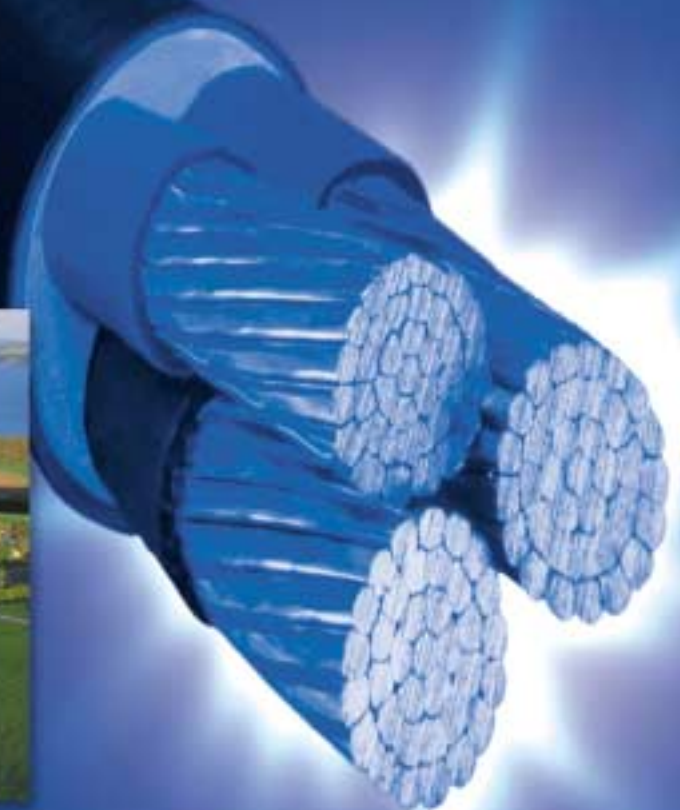
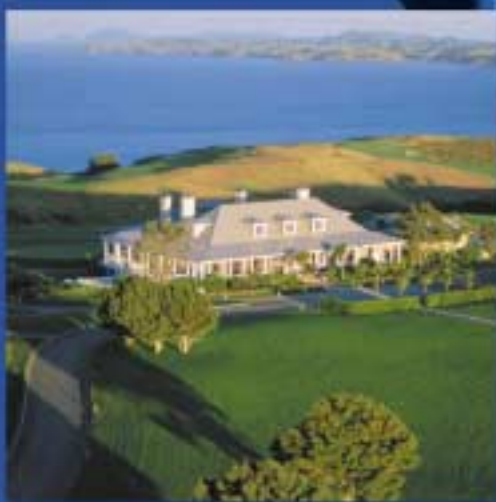


# TOP ENERGY®

*Te Puna Hihiko*

CONTRACTING SERVICES





# Kauri Cliffs

Rated by international Golf Magazine as the 49th best golf course in the world, Kauri Cliffs is an 18-hole Championship Golf Course and International Resort Hotel, set on the hills near Matauri Bay, Northland.

The Resort, which includes a magnificent Lodge building and individual Cottage accommodation, enjoys spectacular 180-degree views of the Pacific Ocean, Cavalli Island and Cape Brett.

In 1997 Top Energy met with both Water Consultants and the Director of Waiau Bay Farm and was provided the brief to scope the power supply for the proposed golf course and resort development. At this time the land remained operational as a farm with several isolated power supplies spread over the property. The timing of the project was critical with large pumps required at the onset to fill a newly constructed storage lake for the purpose of irrigating the new course fairways.



The solution selected included a comprehensive design and build operation driven by the client's requirements and commenced in January 1998. The reticulation was completed on time and within budget.

In its 2003 annual reader survey, Andrew Harper's Hideaway Report named Kauri Cliffs the 10th best International Resort Hotel and the 3rd best International Resort Hideaway in the world.

# Cape Kidnappers

Continuing in the tradition of building world-class golf courses with spectacular ocean views, the Cape Kidnappers Golf Course near Hastings has recently been established by the same developer as Kauri Cliffs. On the basis of the successful completion of the Kauri Cliffs project Top Energy was contracted to reticulate the Cape Kidnappers development.

Designed by Tom Doak and built on a 2,428 hectre sheep farm on the central North Island's east coast, Cape Kidnappers feels like an old-style Scottish golf course, blending in with the rolling coastal farmland.

Bordering a world-famous Gannet colony, the course includes a luxurious Clubhouse, inspired in design by the ubiquitous New Zealand farm wool shed. Players and visitors can relax on leather couches and enjoy an open fire and sweeping views of the course and the Pacific Ocean. Facilities also include a dining room, bar and golfing amenities.

Like Kauri Cliffs, the Cape Kidnappers development featured tight timeline, budgetary and environmentally aesthetic requirements. The final solution required the power supply to be installed through dry creek beds and required approximately 10km of underground reticulation.



