



Steel Structure Asset Management Solutions

Aging Steel Infrastructure

Once thought to be permanent structures free from concerns, steel towers and poles have demonstrated that they do indeed degrade over time as a result of corrosion and mechanical damage.

Logsys Power Services corrosion management solutions are designed to help predict, assess, restore, and prevent corrosion on steel towers, poles, anchors, and other steel structures and their foundations. Our proven, programmatic approaches provide accurate assessments, effective mitigation methods, and structural restoration solutions to help electric utilities:

- ✓ Extend the service life of steel towers and poles, which can qualify the program as a capital expenditure
- ✓ Improve system reliability
- ✓ Reduce emergency and unscheduled O&M costs
- ✓ Prevent risk and cost of failure, or premature replacement of structures
- ✓ Avoid service interruptions
- ✓ Lower ratepayer costs by reducing line replacements

Logsys Power Services utilizes proprietary technologies and a highly-skilled workforce to cost-effectively extend the life of a utility's steel structures with the following services:

- Steel assessment
- Concrete assessment
- Comprehensive overhead, groundline, and below-grade assessment
- Coatings and cathodic protection
- Engineered restoration design and installation



Corrosion Evaluation & Analysis

Logsys Power Services is an Osmose company which has more than a decade of experience developing engineering evaluation techniques utilizing specialized technology for predictive health risk assessments and assessment methodologies specific to steel structures.

- ✓ Ultrasonic thickness measurements
- ✓ Site environmental evaluation for corrosion potential
- ✓ Non-destructive evaluation (NDE) of concrete, steel structures, and anchors



Corrosion Risk Modeling

Using Osmolytics™, an application which leverages environmental databases and data from over 125,000 steel structure inspections, structure owners can also obtain valuable predictive modeling results designed to aid in the decision-making process.

Restoration Design & Installation

Logsys Power Services provides turnkey standard solutions for damaged and deteriorated steel towers and poles at a fraction of the cost of replacement. Whether the structure is directly-buried, on concrete foundations, or in water, Logsys Power Services restoration designs help restore strength and, in many cases, can increase capacity if greater strength is required.



Life Extension with Cathodic Protection & Coatings

By applying corrosion mitigation to structures, such as protective coatings and cathodic protection, Logsys Power Services can help extend the useful service life of steel structures. Logsys Power Services provides turnkey mitigation design and installation for various types of transmission structures and environmental conditions.



- ✓ Application of coatings below grade is the primary method of protection for most buried steel structures
- ✓ Cathodic protection systems are most often used as a secondary form of mitigation by attaching sacrificial anodes to steel structures and placing them in the same soil, providing an additional layer of corrosion mitigation

To contact your local Logsys Power Services professional, call (08) 9300 2950, or email enquiries@logsys.com.au.