

Imagine the Future

Power Plastic[®]

Solar energy represents the ultimate in green, renewable power. Konarka's break-through technology is transforming tomorrow's promise into an affordable manufacturing material for today.

With Power Plastic, energy independence will be very personal. Imagine a backpack that charges the laptop inside as you walk to work, a briefcase that powers your cell phone — or a handbag that recharges your camera. Imagine an office window that powers your workplace computers — and coffee makers. Imagine an umbrella that enables you to stay productive off the grid — while you enjoy a day at the beach.

Imagine a sun roof that powers your electronics while you drive, a car cover that recharges your electric car — or a tent that turns on your reading light and warms up your sleeping bag after the sun goes down.

With Konarka Power Plastic[®], the future is now!



“The more connected we become, and the greater the environmental pressures on our planet, the more we need the freedom to power our everyday devices, systems, and structures with their own integrated power source.”

— Howard Berke, Executive Chairman & Co-founder

About Power Plastic

Konarka Power Plastic is a photovoltaic material that captures both indoor and outdoor light and converts it into direct current (DC) electrical energy. This energy can be used immediately, stored for later use, or converted to other forms. Power Plastic can be applied to a limitless number of potential applications.

Konarka does not currently create consumer products; rather we make the material that others integrate into the products they make. In addition to our ongoing R&D activities, Konarka manufactures and sells both standard and custom Power Plastic panels to a wide variety of business development partners — innovative product developers who are taking advantage of Power Plastic's light weight, flexibility and versatility to turn everyday objects into energy sources.

“We have built a first-class research capability that attracts world-class talent — an impressive team of top scientists with the brainpower, experience and the passion to be the leader in thin film organic photovoltaic technology.”

— Alan J. Heeger, Ph.D., Chief Scientist & Co-founder

Available in standard and custom sizes, Konarka's Power Plastic takes light in and delivers power out. When integrated into products, this direct current (DC) electrical energy can be used immediately, stored for later use, or converted to other forms of energy.



About Our Applications

Power Plastic applications fall into four main categories:

- **Microelectronics**
- **Portable power**
- **Remote power**
- **Building integrated applications (BIPV)**

Some of the applications currently under development by our manufacturing partners include:

- Portable battery chargers — for charging laptops, cell phones and lanterns
- Microelectronics such as sensors, smart cards, remote starters
- Personal care devices such as electric trimmers and toothbrushes
- Outdoor gear such as tents and backpacks — which can power portable electronics and lighting
- Emergency power generators — which will enable police, military and emergency personnel to maintain vital communications
- Shade structures — which will power personal electronic devices anywhere the sun is shining
- Carport covers — which will trickle charge an electric car
- Window shades and integrated window panels — which will capture and convert solar energy for both office and residential use

“Energy independence and clean energy production is top of mind. The issue now is

how do we generate energy and protect the environment? How do we expand the use of solar technology to a world of new applications? This is at the core of Konarka's mission.”

— Rick Hess, President & Chief Executive Officer

About Our Manufacturing Capacity

At Konarka's headquarters in Lowell, Massachusetts, we have the in-house ability to produce material for use by our technical team and application partners for prototype testing and development.

Konarka has revitalized a former Polaroid plant in New Bedford, Massachusetts, focusing commercial production of our standard and custom Power Plastic panels where traditional film was once made.

Konarka's roll-to-roll process simplifies manufacturing scale-up and has significantly lower capital and labor costs than previous generations of solar cells. The material is non-toxic and environmentally friendly, and because it's manufactured at low temperatures, is less energy intensive than 1st or 2nd generation technologies.



◀ Konarka's 250,000 sq. ft. manufacturing facility in New Bedford, MA, began operations in 2009.

“We are printing and coating the plastic OPV (organic photovoltaic) product in a very clean, quality controlled environment, and the roll to roll process helps maximize our productivity and cost efficiencies.”

— Larry Weldon, Vice President of Manufacturing

▶ Devices like this Konarka-designed prototype mobile phone charger will use Power Plastic to power portable electronics.

About Our Founders

Konarka Technologies was founded in 2001 by a team of scientists at UMass Lowell, led by the late Dr. Sukant Tripathy, an internationally known materials scientist, and Provost and professor at UMass Lowell; Dr. Alan Heeger, a 2000 Nobel Laureate in Chemistry recognized for his pioneering research in the area of semi-conducting and metallic polymers; and Howard Berke, Konarka's Executive Chairman.

