

# MINIMIZE ENVIRONMENTAL AND COMMUNITY DISRUPTION

Due to environmental regulations and community opposition, it is often challenging for electric utilities to build new lines. Therefore, many utilities re-conductor existing lines to solve problems. This costly approach involves long-lead time materials and permits, and requires accessing every span along the entire length of a line. Smart Wires solutions negate the need for costly construction that is disruptive to consumers and the environment. Compared to the re-conducting alternative, these solutions are simpler to implement, more cost-effective and more time-efficient.



## CHALLENGE

- Increased loading levels would cause a 113% overload on a 69 kV line.
- The utility's alternative, upgrading the line's capacity and undergrounding the line, would require the utility to install 4 miles of underground cable in an area with strong anti-build sentiments at an estimated cost of \$24 to \$28 million.

## SOLUTION

- Smart Wires Power Guardians™ push power off the overloaded line to resolve the problem.
- A SmartBank™ deployment fits in available space adjacent to an existing substation.
- This solution resolves the known overload through 2034 and can easily be scaled or redeployed as required.

## IMPACT

- The Smart Wires solution saves \$19 to \$23 million compared to the alternative.
- With Smart Wires, the utility can limit the construction footprint to a small area inside an existing substation.
- The low-footprint SmartBank deployment minimizes community disturbance.