



## Providing end-to-end Engineering Solutions for the Renewable Energy Sector



25  
CELEBRATING 25 YEARS



**As the global demand for renewable energy increases, so does the need for innovative engineering solutions.**



# The RIX Group provides a comprehensive end-to-end engineering service from design and construct to extension of life.

The RIX Group comprises of RIX Specialist Contracting, RIX Asset Maintenance, and RIX Ground Engineering, and is the largest and most diversified ground engineering company with over 400 people employed across Australia.

RIX has capacity to take on large-scale projects and provides the flexibility to scale operations as needed, giving clients the advantage of a well-supported and highly capable team.

We've built a reputation for excellence by delivering comprehensive and unique ground engineering solutions including ground anchoring, slope stabilisation, shotcrete, architectural shotcrete and simulated rock, retention & foundation piling, specialist civil contracting, ground improvement, rope access and steel fabrication services. These are undertaken completely in-house by skilled and experienced crews and are delivered to the highest quality.

**RIX Asset Maintenance (RAM) who are IRATA Accredited** have multiple in house licenced and trained operatives specialising in WTG Maintenance Inspections & Repairs covering the following activities: Blade inspection; Lightning protection; Grinding skills; Sanding; Laminate repairs; Filling surface repairs; Trailing edge repairs; Sandwich panel repairs; Bond line repairs and Painting.

RAM's operatives have recently worked on Boco Rock Wind Farm and Goyder South Wind Farm.

RIX provides complete engineering solutions, from design and construct to ongoing maintenance:

**Geotechnical Investigations**  
**Windfarm foundations**

**Tower foundations**

**Foundation anchors**

**In-house fabrication**

**Rope access technicians**

**WTG Maintenance**

**Blade Inspections & Repairs**





*Wind turbines at the Albany Wind Farm,  
Western Australia.*



## Our Process

1. Geotechnical Investigation
2. Design
3. Construction
4. Maintenance
5. Extension of Life

With the increasing hub height and rotor diameter of wind turbines, foundations are becoming more complex and costly. The RIX Group specialise in unique designs to increase the foundation lifetime and minimise budget impact while having minimal environmental impact.

## In-house Fabrication

Our in-house manufacturing and fabrication facility is certified to ISO 3834 and services all states in Australia. Providing specific tailor-made ground engineering solutions to our client's specific project thus providing certainty in terms of quality, budge and schedule.

Anchoring Manufacturing and Fabrication Facility services include:

- Planning, drafting, design & 3D modelling
- Temporary and Permanent Strand Anchors
- Hold Down Anchors
- Soil Nails of all specifications
- Rock Bolts
- Anchor Brackets
- Waler Beams
- Structural Steel Bracing
- Structural steel supply, fabrication & installation.



*Foundations of wind turbines with concrete and steel, Wörrstadt, Germany*





Talbingo intake excavation and  
Talbingo adit. Credit: Snowy  
Hydro Limited



## Windfarms - Turbine Foundations

### New Build

The RIX Group offer a complete end-to-end solution for the construction of wind farm foundations including design, formwork, reinforcement, installation and ground anchoring solutions enabling smaller foundations to be constructed efficiently and economically.

Mass Soil Mixing, Permeation Grouting, Anchoring and Proplate Mixed Secure is the ideal anchoring solution where versatility is required in undesirable ground conditions.

### Existing Structures

The RIX Group install ground anchors and other unique ground engineering solutions on existing windfarm foundations to provide extra stability or as part of foundation construction enabling cost saving solutions.

## Transmission Lines - Tower Foundations

Factors to consider:

- Tower Geometry
- Soil conditions
- Access
- Environment
- Cost

Offering one of Australia's most niche construction techniques, The RIX Group counter these factors with unique solutions saving time, money and environmental impact.

## Pumped Hydro

### New Build's and raising / maintenance on existing dams

The RIX Group provide a range of ground anchoring and stabilisation solutions including, rock bolting, grouting, shotcreting and rockfall mesh as well as deep geotechnical investigations to enable large scale works in remote and challenging locations.

## PV Solar - Foundation Solutions

In Australia, solar farms have become an integral part of the country's energy transition mix, contributing significantly to both the national grid as well as standalone micro-grids. The RIX Group use industry specific ground engineering and automated drilling to reduce labour cost.

Key benefits:

- Eliminates the need for pre-drilling
- Reduce cost and construction time
- Improve long term stability



**RIX Group is Australia's Largest Ground Engineering Contractor, operating throughout Australia, New Zealand, and the greater Asia-Pacific region.**



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Accredited to:

ISO 9001:2015

ISO 14001:2015

ISO 45001:2018

AS/NZS ISO 3834 – Part 3