



Australian Environmental Solutions

Capability Statement





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Company Overview

We are Erizon.

Industry leaders in large-scale mining and civil environmental solutions including rehabilitation, revegetation, dust suppression and erosion control, Australia-wide.

With over 25 years of experience in our field, our products and techniques show proven success in the most demanding environments Australia has to offer. Our unique approach engages teams of experts from across the fields of science, engineering, project management and cutting-edge technology.

Taking the time to fully understand the variables and characteristics of each project we undertake ensures our continued performance success, with guarantees of up to 24 months. This culminates in our steadfast Supply, Apply, Guarantee.

Erizon is certified for safety, environmental and quality management systems to ISO and Australian Standards. We operate a Vision Zero policy framework, ensuring the safety of our staff and our partners.

With the ability to mobilise rapidly from depots in each state and territory in Australia, the Erizon team are ready when you are.



Our Difference



SUPPLY



APPLY



GUARANTEE

Erizon's services are supported by the expertise and consultation of our experienced, specialist team of agronomists, horticulturalists, and soil scientists. All Erizon products are developed and made in Australia, with rigorous and extensive performance testing applied. These products are designed to complement our unique Australian environment and landscapes, including the most depleted and degraded soils in the country.

Our highly trained technicians utilise state-of-the-art equipment to apply products with precision and accuracy, while our use of drones radically improves the quality and efficiency of our operations. With a tailored Quality Management Plan and Inspection & Test Plan (ITP) we identify and record project specifications and requirements. Everything we do meets Australian Safety, Environmental and Quality standards.

At Erizon, we understand the need for a customised approach to each project. Site requirements, sustainability targets and specific objectives are paramount in helping us guarantee our client's goals. With our scientifically developed solutions, tailored to your project's purpose, and expert, modernised application methods, we will deliver a seamless end-to-end service, which makes guarantees possible.

Our Core Values



Safety

Protecting the health, safety, and welfare of our team, including clients, contractors and visitors, and the safe management and sustainability of the environment, are paramount in everything we do. The success of our projects relies on and reflects this.



Innovation

As an industry leader, we strive to constantly innovate to improve performance and guarantee results - keeping pace with modern technologies in the industry allows us to do so. We research, develop and implement cutting-edge solutions backed by science.



Excellence

Our business is not just about providing a solution that works. We build long-lasting partnerships with our clients, ensuring a quality service prior, during, and post-project, paving the way for a successful working relationship with a focus on excellence.

Vision Zero

At the heart of Erizon is Vision Zero, our primary safety strategy. Vision Zero creates a workplace culture where safety is our number one priority and 'zero' becomes the only acceptable number for accidents or fatalities in the workplace.

Regular training, protocols and service exercises ensure the maintenance of the correct safety methods and that certifications are being performed and align with the AS/NZS 4801:2001. Additionally, our safety and environmental systems are regularly audited by our clients in high-risk industries to ensure that we are compliant with their WHSEQ requirements.





Efficiency

With the ability to deploy from depots across the country, we execute a swift response, even in Australia's most remote areas. The capacity of our state-of-the-art equipment, technology and expert technicians allows us to maximise project efficiency.



Integrity

At Erizon, we conduct business with the utmost professionalism and ethics. We believe in fulfilling our duties to the highest moral standards and value transparency, honesty, and ethicality in all interactions with our clients, personnel, contractors, and the public.



One team

The Erizon workplace is wholly inclusive, with the safety and well-being of our team a priority. Our customer-centric approach is comprehensively upheld. That way, we can understand the unique needs our clients and ensure that their satisfaction is our number one priority.

Our Approach

Environment

Erizon is committed to delivering personalised sustainability services that focus on innovative, practical and economical solutions built for the unique Australian environment. An integral part of our approach to each project, comprehensive environmental planning means every aspect of our activities, operations and decision-making processes are meticulously considered.

Quality

Being on the forefront of industry developments means that, at Erizon, we guarantee the highest quality products and services for our clients. Everything we do meets the Australian Safety, Environmental and Quality standards, and our tailored Quality Management Plan and Inspection & Test Plan (ITP) helps us maintain long-term successes.

