

RELIABLE POWER TESTING SE 2021 Volume 34, No. 1

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RELIABLE POWER TESTING SPECIAL EDITION

HIGH-CAPACITY, ENERGY-EFFICIENT
ACCC[®] CONDUCTOR CASE STUDY

ZENSOL NEW INSTRUMENT FOR
OLTC TESTING

EMPOWERING FUTURES IS FOR YOU

USING CONTINUOUS OFFLINE
INSULATION RESISTANCE
TESTING AND CBM TO INCREASE
PLANT SAFETY AND RELIABILITY

THE FIGHT AGAINST
ANIMAL-CAUSED POWER OUTAGES



High-Capacity, Energy-Efficient ACCC® Conductor Case Study

AEP ENERGIZED RECONDUCTOR PROJECT EXAMPLE

This project won EEI Transmission Project of the Year – 2016

Description: 240 circuit miles, 345 kV line, double bundle

Project: Replace 1,440 miles of ACSR conductor with ACCC

OBJECTIVES

- Improve reliability (reduced sag and corrosion)
- Increased capacity to serve growth (2X ACSR)
- Improve grid resilience using high-strength composite core
- Retain existing structures – to reduce capital costs and timeframe
- Eliminate down time with live line reconductoring

ADDITIONAL BENEFITS RECEIVED BY AEP

- Project completed eight months ahead of schedule
- Reduced line losses by 30%
- Saving \$15 million/yr. (300,000 MWh at \$50)

- Reducing CO2 emissions by ~200,000 metric tons per year (= 34,000 cars off the road)
- Freeing up ~34 MW of generation capacity
- Saves 3.5 billion gallons of clean filtered water per year (@12,000 gallons per MWh) (Thermal plants consume between 10,000 and 60,000 gallons of water per MWh)

ACCC CONDUCTOR SUMMARY

- Over 100,000 km of ACCC Conductor currently in service in 60 countries
- Over 900 projects completed, 50+ under construction, and 75+ in the queue
- 34 authorized manufacturing partners, worldwide
- 11 authorized ACCC Hardware manufacturers
- Outstanding engineering, installation support & product warrantee

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