

Design & Build of Fibre Optic Networks

Network Design Group Limited was founded on the 25th May 2010 by Kirsten Diack and Mark Doyle. The company's focus has always been based on providing independent consultancy services in the telecommunications and energy sector in New Zealand and the Pacific Islands.

Network Design Group (NDG) has, since inception, provided expertise to a range of companies on network strategy, design, product design and specifications, product sourcing, product training and effective implementation and deployment strategies for communications networking technologies that meets both timeframe and budgetary constraints.

Our design and build consultancy services focus on both fibre optic and wireless networks and associated infrastructure (including data centres / handover facilities, cable landing sites, etc) specifically deployed in the telecommunication sectors, but due to demand this has extended to electricity projects and product sourcing and design through our brand Optistar™.

We get the best results, when we get involved early in the specification and design of both telecommunications and power solutions, working with both the customers, a range of international suppliers and then the Local Authorities (both District and Regional Councils) and Government Departments to ensure the necessary consents and approvals are obtained. The key to this process is communication, and we ensure that all parties are informed of the process, each party gets to understand the others perspectives, and restrictions and what outcomes are expected, through effective scoping, documentation and dialogue.

NDG has a strong contact base with other consultants and manufacturers / suppliers (both in New Zealand and internationally) in a range of sectors that help facilitate supply of materials, construction, and implementation.

A selection of some of our projects are listed below

Network Design

- Fibre cable extension and delivery to Low Earth Orbit Debris tracking Radar
- Metropolitan fibre ring in Alexandra
- RFP Response and design of a 90km extension of Transpower TransGo fibre network in central Otago.
- Large Commercial / Residential Resort Development, data cabling (includes fibre to the premises, in building cabling, expansion of existing telecommunications services) for a Chinese Investor Group investing in a golf resort in Kerikeri.
- Fibre cable specifications, design principles and supplier testing methodology for North Island Electricity Lines company establishing Aerial Fibre network.
- Managing a small design team producing the UFB (fibre to the home) Design for Timaru, including all responses to Crown Fibre Holdings

Consenting

- Resource Consent Application, and associated Assessment of Environmental Impact for a diverse range of activities including; Low Earth Orbit Debris Tracking Radar, Data center, Dog daycare and Kennels in residential area, includes Noise Assessment (in conjunction with an Acoustic Engineering Firm).
- Resource Consent Application, and associated Assessment of Environmental Impact, and preparation for Environment Court Hearing for 20 house Residential Sub-division. Includes liaison with Civil Engineering, Hydrologists and other Specialists.
- Building Consent (Project Managing application with a civil Engineering Firm) - Low Earth Orbit Debris Tracking Radar.
- Building Consent (Project Managing application with two Engineering firms) for data center utilizing Surefoot foundation system.
- Corridor Access Requests - Direct Bury (or ducted) Fibre Optic cable Builds in roading corridor (NZTA and District Council Applications)

Project Management

- Low Earth Orbit Debris Tracking Radar consenting, fabrication and construction supervision, and inspection.
- Fibre Optic cable builds (both direct buried and aerial fibre, for lines companies in New Zealand and the pacific Islands), includes quality control, inspection selection of contractors and supervision of build.
- UFB Project Management in Ashburton and Timaru.
- Data Cabling of Television studio

Product Design

- In conjunction with RX Plastics - Fibre Optic Cable Pit with space for hanging of fibre coils and FOSC.
- In conjunction with a Korean Manufacturer - assorted fibre optic cables
- In conjunction with a Korean Manufacturer - Hybrid Fibre optic cable for building installation.
- Packaging design for Structured cabling and Hybrid cabling in New Zealand wholesale market.

For Further Information