Communication

Effective communication is a crucial tool in driving our achievements. At Erizon, we know we work better together. We have created a workplace dynamic where two-way communication is key in every facet of what we do. This is equally dedicated to open and clear communication with our clients.

Expertise

The foundations of our tailored client solutions are supported by our team of experts. Our experienced crew are passionate about continuing to hone their craft. With awareness and appreciation of new and innovative solutions to optimise results in our service offering, we stay pioneers of environmental expertise.

Our Services



Dust Suppression

The leading-edge technologies we use for dust suppression will not only save water but can also dramatically minimise site activity and the time, money and energy spent on project management tasks. You are guaranteed immediate control and instant results upon application of Erizon products.

Hydromulching

Damaged and depleted soils require more than conventional methods to achieve sustainable growth. Through the application of world-class growth mediums, we can support faster vegetation growth while minimising erosion.

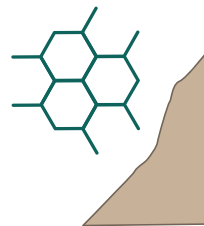


Hydroseeding

Hydroseeding is an efficient and cost-effective technique for revegetating large areas. Our specially designed hydroseeding equipment allows the operator to agitate the mixture to ensure even and constant mixing of ingredients, maximising erosion protection and soil stabilisation.

Soil Stabilisation

Mining, construction and infrastructure developments may disturb the soil and compromise its stability and ability to support vegetation growth. Erizon rehabilitate such areas and apply the most effective topsoil alternative suitable for your project landscape.



Erosion Control Blanket

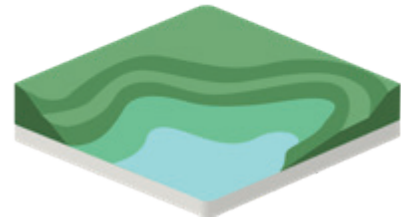
Erosion control projects can be challenging work. There are substantial safety risks to staff in the installation of traditional erosion control matting products, particularly when there are steep inclines involved. Our innovative EcoArmour®, designed and made in Australia, allows for safe and effective installation with a guaranteed lifespan of up to 20 years.





Mine Site Rehabilitation

Each rehabilitation project requires a customised solution, tailored to site-specific requirements and your goals. Erizon's effective solutions ensure your goals are met, while ensuring the sustainability and longevity of your project.



Trial Testing

Envizo is our latest software developed to assist in determining the best solution for revegetation projects. The trial testing looks at variables such as seed types, mulch application rates and soil amendments. While the technology provides 24/7 real-time performance indicators including live video and reporting data.

Drone Services

Erizon has been at the forefront of using drones to improve safety, efficiency, and cost-effectiveness within the environmental industry. Our drone services include:

- Aerial Spraying
- Aerial Seeding
- 3D Mapping
- LiDAR Scanning
- Plant Health Monitoring



Soil Testing

Soil analysis is the first step to any successful soil management and hydroseeding project. It gives critical information about the biochemical composition and physical properties of a piece of land, ensuring we provide a favourable growing environment.



Erizon's Revegetation Process

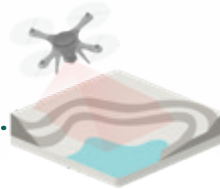
From meeting environmental remediation requirements, controlling erosion, reducing land degradation, and enhancing and re-establishing Australia's unique landscapes, the benefits of revegetation are many.

However, revegetation projects in damaged landscapes following construction or mining activities in Australia can be challenging. At Erizon, our proven 8-step revegetation process, tailored to your site-specific requirements and project goals, can effectively reverse the adverse impacts of clearing and disturbance, ensuring successful rehabilitation.



1. Soil testing and analysis

Attending the site in person to collect soil samples allows our team to better understand rehabilitation needs, noting soil type, landscape, prior land use and early species considerations.



2. Drone surveying

A 3D survey is undertaken of the proposed revegetation site to accurately measure the area size and map it to a high degree of detail for quality, planning and analysis purposes



3. Identify best plant species

Identifying the plant species appropriate for the specific site you want to revegetate is imperative. Erizon considers the revegetation purpose, natural habitat, and native and local plants for potential use.



