



KORDIA™



CAPABILITY

CUSTOMISED WIND ENERGY SOLUTIONS

As the world turns to more sustainable energy options, Kordia™ is at the forefront of technical development and solutions.

Wind energy is a key growth area and we offer wind farm developers a unique range of skills. We have the right expertise to get your wind energy project off the ground.

- WIND MONITORING MAST SOLUTIONS
- RADIO INTERFERENCE CONSULTANCY
- SUPERVISORY AND CONTROL SYSTEMS
- END-TO-END PROJECT DELIVERY





CUSTOMISED WIND ENERGY SOLUTIONS

WIND MONITORING MAST SOLUTIONS

- MET MAST DESIGN, FABRICATION AND INSTALLATION
- MET MAST AND EQUIPMENT MAINTENANCE
- END-TO-END PROJECT DELIVERY IN AUSTRALIA, NEW ZEALAND, THE ASIA PACIFIC REGION AND BEYOND

RADIO INTERFERENCE CONSULTANCY

- RADIO INTERFERENCE MODELLING & PREDICTION
- IDENTIFICATION OF POTENTIAL RADIO INTERFERENCE
- MITIGATION STRATEGIES
- CONSENT APPLICATION SUPPORT AND HEARING REPRESENTATION

SUPERVISORY AND CONTROL SYSTEMS

- PROCESS CONTROL SOLUTIONS
- REAL-TIME DATA COLLECTION SOLUTIONS
- EQUIPMENT CONTROL AND MONITORING SOLUTIONS
- ENVIRONMENTAL MONITORING AND SURVEILLANCE



IDENTIFY THE RIGHT LOCATION

In developing a wind farm, you first need to ensure that your location has the right wind characteristics to support viable energy generation.

Kordia™ can help you identify the right location for your wind energy project with robust, cost-effective wind monitoring mast solutions. Our met mast solutions are designed by leading structural engineers and installed by skilled field technicians to stand the test of time, weather and budget.

Kordia™ offers unrivalled structural engineering expertise, gained over more than 60 years designing, building and maintaining structures in extreme weather environments – and delivering a range of met mast solutions to wind energy customers.

Kordia's™ award-winning end-to-end project management approach means we can take care of all aspects of your project, including the supply of anemometer equipment. Plus, you can be assured of a successful project, delivered from initial planning right through to completion.

GAIN CONSENT

A key component of the wind farm consent process is reducing the potential for radio interference. Kordia's™ breadth of wireless expertise can help you gain consent for your project by modelling the potential interference of wind turbines on communications services, including TV, radio and mobile phone signals.

We can offer options for interference and provide an expert engineering report to support the consent and hearing process.

REMOTE MONITORING AND CONTROL

If you need to access real-time data from remote locations, Kordia's™ world-class network design engineers can help. Kordia™ offers design solutions that enable you to monitor and control equipment on site, regardless of where your project is located.

We can design cost-effective supervisory systems that provide process control, real-time data gathering from remote locations and the ability to control your equipment from afar.

WHY WIND FARM DEVELOPERS CHOOSE KORDIA™

SINGLE SUPPLIER

Kordia™ offers end-to-end project delivery and works with other suppliers so you can enjoy the simplicity of dealing with a single supplier for all aspects of your met mast solution.

COST-EFFECTIVE

Because Kordia™ offers a one-stop-shop using in-house expertise, we deliver high-value, cost-effective solutions.

ROBUST

We're expert at designing and installing structures that stand up to the harshest conditions Mother Nature has to offer – including hurricane force winds, snow & ice.

QUALITY ASSURED

Our engineering expertise, quality certification systems and 60 years of project experience mean you can be assured our solutions meet the highest quality standards.



MET MAST PROJECT CASE STUDY:

BELMONT MET MAST FOR GREATER WELLINGTON REGIONAL COUNCIL

A met mast solution delivered by Kordia™ is helping Greater Wellington Regional Council identify the potential for a future wind farm at Belmont Regional Park.

Kordia™ installed a 70 metre guyed mast as a 'turnkey' solution for Greater Wellington in December 2003, taking care of all aspects of the project including design, fabrication, installation, commissioning and project management.

