



ADVANCED ENGINEERING SERVICES

FOR ENERGY & INFRASTRUCTURE

Over three decades experience & expertise, undertaking linear and non-linear Finite Element Analyses of Structural & Mechanical Systems and Components , for static and dynamic loads.

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The Home of **Innovation**



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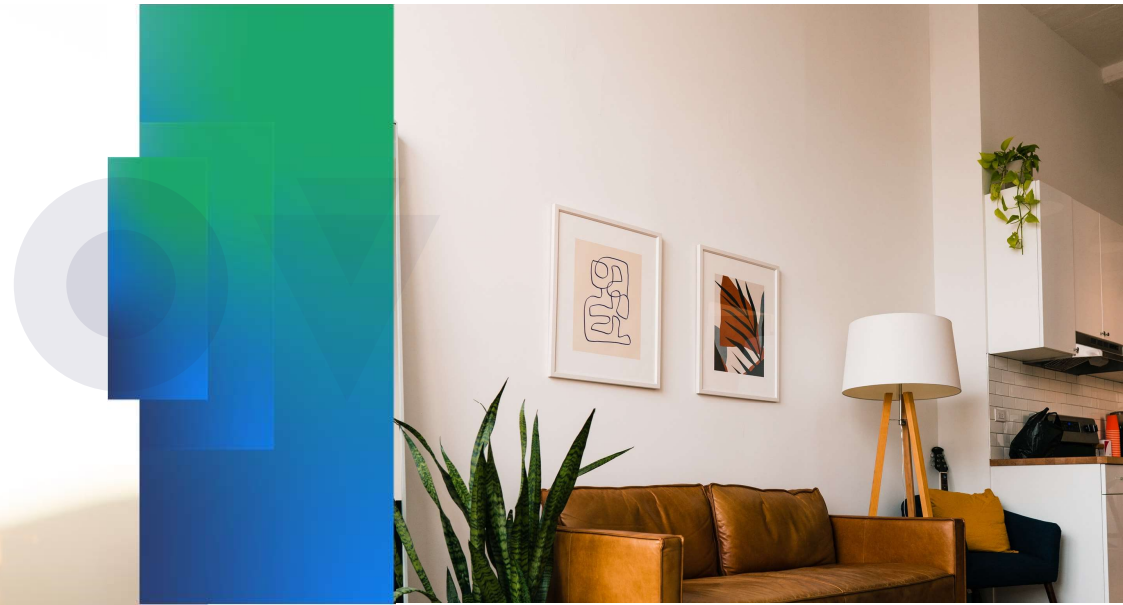


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SERVICES & EXPERTISE

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Static and Dynamic linear and non-linear finite element analyses of:

CONCRETE STRUCTURES
STEEL STRUCTURES
COMPOSITE STRUCTURES
FIBRE REINFORCED PLASTIC



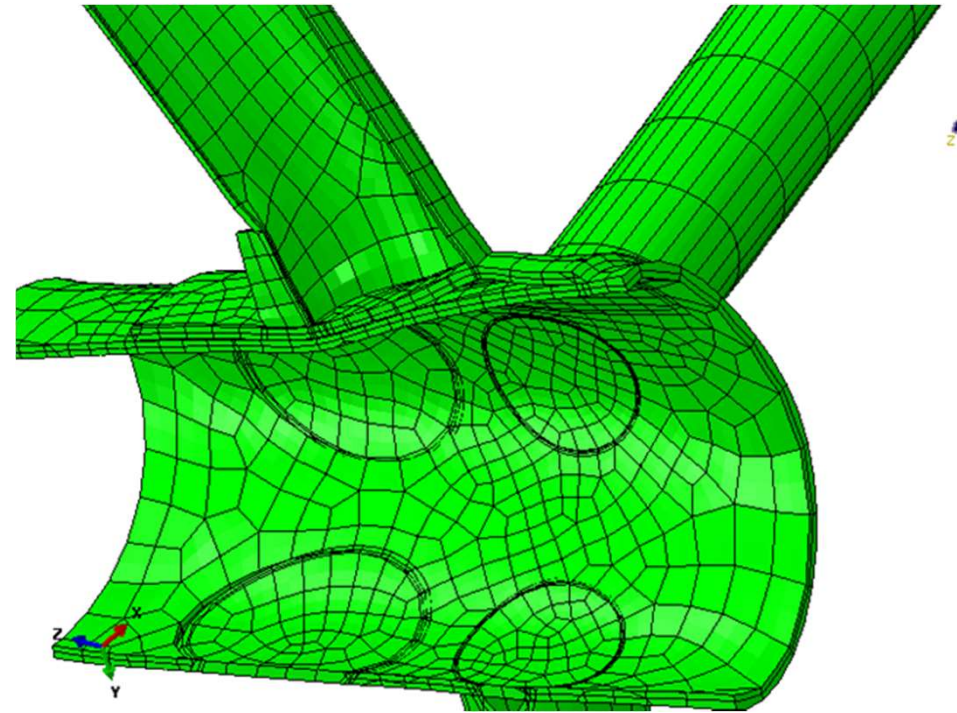
TARGET CLIENTS

Onshore & Offshore Wind Energy Developers
Oil and Gas Companies
Manufacturing Companies
Infrastructure Owners and Management Companies