4. Tailor the best solution

Our experts craft the best solution for your project based on the site analysis. We consider erosion control and product effectiveness, including the ability to facilitate growth and the functional longevity required.



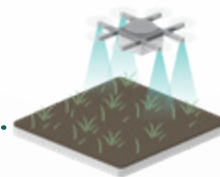
5. Soil amendment application

Damaged and depleted soils will require a site-specific amendment program to sustain long-term growth. This step is vital to establish the optimal foundation for a successful revegetation project.



6. Hydromulch and seed application

Our highly trained technicians prepare and apply the tailored solution using specialised HydroRig equipment. Each vehicle is equipped with internally agitating tanks to achieve a consistent slurry which is sprayed via roof-mounted cannon or hose.



7. Drone spraying

Once solutions are applied and seeding is complete, Erizon creates a timeline to ensure the continued care of the site. After 4-8 weeks, we use the latest drone technology to apply fertiliser, trace elements and soil probiotics to targeted areas of the site.



8. Post-project monitoring

Monitoring and maintenance are vital to ensure the ongoing success of your revegetation project. Erizon use the drone sensor, and imaging technology to accurately report on the progress of vegetation health.

Plant and Equipment

All Erizon's plant and equipment is mine compliant and maintained according to manufacturer specifications and requirements to ensure Vision Zero safety levels and reliability during operation. Erizon ensures that all plant and equipment are thoroughly cleaned before and after each project to eliminate cross-contamination of solution materials.

HydroRigs

A game-changer in revegetation, our HydroRigs allow us to apply solutions in a fast and efficient manner, covering up to 50,000 square metres per day. Our machines are designed to optimise efficiency and effectiveness by providing unparalleled coverage of extensive areas and difficult terrains. Featuring hydraulic cannons, an extendable hose reel reaching up to 400 metres, and in-built agitators to maintain a uniform solution application.



Low Ground Pressure Equipment

While our standard HydroRigs are suitable for most sites, we are also equipped to perform on soft and challenging terrain, such as tailings storage facilities (TSFs).



7-9 PSI Tracked HydroRig

The addition of rubber tracks to our HydroRigs increases safety and accuracy, and reduces costs compared to alternative methods, such as aerial application by air tractor or helicopter. These tracks are engineered to be quickly installed on-site and used to provide greater traction, floatation and reduced compaction.

4-6 PSI LBC HydroTrailer

Our low bearing capacity (LBC) HydroTrailer is a specially developed low ground pressure system. This system, a HydroRig is mounted on a purpose-built trailer with LBC capabilities, which is then towed by a mine-spec, wide-tracked tractor. The tracked tractor has the capability of extending its track width past that of the trailer tracks, which will reduce compaction and degradation of the TSF surface.

1-3 PSI Snowgroomer

Our Prinoth Beast Snow Groomer provides a much safer way to tow the tracked HydroRig with its extremely low ground pressure footprint of 1 PSI. This equipment has been specifically engineered to allow flexibility with multiple application solution options for areas that require minimal ground pressure traffic.

Revegetation Solutions

Successfully revegetating damaged landscapes following construction or mining activities can be particularly tricky in Australia's diverse environments. Hydroseeding and hydromulching have proven to be effective strategies for revegetating and stabilising batters. However, distinct soils and weather conditions across the country mean there is no 'one-size-fits-all' solution for every revegetation and erosion control project. Erizon are here to help find the right solution for your project.



GoSeed® is an advanced hydroseeding product, scientifically developed to deliver superior germination rates and added seed protection to achieve denser vegetation. It contains beneficial microbes carefully selected by soil scientists to optimise conditions for growth.



EnviroSprout™ is a hydraulic growth medium designed to revegetate large areas using a one-step process. EnviroSprout™ drastically increases plant strike rate and vegetation density over hydroseeding alone. Thermally refined wood fibres and microbial amendments promote soil health, optimise germination, help water infiltration, and allow a consistent release of nutrients for long-term sustainable plant growth.



