



CORROSION SERVICES

Corrosion analysis services within the recreational and commercial marine environment

About



Logix Group is built on over 50 years of combined experience in marine electrolytic, galvanic, environmental corrosion and protection.

We are a creative, problem-solving company for the marine, recreational vehicle and off-grid power system industries. Our clients include commercial and recreational vessel owners and designers, marinas and yacht clubs throughout Australasia.

Logix Consulting specialises in building creative solutions that honour each project's distinct features and are committed to integrating multiple aspects of design and engineering.

With experience across a diverse range of vessels and marinas, our

systematic approach ensures an outcome based on a holistic delivery of solutions.

We have the proven ability to efficiently deliver outcomes in the diagnosis of complex corrosion issues from multiple sources found in the marine environment including electrolytic, galvanic, environmental and protection failures.

We have demonstrated experience across both large private enterprise and government agencies throughout Australia.

Central to the aim of improving current practices through supporting innovation and practical solutions to government, OEM and trade, Logix Consulting has a strong focus on training and education through providing unique layered technical solutions backed up by national support and service.

Corrosion

With experience across a diverse range of vessels and marinas, our systematic approach ensures an outcome based on a holistic delivery of solutions.

Logix Consulting has the proven ability to efficiently deliver outcomes in the prevention and diagnosis of complex corrosion issues from multiple sources found in the marine environment including electrolytic, galvanic, environmental and protection failures.

Diagnostic Services



Recreational

- Electrical stray current analysis
- Electrical system design faults
- Cathodic protection analysis
- Corrosion identification
- Premature coating failure assessment
- Rectification and remediation
- Fault tracing
- Maintenance and testing schedules



Commercial

- Electrically induced corrosion
- Premature coating failures
- Corrosion identification
- Rectification and remediation
- Electrical fault identification
- Pre-build and end design assessment
- Maintenance and testing schedules
- Fault tracing



Marinas

- Marina surveys
- Environmental surveys
- Shore power related issues
- Australian Standards compliance
- Maintenance and testing schedules



Cathodic Protection Design



Anodes

- Correct anode selection and placement
- Environmental considerations
- Fit for purpose/use



Bonding system

- Maximise efficiencies of anodes
- Redundancy and longevity
- Correct fittings and fixtures
- Safety and compliance



Safety and compliance

- Australian Standard compliance
- ABYC and NSCV compliance
- Holistic considerations for entire AC/DC installation

Corrosion

Our approach

- 1 Understand** Develop a complete understanding of existing systems and strategic and operational parameters to identify project requirements.
- 2 Methodology** Present a clear methodology of the assessment process, expected outcomes and scope of the project.
- 3 Analysis** Undertake cathodic protection analysis and individual circuit investigation of vessels.
- 4 Fault identification** Identify and trace all electronic faults within engines, generators and vessel charging systems.
- 5 Rectification** Immediate rectification will be undertaken where possible.
- 6 Recommendations** A comprehensive report is provided detailing the outcomes of the investigation process including specific recommendations.

The level of satisfaction from our clients is reflected in the increasing number of return business and client referrals. Our clients include commercial and recreational vessel owners and designers, marinas and yacht clubs.