# Services Provided

## Sub-division and Resort Reticulation Design and Construction

Contracting Services has significant skill and experience in sub-division and resort reticulation and offers clients a complete design and build solution, incorporating innovative and flexible project management, materials procurement and construction techniques.

Top Energy has a dedicated, experienced and skilled in-house design and draughting team offering innovative solutions to enhance project success. Design staff are fully aware of and have access to, the latest national and international standards. Predominant draughting standards are IEC 617 and NZS 1102. The team also has access to in-house protection, SCADA and IT specialists for the integration of remote control functionality if required.

In addition to providing full design services where required, Contracting Services will obtain all necessary permissions and approvals from Network owners, Local Authorities and other service providers to minimise the inconvenience to our clients and to enable the smooth completion of construction works.

## High and Low Voltage Underground and Overhead Reticulation

Contracting Services provides infrastructure asset owners with full design, construction and maintenance services for both underground and overhead reticulation (ranging up to 33,000-volt capacity). Top Energy also offers a business unit devoted to providing technical solutions with respect to sub station servicing, protection testing and construction.



## Live-line Maintenance

Contracting Services has 5 Live-line equipped trucks and 25 Line Engineers who are specifically trained to work on electricity networks while they are 'live'. This investment in equipment and staff training has had a dramatic effect in reducing the average number of minutes power consumers connected to Top Energy's network have been without power due to planned line maintenance.



## Vegetation Control

Contracting Services has a highly skilled and experienced team of vegetation control operators and offers a vegetation control service in close proximity to live power lines as well as general vegetation control.



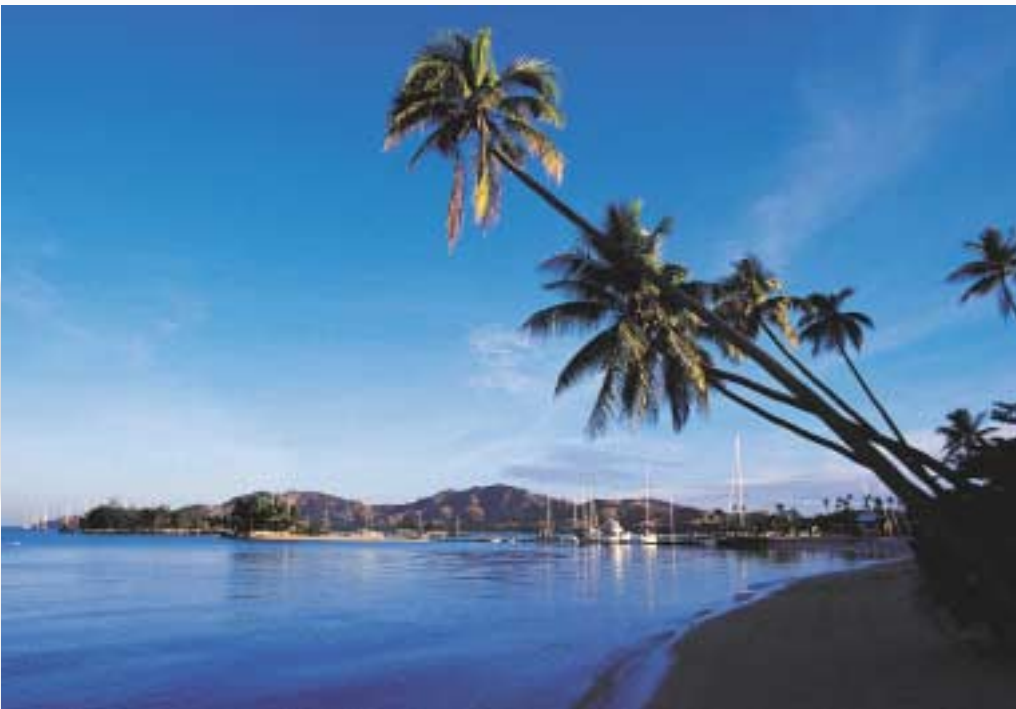
## Cable Location and Fault Services

Contracting Services offers cable location services using hand held sensing devices. The Technical Services group also offers a fault location service for both underground and overhead reticulation using state of the art sensing equipment.

## Customer Supply and Network Connection

Contracting services has an established liaison with Energy Retailers and provides clients with new connections, disconnections, reconnections, inspections, theft investigations and any meter related service.

# Malololailai Is. Fiji



Following the successful completion of minor repairs for the Musket Cove Resort and Malololailai Lagoon Timeshare Resort, Contracting Services was contracted to design, build and commission a 2 megawatt Power Station for Leeward Island Services (a joint venture company that is owned by both Plantation and Musket Cove resorts).

This project involved the connection of 2 new 900kva generators plus an existing 375kva into a 415volt system. The supply was then stepped up to 11,000 volts and both resorts were reticulated with step-down transformer units and low voltage reticulation.

