Southwire®
WE DELIVER POWER...RESPONSIBLY

# VOLATILE SUSTAINABILITY

INNOVATION//RELIABILITY//RESILIENCE//SUSTAINABILITY//

## CHALLENGE

Underground MV power cables experience water trees that age cables and decrease dielectric strength over time, increasing the risk of failure.

Utilities face a significant challenge – maintain reliable and consistent power while keeping costs and environmental impact low. As the electrical grid ages, cables are failing at rates faster than utilities are able replace them. And cable replacement is often time consuming, costly, and produces a large carbon footprint.

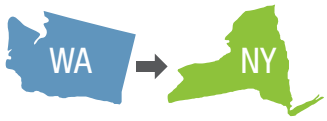
There is an alternative that can help alleviate all of these challenges! Southwire's Cable Rejuvenation Services. Our minimally invasive cable rejuvenation process can restore aged cables to like new condition.

## SOLUTION

Cable rejuvenation injects fluid into aged cable which diffuses water-treed insulation and restores dielectric strength.

Cable rejuvenation is a more sustainable solution than cable replacement.

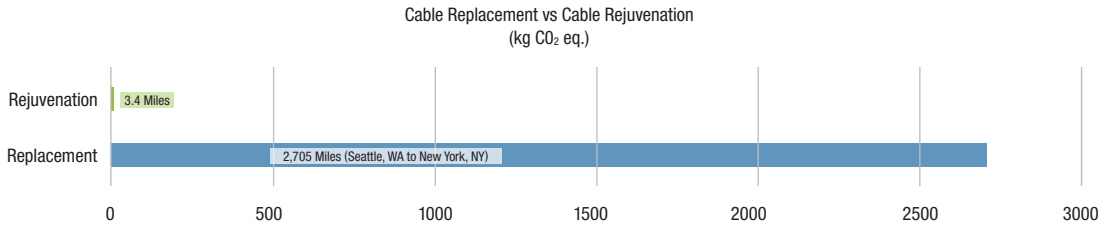
1) It can be accomplished with less digging and earth disruption
2) It extends the life of the cable currently in use by another 40 years
3) Carbon footprint reduced by 99.9% relative to cable replacement*




* Through Cable Rejuvenation's 40 year life extension, a 500 ft segment of URD cable will have a carbon footprint reduction relative to replacement that is equivalent to a cross continental trip from Seattle, WA to New York, NY.

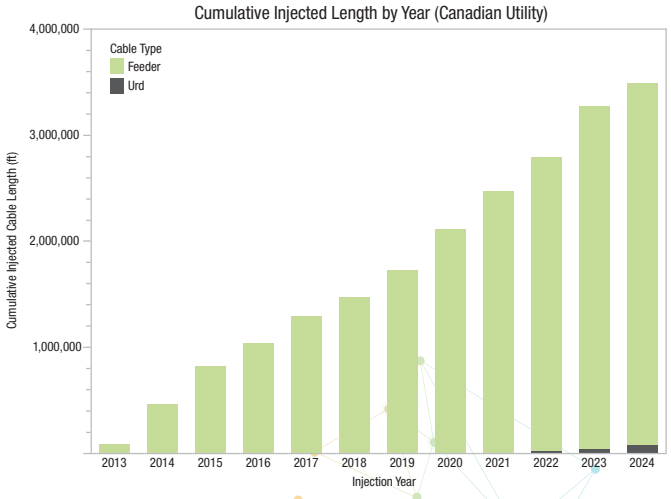
## BENEFITS OF CABLE REJUVENATION

- COST-EFFECTIVE
- TIME EFFICIENT
- END-USER FRIENDLY
- FEWER FAULTS
- SUSTAINABLE




## CASE STUDY

A large utility recently conducted a Life Cycle Analysis (LCA). Since the initiation of the Cable Rejuvenation program, it has addressed 3.4M feet of URD and 77,000 of feeder cable. The program has resulted in a carbon emission reduction equivalent to driving 21M fewer miles, or removing 1,830 cars from the road.




| | Global Warming Potential (GWP 2013-present) (kg $CO_2$ eq.) | | | |
|---|---|---|---|---|
| | Injection | Replacement | Reduction | % Reduction |
| URD | 9,164 | 7,393,363 | 7,384,199 | 99.9% |
| Feeder | 609 | 1,032,866 | 1,032,256 | 99.9% |
| All | 9,773 | 8,426,229 | 8,416,456 | 99.9% |

For more information on our Cable Rejuvenation Services contact
**cablerejuvenation@southwire.com**