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**SDN®**

SDN® Technology allows for low-cost, high-throughput nanocomposite multifunctional coatings deposition on almost any substrate.

## **PRESS RELEASE**

February 03, 2016  
For Immediate Release

### **Advenira's Novel Anti-icing Coating For Power Transmission Lines**

**SUNNYVALE, Calif. (February 03, 2016)** - Advenira Enterprises, Inc., the developer of Solution Derived Nanocomposite (SDN®) technology for environmentally friendly protective and optical coatings, announced a new, revolutionary application for its patented technology – anti-icing coating for power transmission lines. Far from obvious at the first glance (or even a second), this development is the result of Dr. Ryabova's ingenuity and vision that fueled nearly two years of R&D work. United States Patent Office has issued the patent # US9,206,506 B2 on December 8, 2015; international patents are pending.

Icing of overhead power lines is a major problem in many parts of the world. Ice and wet snow can accumulate on cables resulting in a significant additional weight, and causing power lines to become more susceptible to wind-induced oscillation. Sufficient accumulation can cause different cables contacting each other, either directly or through ice/wet snow build-up, as well as breaking, detachment from the supporting structures, and even collapses of transmission towers resulting in wide spread power interruptions.

This is a persistent problem in areas with Continental, Subarctic, Subtropical, as well as Polar climates that causes drastic loss of life quality issues, and costs hundreds of millions of dollars in damages and repairs, maintenance, and lost revenue. The current deicing approaches are limited to physically breaking the accumulated ice off the lines. However, these approaches are time consuming and very dangerous, particularly when icy conditions complicate access to the lines by air or ground.

Advenira is very excited about this invention, and has already begun working with several cable manufacturing companies on implementing it in the field.

#### **About Advenira Enterprises, Inc.**

Advenira Enterprises, Inc. is a California-based company located in the heart of Silicon Valley known for its novel Solution Derived Nanocomposite (SDN®) technology that allows for low-cost/high-throughput multifunctional coatings deposition on practically any type/shape/material substrate. The nanoscale protective and optical coatings are environmentally friendly. The company was founded as a means to address the world's increasing energy consumption and waste. Advenira commercializes its patented coatings technology in the Glass, Corrosion and other markets - spanning the world's most important industries - with dramatic advantages over traditional techniques. For more information, please visit [www.advenira.com](http://www.advenira.com).

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