



Cost-Benefit of Life & Durability

Longest Life Case Study



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Summary

A Pacific island utility traditionally used wood and steel poles for distribution and transmission. Wood was used for lower initial cost; steel was used to resist brush fires. The utility evaluated the Net Present Value (NPV) benefit of RS poles versus other materials over a 20 year cost period to determine the most cost effective solution.

Problem

Both wood and steel deteriorate quickly in the local climate:

- ⑥ Wood is susceptible to termites and rot
- ⑥ Steel is susceptible to corrosion as a result of the humid coastal climate and airborne salt exposure

Conventional materials require regular maintenance and costly early replacement. The utility was spending a large portion of resources maintaining and replacing their grid frequently.

RS Pole Solution

- ⑥ No replacement costs - which was costing the utility \$15,000/pole.
- ⑥ No regular inspections - which was costing the utility \$175/pole.
- ⑥ Minimum 6-fold increase in service life.
- ⑥ NPV savings of RS poles vs. Wood for a 20 year cost period (based on typical yearly usage) is estimated at \$27,573,624.