a single-crystal, nano-metric silver conductive ink delivering enhanced performance. Sicrys™ is also available in copper-based form, delivering all of the product's properties and advantages with improved cost efficiency. Sicrys™ silver conductive inks are used all over the world in a range of industrial inkjet printing applications, including photovoltaics, printed circuit boards, antennas, RFID tags, sensors, smart cards, touchscreens and advanced packaging. For more information, please visit PVNanoCell.com.

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