FCE CONSULTANTS

FIBREGLASS ENGINEERING SERVICES

Strength in every fibre

Driving the use of fibre-reinforced composites across Australia, New Zealand and the Pacific with engineering, technical and commercial support for composite and construction projects.

ENGINEERING DESIGN

INSPECTION SERVICES

BUSINESS CONSULTING

FORENSIC ENGINEERING

With over 30 years working with composites, Tony Davis specialises in structural design, condition assessment, NDT inspection, materials testing and forensic investigation. His experience spans power (thermal/geothermal), water, wastewater, mining, fertiliser, irrigation and council infrastructure sectors.

From concept and design to in-service inspection, repair support and forensic engineering, FCE Consultants deliver end-to-end composite solutions.

Contact Tony or scan the code to find out more.

+61 45 262 8695 | info@fceconsultants.com.au | **fceconsultants.com.au**

Industries we work with

TRADITIONAL POWER STATIONS

Coal and gas fired power stations utilise fibreglass for cooling tower complete structures, cooling water systems and chemical storage.

GEOTHERMAL POWER STATIONS

Fibreglass is widely used for durability and longevity throughout the power station including cooling water and condensate piping systems, gas extraction system ducting and for the cooling tower pultruded structures, fans and fan cowls as well as cladding systems and handrails.

FERTILISER MANUFACTURING

Fertiliser manufacturers use fibreglass for chemical piping systems, chemical storage tanks and for process air containment covers, extraction ducting, fans and for the scrubber systems to remove particulates and chemicals.

PULP AND PAPER PROCESSING

Fibreglass is widely used in chemical and thermo-mechanical pulp processing and in paper mills for piping systems, chemical storage tanks and air pollution control systems.

WASTEWATER TREATMENT PLANTS

FRP/GRP offers longevity and durability in wastewater treatment plants. Piping systems, odour control covers and ducting systems, chemical storage tanks and underground manholes and tanks all utilise FRP.

WATER DESALINATION PLANTS

Fibreglass is a material of choice for desalination plant projects where inlet saltwater, brine solutions and demineralised water are aggressive on metals.

MINING PROCESSING PLANTS

FRP is used for corrosion resistance in a wide range of mineral ore processing operations including nickel, copper, gold and rare earth minerals - used in fibreglass pipe, tanks and process vessels throughout extraction.

ELECTRICITY TRANSMISSION

Fibreglass pultrusions, are gaining popularity in power transmission worldwide, with use for cross arms, isolation items and for power poles themselves instead of timber, steel or concrete materials.

TELECOMMUNICATIONS

With low density high transmissivity, fibreglass is useful for protection of telecom equipment. FRP radomes and covers are proven in the harshest environments.

AUTOMOTIVE FUEL DISTRIBUTION

Fibreglass underground fuel tanks have been proven in service since the 1960's and are the product of choice across USA, Canada, Australia and New Zealand, as well as many other regions of the world. The double wall tanks with continuous leak monitoring systems enable safe storage of fuel underground.

WIND POWER GENERATION

Fibreglass wind turbine blades now exceed 100m in length and 2-3MW turbines are commonplace in offshore and onshore windfarms globally.

HYDROPOWER GENERATION

Fibreglass penstocks have been proven in service for nearing 50 years with FRP suitable for pressure up to 32bar, continuous operating pressure, long term.

FCE Consultants will support your projects with specialist composite design and inspection expertise. Contact Tony today.

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