*It was very reassuring knowing that Top Energy's Contracting Services team had the expertise and experience to design, build and commission the Island's new Power Station.*

**Dick Smith**  
Musket Cove Resort

## Mataka Station

Mataka Station is a permanently protected, private conservation estate situated on 1,133 hectares, including some 16 kilometres of beautiful Northland coastline. The estate includes a fully operational sheep and cattle farm, operated under lease.

There are 30 private housing lots within the estate, providing owner/shareholders with shared access to the key assets and infrastructure of the whole property, including four beaches, extensive coastline, shrub and wetland conservation areas, stables, beach lodge, boatsheds, heli-pad, Mt Mataka and an extensive network of over 40 kilometres of private roads and hiking, riding and biking trails.

Each owner holds title to a large lot (from approximately 20 - 57 hectares, of which up to 10 acres can be fenced off for private use) and the estate is covenanted with Design Guidelines for the protection and interest of all owners in the overall quality and design integrity of individual houses and landscaping.

Early in the project development phase, the Mataka Station development team contracted Contracting Services to project manage and implement a competitive reticulation solution.

The development area was a

geographically challenging environment and the client specifically required that, within budgetary, timing and quality guidelines, the electrical reticulation needed to also be environmentally aesthetic in that it needed to 'blend with the environment'.

To achieve the desired result a close partnership and shared vision was developed between Contracting Services and the developer, with the final solution selected resulting in the design and installation of a 15km all underground system to supply the exclusive building sites.

*Mataka Station is a true conservation estate. The underground electricity reticulation needed to blend totally with this unique environment. The Contracting Services team impressed us with their clear understanding of what we wanted to achieve.*

**Evan Williams**  
Director, Mataka Limited



# Top Energy Group

With an annual turnover exceeding \$43 million, employing 180 full-time staff and managing assets of \$120 million, the Top Energy Group is a substantial commercial enterprise. In addition to the Contracting Services division, the Top Energy Group comprises a Line Network, Geothermal Power Station and Customer Contact Centre, *PHONEplus*.

The Top Energy Group is 100% owned by the Top Energy Consumer Trust, on behalf of all power consumers connected to the Company's line network.

## Top Energy Contracting Services

Contracting Services is the contracting division of Top Energy Limited. With 95 core staff, Contracting Services is based in the Mid and Far North of New Zealand's North Island and operates from purpose built depots in Kaitaia and Puketona.

Contracting Services specialises in the provision of electrical reticulation to clients including developers, local authorities, infrastructure owners, home owners and sub dividers. Individual business units provide focus and accountability to each core aspect of the Contracting Services business.

Contracting Services provides a client driven electrical contracting service with an extensive range of project management, design, maintenance and construction skills specialising in:

- ▶ Subdivision and Resort Reticulation Design and Construction
- ▶ High and Low Voltage Underground Cable and Overhead Reticulation Design, Construction and Maintenance (ranging up to 33,000-volt capacity)
- ▶ Live-line Maintenance
- ▶ Vegetation Control
- ▶ Customer Supply and Network Connection
- ▶ Cable Location and Fault Services and
- ▶ Commercial and Industrial Wiring

The Top Energy Network is one of Contracting Services major clients where qualified technicians, line engineers and electricians provide the expertise required to operate and maintain the electrical distribution infrastructure, including a variety of essential plant and equipment. This includes two Transpower substations, where power is supplied from the national grid, ten network substations across the line network, a mobile substation and Top Energy's geothermal power station at Ngawha.

Contracting Services is committed to providing clients with a service which is flexible, innovative and responsive to their needs, while providing them with outstanding results in terms of timely project completion, optimal quality and cost effectiveness. To achieve this, the Contracting Services business has developed a highly mobile and flexible 'Projects Group' capable of deployment both nationally and throughout the Pacific Islands.

Contracting Services has established an extensive portfolio of successful major project completion and with high levels of client satisfaction achieved, this has resulted in a substantial repeat clientele.



# Carrington Karikari Peninsula

Contracting Services was originally approached by the development company Edgewater Developers to design and reticulate a 71 section subdivision on the Karikari Peninsula. From this development came Carrington, a luxury accommodation resort which includes an 18 hole international golf course, country club which includes a restaurant, bar and a state of the art conference centre. The development also supplies three water reticulation systems that feed both the resort and Northland's northern most vineyard and winery, Karikari Estate that is also part of the development.

Contracting Services was then further commissioned to design and install another 10km of underground high voltage cable with 1000kva of transformers and significant quantities of low voltage reticulation on the 1,214 hectare property.

Following the completion of this project phase, Contracting Services was again contracted to complete a further project with Edgewater Developers which involved the electrical design and reticulating of a 242 section subdivision on an adjacent property to the resort.



Contracting Services Northern Depot, Kaitaia



Contracting Services Southern Depot, Puketona

If you'd like to find out more about the services provided by Top Energy's Contracting Services division, or for a quotation, please call us now.



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