The Belmont met mast measures wind speeds at heights of 10 metres, 30 metres, 50 metres and 70 metres and is designed to withstand gusts of up to 75 metres per second (270 km/h).

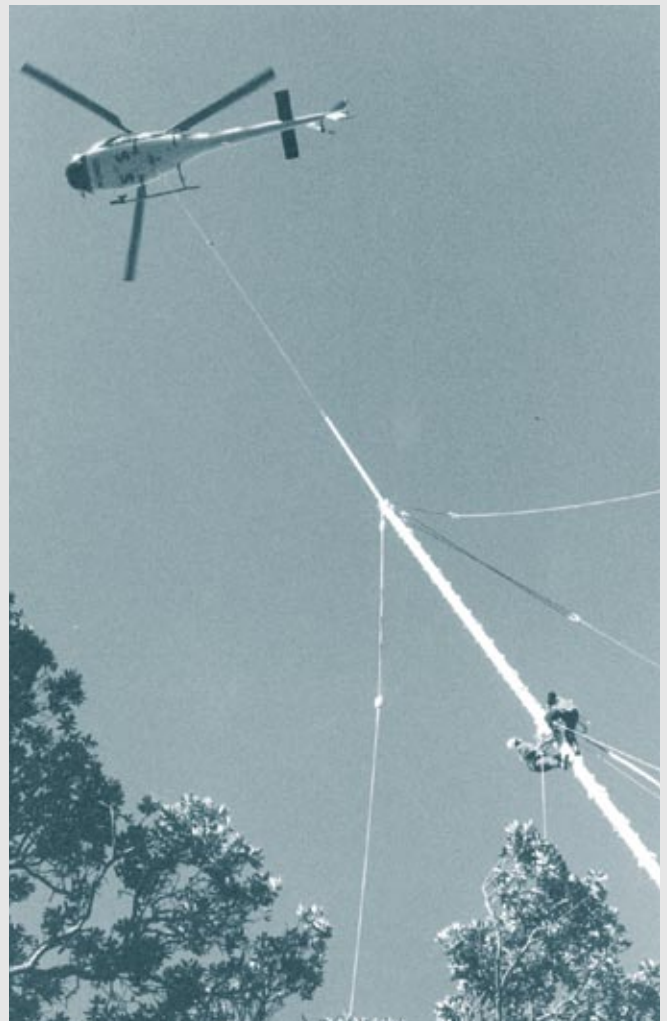
Cr Chris Laidlaw, Chair of Greater Wellington's Landcare Committee, says Kordia's™ met mast solution was delivered within budget and ahead of schedule, and has proven its worth. "Installing a met mast has enabled us to demonstrate the site's viability as a potential wind farm for the region," he says.

Data from the met mast shows wind speeds at the site average about 10 metres per second, enough to support around 80MW of wind generation.

The Kordia™ mast has also proven to be robust, withstanding hurricane force winds of up to 44 metres per second (158 km/h) that washed out bridges and toppled pine trees near the site in February 2004.

PROJECT FACTS

Customer:	Greater Wellington Regional Council
Mast height:	70 metres
Location:	Belmont Regional Park
Installed:	December 2003 (ahead of schedule)
Anemometers:	4 (10m, 30m, 50m, 70m)
Design strength:	To withstand gusts of 75 metres per second (270 km/h)





KORDIA'S™ UNIQUE EXPERTISE

OVER 60 YEARS OF ENGINEERING AND PROJECT EXCELLENCE

Kordia™ offers wind farm developers a unique range of skills and expertise.

Our structural engineering capabilities, wireless expertise, project management acumen and skilled installation teams located throughout New Zealand and Australia mean we can offer a range of solutions to assist in the development of wind energy projects.

We're well placed to help you get your project off the ground, thanks to the experience we've gained over more than 60 years designing, building and maintaining masts in extreme weather environments across New Zealand, Australia and the Asia Pacific region.

Kordia™ pioneered radio and TV broadcasting in New Zealand and also provides communications network solutions to energy utilities, telecommunications providers and broadcasters. Communications network services include network access and linking, SCADA, surveillance and network management solutions.



FOR MORE INFORMATION, PLEASE VISIT: www.kordiasolutions.com

