

HVDC

Optimal transmission expertise, responsive expert team, can interface old and new technologies

It's the way we're wired



HVDC is both a challenging and specialist field. At PBA we offer our DC clients leading expertise spanning a wide variety of HVDC technologies.

Covering the entire HVDC system from thyristor stacks, filter bank circuit breakers and converter transformers through to the interface between the differing SCADA and control systems, PBA has a team with practical experience. So when you need hands-on consultancy services for new installs, compliance or emergency fault-finding, you can be reassured that with PBA you have professionals on the job.

An area of specialist expertise is optimising the efficiency and reliability of HVDC transmission control in New Zealand. We can also interface responsive systems across eras and manufacturers, ensuring that old and new technologies run smoothly together.

PBA offers and continues to invest in the most highly factory-trained HVDC team available in New Zealand, with hands-on offshore training. This team delivers a service that is flexible and highly responsive because we are based at both ends of the New Zealand HVDC link. We complement this with a highly mobile service as required.

PBA has worked successfully on New Zealand's signature HVDC projects, and when it comes to experienced professionals with the right hardware on hand PBA is the 'go to' expert for HVDC.

PBA's HVDC clients benefit from:

- A highly professional on-call team who work to a high standard
- Extensive hands-on experience
- Specialist expertise in optimising HVDC transmission control
- Our ability to interface old and new technologies
- Our in-depth understanding of technical, safety and health issues
- Our responsive mobile service



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HVDC services

PBA's HVDC specialist services are grounded in leading experience across the full range of HVDC technologies, including the management of reactive power plant, condensers and SVCs.

Our services include:

- Emergency fault-finding on site
- Compliance with industry standards
- Interfacing old and new technologies
- Project management consultancy services for new installations and commissioning
- Decommissioning and removing redundant control systems without affecting operations/transmission

Each of these services is supported by the full suite of world-class testing equipment.

Enjoy peace of mind

PBA's clients enjoy the peace of mind that comes from working with a provider strongly focused on full regulatory compliance and adherence to technical standards.

We also tick all the other boxes that give our clients the reassurance they need:

- ✓ Proactive minimisation of health and safety and environmental risks
- ✓ Efficient, cost-effective, transparent solutions that optimise smooth operations and minimise plant downtime and cost
- ✓ Working with people who bring leading industry accreditations and proven results, and who speak our clients' language

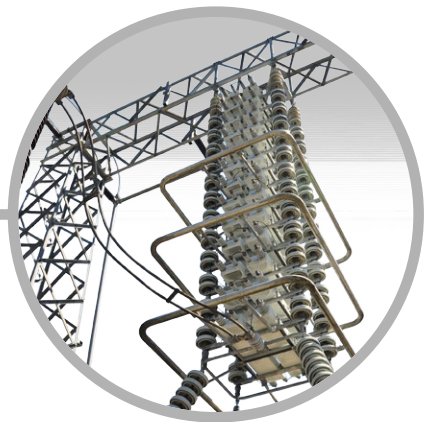
PBA's knowledge spans the high voltage system

PBA brings leading practical, in-depth expertise, spanning all aspects of the high-voltage system; going beyond compliance and proactively developing innovative risk management and mitigation solutions for our clients.

In the electricity industry PBA covers the whole spectrum, from major projects to specialist services and support solutions. The breadth and depth of applied high-voltage expertise that we offer is unique.

This leadership position is underpinned by our:

- People's care and commitment to excellence and quality outcomes
- People's ability to bridge management/procurement and technical/field personnel
- Technical innovation, impeccable professional standards and industry connections
- Agile and mobile services, superior support and long-run commitment.



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