About Our Name

Co-founder Sukant Tripathy died tragically in December 2000, a few months before the company was officially formed. His vision lives on in the Konarka name – the 13th-century Sun Temple near the Orissan coast in Konark, India. The temple is dedicated to the sun god Surya and was one of Tripathy's favorite places.

A World of Investment

Konarka has attracted substantial investment from private investors throughout the world, as well as the support of federal and state governments (to date, over \$150 million in private capital and \$20 million in government research grants) as well as exciting collaborations with top solar technology scientists throughout the world.

Extensive Intellectual Property

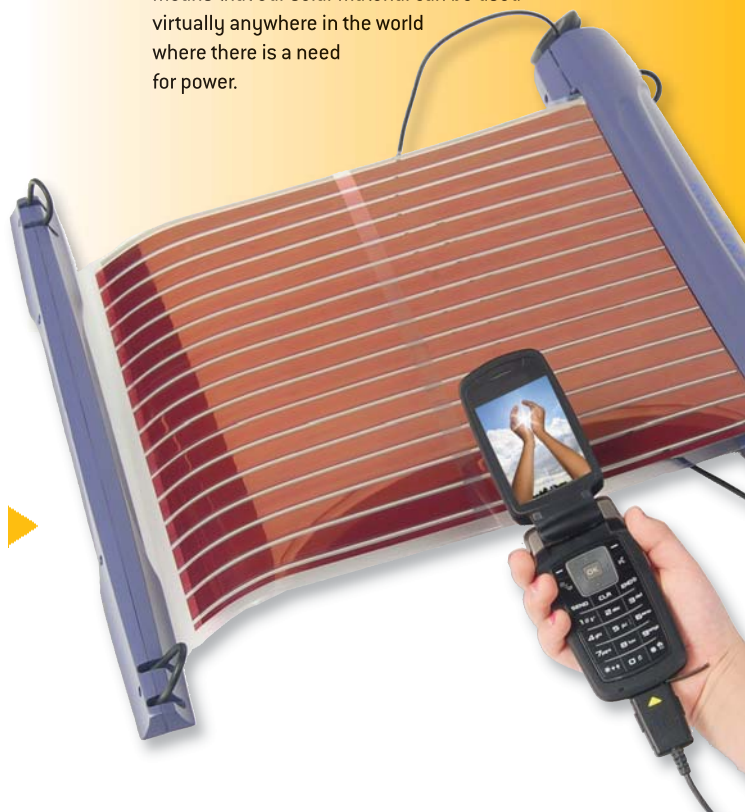
Konarka has the most comprehensive intellectual property portfolio of any 3rd generation solar company. Our portfolio includes over 350 patents and applications, covering all aspects of our unique technology, from materials to devices, processes, and applications.

Thin is In

Konarka's plastic-based photovoltaic cells are efficient across a much broader spectrum of light than traditional solar cells, allowing them to be used effectively indoors and outdoors.

Energy Independence

The simplicity and modularity of Konarka Power Plastic means that our solar material can be used virtually anywhere in the world where there is a need for power.



We invite you to learn more.

Please visit us at www.konarka.com to find out more about our:

- Technology — the science of Konarka Power Plastic
- Material Characteristics — manufacturing advantages and performance overview
- Products — standard and custom Power Plastic panels
- Applications — potential uses for Power Plastic

Manufacturers: Please visit our website for more information regarding Konarka Power Plastic, and to request a sample for your product application. An on-line survey will steer you in the right direction and give us the information we need to serve you best.

Consumers: Please visit our Consumer Information page for a list of information resources and manufacturers that can help you in your pursuit of energy independence.



Konarka: Creating An Energy Revolution

Konarka is the world's leading developer of polymer-based, organic photovoltaic (OPV) technology. Manufactured at low cost and low energy consumption, Konarka Power Plastic can be used in countless commercial, industrial, government and consumer applications.

Headquarters: Lowell, MA, USA

Manufacturing: New Bedford, MA, USA

R&D Facilities: Lowell, MA, USA; Linz, Austria; Nurnberg, Germany

Learn more at www.konarka.com

Or call +1-978-569-1400