

# GROUNDLINE

# STRUCTURE DESIGN

## WHAT WE DO

## STRUCTURE DESIGN

Groundline's Structure Design service delivers robust, optimised solutions for transmission infrastructure using advanced tools like the Power Line Systems suite and SPACE GASS. We design and optimise all structure types used in overhead line infrastructure; lattice towers, guyed and self-supporting poles, and everything in between, with our structural engineers working within integrated project teams to ensure structural and electrical design assumptions are aligned from the outset, in accordance with industry standards and asset owner requirements.

## OUR SERVICES

- Lattice tower design and optimisation, guyed and self-supporting, new designs and modifications
- Tower strengthening and detailed connection design, including fabrication drawings
- Pole structure design; wood, steel, concrete, composite, fibre-reinforced, and stobie, including multi-pole configurations
- Structural loading in accordance with industry standards and asset owner requirements
- Load trees, load charts, and structural geometry design
- Structure procurement specifications, including outlines, geometry, and attachment plate design
- Full-scale structure prototyping and load testing

## Let's Get to Work.



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