

AIS

Power

Capability Statement



HV and EHV Specialists

Overview

We have a combined excess of 150 years High Voltage experience designing, installing, constructing, commissioning, operating and maintaining high voltage electrical infrastructure projects. With 130 staff and offices in Manila, New Zealand, Australia, UK, Middle East and Asia, we have a global reach and industry- leading experts in our ranks.

Our experience also covers wind energy (HV off-shore wind & HV onshore wind), energy, bio-energy, hydro energy and battery storage and STOR (Short Term Operating Reserve) generating technology at 11kV, 33kV, 66kV, 132kV and 400kV. We have built up a wealth of in house specialist resources from Project and Site Management, Electrical Design, Jointing to Overhead Transmission Line Builds.

With our 4 specialised departs, Design and Project Management, Overhead Works, Underground Works and Cable Jointing, we can provide support and solutions for the most complex HV challenges.



AIS Power

Overhead Distribution



We have a range of experience from streetlighting to helicopter stringing and pole installation.

We have multiple crews, plant and equipment to assist clients.

We have worked successfully with clients across New Zealand on voltages up to 66KV

“AIS have been engaged to work for Horizon Networks providing resourcing to us. The team we have had have always been reliable and professional while working on a variety of projects”

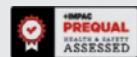
Keiron Robinson
Regional Manager
Horizon Networks



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Overhead Transmission

With up to 50 Internationally experienced Transmission Line mechanics based out of our Manila offices, we are able to mobilize expert resources no matter where you are in the globe. Our typical Line Mechanics will have worked in the UK, Middle East and Asia and will bring a wealth of experience to your project.

We have successfully delivered projects across the UK, Australia and the Middle East including some 500kV super projects

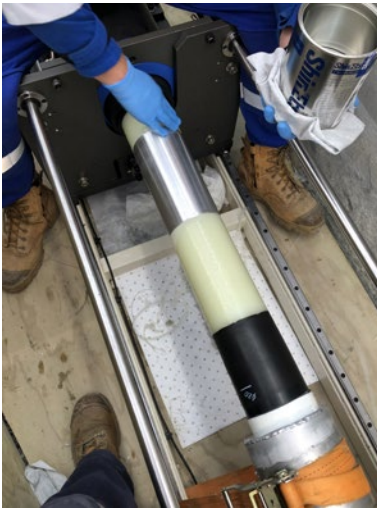


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Transmission Cable Jointing



With our origins from BICC our teams are trained to the highest industry leading standards, we hold the quality of our work at the forefront of everything we do. Having multiple teams of Jointers with international experience, we can provide highly trained and experienced personnel to provide assurance that the assets that we work on will last their design life and beyond.

Our clients will confirm that we are experts in our field and we can provide no nonsense advice and assistance that builds relationships that last.

We have manufacture installation certificates and multiple teams of certified Transmission Jointers, from 3M, Raychem, Prysmian, Pfisterer, Brugg and SUDKABLE. We have jointers approved on 400kV cable systems for both XLPE and oil filled cables.

Our list of clients and cables systems is extensive, some highlights are below

- National Grid UK 400kV XLPE and Oil
- Transpower NZ 220kV XLPE
- Orion NZ 66kV XLPE and Oil
- Vector NZ 110kVXLPE
- AUSGRID AUS 220kV XLPE
- General Cable USA 345kV
- Hermosillo Mexico 345kV XLPE
- General Cable Canada 145kV XLPE

Our in house crews are undertaking subdivisions, substations, cable installation, civil works, cable testing, Partial Discharge testing and cable maintenance.

We Own New Zealand's largest fleet of HV cable installation equipment.

Specialist HV Installation Equipment

Overhead and Underground Cable Winches from 1T-20T. Omac, Sahlins and Tesmec SEB Drum Trailers from 2T- 30T

Electric and Hydraulic Cable Pushers suitable for cables up to 150mm in diameter Overhead and Underground cable rollers Drum stands up to 20T Various other ancillary cable handling equipment such as rollers, duct brushes and foams, conduit rods, swivels and socks.

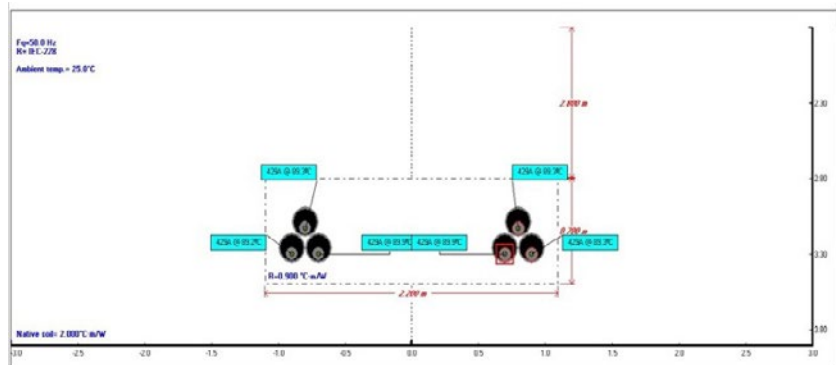


Design and Project Management



We have a team of electrical and civil designers, project engineers and managers to meet all your energy project needs

- Sub-station design
- Renewable energy schemes
- Sub-division design Overhead Design
- HV cable system design
- Fault Investigations and Diagnostics
- Asset Surveys
- Project Management Support
- On-site Quality Assurance



Key Personnel

John Perrott Director

Over 15 years' experience in HV Power projects up to 400Kv. As a Project Engineer with Balfour Beatty Utility Services UK, worked on power projects ranging from \$24 Million to \$200 Million involving trefoil flexible basement installation, cable troughing and installation of two 400kV 18 Km circuits in a Victorian tunnel. Assumed the responsibility for design and operations for the Sections 3 and 4 on \$90 Million NAaN 220 kV Project with Balfour Beatty New Zealand including 9km of tunnel works and 9km of street works buried ducted cables, using NKT Cables. Assumed responsibility as a Traction Power Project Manager for a \$44M electrification project. Extensive knowledge and experience in complete Design and Project Management support for sub-stations, HV cable designs systems, underground works.

Shaun Baker Director

30 years' experience in the field of super tension cable jointing on systems ranging from 11Kv through to 500Kv. Extensive knowledge of all types of cable and auxiliary systems used internationally utilising oil-filled, gas and XLPE cables. Experienced and competent in installing/maintaining and troubleshooting jointing systems from all the leading manufacturers predominantly BICC, Prysmian, Pfisterer, Brugg, SudKabel, Taihan and Nexans . Continuous training supported and improved this knowledge. Jointing supervisor status undertaken on many projects which include supervision of apprentices and ancillary staff plus liaison with project engineers and customers. Additionally trained in the technique of Leadburning used on submarine cables consolidated on major offshore projects in the UK, Norway, UAE and Indonesia.