



## Underground Cable Rejuvenation Doubles Its Life for Much Less than Replacement Cost

**Successful Practice Challenge:** Underground cables make up about 18% of U.S. power lines, according to the U.S. Energy Information Administration (EIA). The EIA also reported that nearly all new residential and commercial developments have underground electric service, but that underground power lines cost five to 10 times more than overhead wires, don't last as long, and cost more to replace.

What are utilities doing to extend the life of underground cable and add to customer reliability?

**Successful Practice Solution:** More and more utilities, including SRP, Duke Energy, Dayton Power & Light and hundreds of others have hired Novinium, a company that has proven its cable rejuvenation process saves utilities time and money.

Cable rejuvenation injects a healing and upgrading fluid into the strands of aging power cable to repair and extend its life. The rejuvenation fluid migrates into the conductor shield and insulation, strengthening the insulation. Over the last 27 years, more than 130 million feet of medium voltage power cable have been rejuvenated.

“By injecting our special fluid into existing cable from transformer to transformer, the useful life of cable that is 20, 30 or even more years old can be doubled,” explains Glen Bertini, Chief Executive Officer. “There are billions of feet of cable underground already and more is installed every day. The cost of replacement is astronomical, so we sought a way to extend cable life. Our process returns the existing cable installation to like-new condition. That means fewer faults, longer life and happy customers.”

“Our costs are two to 10 times less than replacement and our post-injection reliability is better than many companies experience with new installations,” continued Bertini. “The public doesn’t know who we are, or that we have just increased the underground cable life and their electric reliability in their neighborhood. That means we have done our job well. Safely, with minimum disturbance and great results.”

Novinium has a portfolio of services to support a utility’s underground cable reliability maintenance program. “Our strategies can help you manage your assets in the most capital-efficient manner while ensuring safety and reliability, which we know is every utility’s priority,” explains Bertini.

MEA wishes to thank Novinium for providing this Successful Practice. For more information, contact [Renee.Trail@novinium.com](mailto:Renee.Trail@novinium.com) or visit [Novinium.com](http://Novinium.com), where there are some excellent case studies and webinars based on real world experiences.