

Cost Savings using Grid Enhancing Technology

Evergy is an electric utility provider operating in Kansas and Missouri, created by the merger of Kansas City Power and Light and Westar in 2019. The company serves approximately 1.7 million customers across residential, commercial, and industrial sectors. With a generating capacity of 16,000 megawatts, the company owns more than 10,100 miles of transmission lines and around 52,000 miles of distribution lines.



Evergy has made its process for selecting candidate corridors and technologies for reconductoring publicly accessible. The company demonstrates a forward-thinking approach to incorporating new technologies while seeking the best design solutions tailored to their system and geographical needs.



Project

In 2003, Evergy's predecessor, KCP&L, completed a live line reconductoring project using ACSS on a 32-mile line connecting the LaCygne power station. This project involved replacing the existing ACSR conductor with an ACSS/TW conductor. The added transmission capacity generated enough cost savings to cover the upgrade expenses within just **14 months**¹.

Bekaert's Solution

Bekaert's Advanced Steel Cores used in ACSS/TW/MA5 Conductors have the best in class Total Cost of Ownership. This allowed KCP&L to capture the return on investment in record time. Our White Paper that focuses on the highest **Capacity** conductors (link below) shows how this can be accomplished with our technological advances in steel.

[Read our WhitePaper](#)

Exemplary Projects

Year	Project Name	Project Type	Conductor Used	Voltage Level	Line Length	Project Purpose
2003	LaCygne to Stillwell	Live reductor	ACSS/TW	345 kV	32 miles	Capacity

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1: Idaho National Laboratory. (December 2023).

"Advanced Conductor Scan Report (Report No. INL/RPT-23-75873 R10)." Department of Energy. 23-50856_R10_-AdvConductorszScan ProjectReport-1.pdf (inl.gov)