PROJECT EXPERIENCE

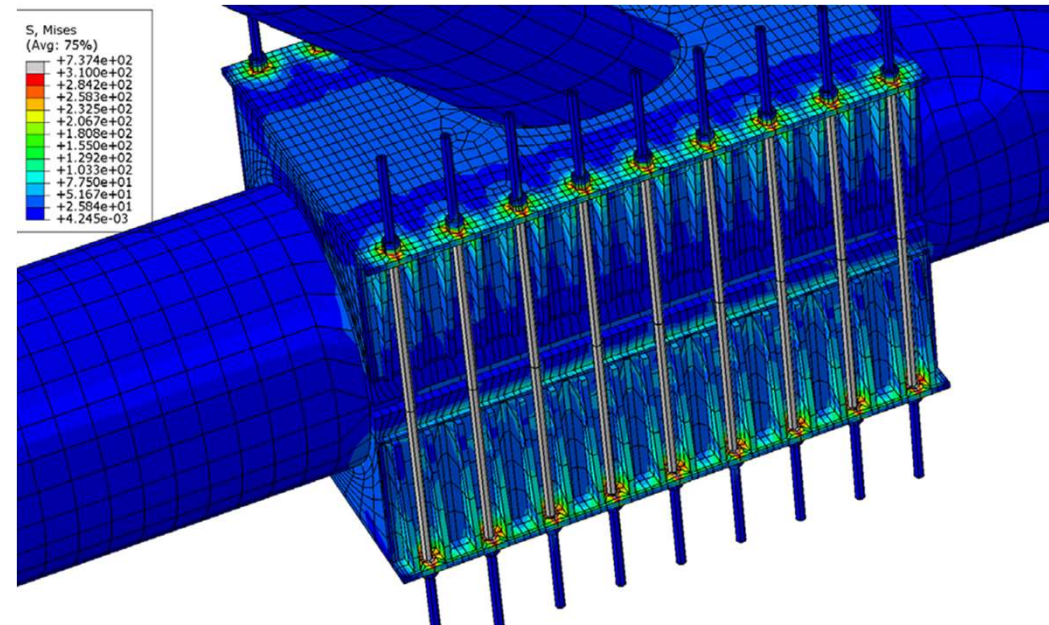
- Analyses of tubular joints for offshore structures, including wind turbine generator substructures
- Geometric non-linear analysis of single buoy mooring, including chain-soil interaction.
- Analysis of the behaviour of lattice systems, such as offshore platforms and telecommunication towers.
- Analysis and design of strengthening schemes for jacket leg tubular joints, using doubler plates





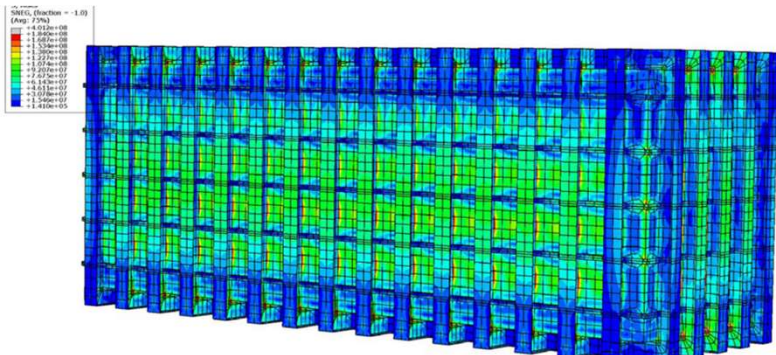
PROJECT EXPERIENCE

- Boat impact analysis of tubular members
- Analysis of Stressed Mechanical Bolted Clamps including non-linear contact modelling
- Dynamic explicit analysis and design of saddle for jacket upending, including contact modelling and simulation.
- Finite element analyses of submarine aft-end shaft





PROJECT EXPERIENCE



- Analyses and design of damaged (corroded, pitting, dented) pipelines and repair with fibre-reinforced plastics
- Buckling of caisson tubular members
- Modelling and analyses of fibre-reinforced plastics (including delamination) for new designs, strengthening, modification, and repair (SMR) schemes.
- Analysis and design of pressure vessels (storage tanks)
- Thermal stress analysis of reinforced concrete liquid storage tank



GET IN TOUCH

Are you looking to optimise new designs of structures/ systems or undertake assessment of existing structures, requiring application of advanced numerical modelling and simulation techniques such as **ABAQUS** for Linear or Nonlinear Finite Element Analysis?

Please contact us for discussion or to obtain a quote.



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