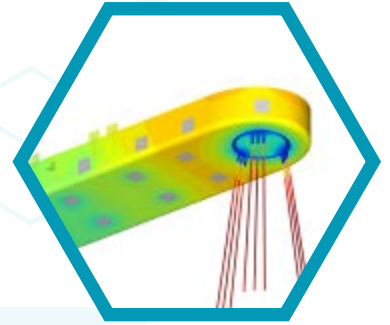


# CORROSION AND CP

BEASY CP software enables corrosion engineers to quickly develop full 3D virtual prototypes of Cathodic Protection systems to predict the degree of corrosion control provided by the CP system. Both sacrificial and ICCP systems can be modelled in applications such as marine and offshore structures, ships, underground structures & piping, onshore and offshore pipelines, and storage tanks. In practice most structures protected by CP systems can be accurately modelled.



## APPLICATIONS AND BENEFITS

- Validation of CP designs to determine protection potential provided, corrosion rates, and service life
- Optimisation of designs by varying parameters such as anode location, reference electrode location and number of anodes, thus reducing cost of design and installation particularly for retrofits and life extensions.
- Investigations of interference effects caused by nearby CP systems, electrical sources, docks, pipelines or other metallic structures
- Assessment of different operating environments on the effectiveness of the CP system
- Evaluation of the performance of the CP system under various damage scenarios
- Evaluation of electrical connections/isolations and attenuations on CP system performance
- Design and optimisation of surveys to improve quality of information and reduce costs
- Easy visualisation of protection potentials and identification of problem areas
- Clear visualisation of the design and of the protection provided over the life of the structure, thus providing easily understandable verification to clients and design authorities using pictures rather than words and endless tables of results
- Ability to understand and interpret field survey data. Models can also be used to simulate and identify the root causes of anomalies in survey data



## LEADERS IN CORROSION MANAGEMENT

Corrosion is a time-dependent threat, meaning it can worsen or spread as the years go by, increasing the risk to integrity. Simulation can provide an insight into what your assets condition will be in one, five, or even 10 years from now. That enables better maintenance and repair planning and resource allocation, now and down the road.

Predict how a CP system will perform even for the most complex situations. It can provide quantitative information on the protection potentials achieved and the life of the system, thus reducing the risk of systems not meeting the design goals and enabling future management of assets to be planned effectively. Companies can realise huge savings through proactive integrity management that not only reduces risk but also extends the working life of older facilities.

