Award Winning Product Innovation & Design

//Composite Crossarm Solutions
Research and Design Process

Extensive Engineering Design & Modelling
Utilising the latest software for design and 3D/FE modelling of insulators and fittings or interface components. Global modelling of dynamic overhead line environmental and security load cases.

Production Feasibility
Solution generation based on delivering the optimum solution to meet the design requirements of the application.

Prototype Development & Concept Testing /Proving
Proving the design calculations and concepts through extensive testing and verification based upon experience.

Production
Apply the highest technology to deliver superior insulator solutions that exceed expectations in all aspects.

Full Scale Mechanical & Electrical Testing
Covering both the single units and complete insulator assemblies in accordance with national specifications and international standards.

Delivery & Support
Full on site project support and guidance in particular for handling and installation of the insulator units.

Totally adaptable solutions for the increased utilisation of all transmission line assets.
Transmission system operator benefits of installing Composite Crossarms on existing and new assets

**Upgrading**
The ability to increase the voltage of existing circuits and thus increase the power transfer capacity.

**Uprating**
The increased ground clearance of existing profiles results in the ability to potentially increase the operating temperature of conductors hence increase ampacity.

**Existing Infringement**
The increased ground clearance possible may be the answer to any statutory infringements and avoid the cost of steel tower replacement or heightening.

**Improved Pollution Performance**
Composite crossarm insulators can be designed with enhanced creepage distances accordingly to overcome any specific pollution problem that is evident.

**Reduced Height Structures**
The use of composite crossarms on new transmission lines will enable the significant height reduction of conventional structures and help to improve the overall aesthetics and indeed acceptability of the overhead line.

www.alliedinsulators.com