



## Summary

<b>Industry:</b>	Power Gen - Fossil Fuels
<b>Application:</b>	Air Cooled Transformers
<b>Actual Saving:</b>	£50,000
<b>Payback Period:</b>	4 weeks



## ERIKS Epoxy VPI Improves Reliability of Air Cooled Transformers

### ISSUE

The transformers started to suffer from electrical failure causing risk to the business, loss of production, and releasing of toxic fumes from burning. There was also a potential fire risk with loss of an entire switch room.

Investigation with ERIKS found that this was due to the old transformers insulation aging and becoming porous. This allowed the transformers to absorb moisture leading to electrical failure and breakdown of the insulation.

### SOLUTION

ERIKS Epoxy Vacuum Pressure Impregnation "VPI" system has a proven track record of giving windings improved moisture protection and mechanical strength. This improved and resealed old porous windings thereby improving plant reliability. In addition the "VPI" system uses a solvent free resin which doesn't release anything into the atmosphere.

The failed transformers were repaired and then the Vacuum Pressure Impregnated "VPI" to rebond and reseat the old winding insulation. Also a plan commenced to remove the remaining at each shutdown opportunity and carry out preventative VPI treatment of these.

This has been successful in improving the condition and extending the life of the original transformers, allowing them to now maintain a good insulation resistance to moisture and significantly reducing risk of failure.

### OTHER BENEFITS

- Technical Know-How
- Cost Saving
- Reduced Lead Time

### FURTHER COMMENTS...

The customer was very happy with the outcome and transformer replacement saving of £50,000.

### MORE INFORMATION

#### ERIKS Industrial Services

Amber Way, Halesowen,  
West Midlands B62 8WG

**Tel: 0845 006 6000**

**Web: [www.eriks.co.uk](http://www.eriks.co.uk)**

know-how makes the difference

