

CANTEGA TECHNOLOGIES PATENT ANNOUNCEMENT



Protection of Electrical Power Transmission Systems

US Patent #7,834,269

Awarded Nov. 16, 2010

This patent claims a method and practice of spraying liquid polymer onto a custom mould to produce a dielectric cover that protects electrical equipment from animal contact.

Projected Market and Revenue Potential

In the USA, one of the electric utility industry's most serious problems is unplanned power faults and outages.

Power interruptions cost the American economy an estimated US\$150 billion per year.

Bird and animal caused outages represent about 12-20% of all outages, or about \$18 billion - \$30 billion dollars lost per year to the US economy alone. Worldwide losses are far higher.

As society increasingly relies on electricity-driven technology, power system reliability becomes more and more critical. And as the electricity transmission and distribution (T&D) grid ages and approaches its capacity limitations, system downtime becomes an ever more serious threat. There is therefore a strong incentive for electric utility companies to decrease or eliminate animal-caused outages, thereby increasing system up time and reliability.

Based on data published by utility companies, Cantega estimates the potential global market for wildlife outage prevention products to be **about \$22 billion to protect existing infrastructure and about \$360 million per year to protect new construction.**

Specific reasons for utility companies to seek solutions for animal-caused outages include the following :

- reducing the costs of maintaining or replacing damaged equipment One transformer damaged by animal contact may cost \$500,000 to replace.
- reducing the number and size of fines levied by Regulatory agencies as penalties for power interruptions
- guarding protected species such as raptors (birds of prey) from electrocution, in compliance with relatively new environmental standards that often carry stiff penalties for non-compliance