EnviroLoc® is a bonded fibre matrix solution for revegetating areas with challenging growth conditions. The two-step application provides enhanced seed mix protection from fauna and harsh weather conditions, providing an optimal germination environment. The higher application rate of thermally refined wood fibres provides optimal temperature stabilisation and increased moisture retention levels. Proprietary binders and tackifiers make EnviroLoc® ideal for revegetating on steep slopes and uneven terrain.





EnviroSoil[®] Topsoil Alternative

EnviroSoil[®] is a hydraulically applied topsoil alternative. Active components include thermally refined organic fibres, high carbon, natural soil conditioners, seaweed extracts and mineral blends, including basalt and microbial inoculants. When combined, these ingredients work symbiotically to improve the growing conditions of the rhizosphere.

Envirosoil[®] is designed for challenging areas where existing soil is severely damaged and lacks essential nutrients and bioactivity after being disturbed by development.

EnviroLoc[®] Airfield Hydromulching BFM

Based on the market-leading EnviroLoc[®] BFM, the airfield variant introduces an airport grade polymer blend to achieve immediate erosion control against jet blast, whilst still creating a high-performing growth medium matrix.

The flexible, yet stable matrix immediately bonds to the surface while the combination of thermally refined wood fibres and biopolymers provide greater water holding capacity for more complete germination and faster establishment of vegetation.



Dust Suppression Solutions

Erizon continue to be market leaders in dust suppression solutions for over 25 years for commercial mining, civil, oil and gas, environmental and infrastructure projects Australia-wide. We utilise advanced dust suppression methods that consistently achieve better results, are environmentally friendly, and offer higher functional longevity.

The best type of dust control solution for your site will depend on a host of site-specific variables, such as the time available to establish vegetation, micro-climate, seasonal conditions, soil type, the area topography, drainage and project duration.

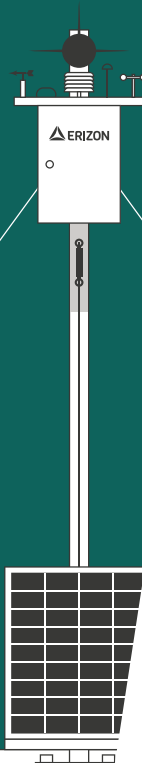
We effectively tailor a solution to solve the most complex dust abatement issues. Our methods create durable, water-resistant, and environmentally friendly surface crusts over dust, soil and aggregate. We also offer dust control solutions to cater to sites suited for vegetation growth.

The cutting-edge technologies we use for dust suppression will dramatically minimise site activity and the time, money and energy spent on project management tasks, while consistently achieving the best results.

Dust Monitoring

Large-scale tailings storage facilities require continuous dust suppression application to maintain the safety of personnel and the local community. Erizon provides dust management solutions, including 24/7 dust monitoring and a rapid response plan to mitigate dust risk due to adverse weather events.

Dust monitor stations are strategically placed in key areas of the site to record Pm5 and Pm10 dust levels and weather data. This data is sent directly to the Envizo website where it can be monitored with automatic email alerts for dust events.



SuppressX[®]

Dust Suppression & Erosion Control

Perfect for non-trafficked areas, SuppressX[®] is ideal for all forms of substrate, including tailings, ash dams, and stockpiles. The flexible crust is composed of unique microscopic cross-linked superabsorbent polymers that bind fine particles, providing immediate dust suppression without changing the overall composition of the substrate.



HydroBond®

Dust Suppression for Revegetation

As well as providing immediate dust suppression, HydroBond®'s specialist blend of polymers and additives form a permeable biodegradable crust when applied that increases the treated soil's water retention capacity and prevents the leaching of essential nutrients. It works with all soil and sand types and is perfect for when dust is the immediate concern, but longer-term revegetation is the goal.

RoadBond®

Dust Suppression for Trafficked Areas

Developed and extensively tested to withstand the harsh conditions of sites operating in the mining, resources, and infrastructure industries. RoadBond® is a highly effective dust suppression and surface stabilisation product for unsealed roads. Immediately effective upon application, this hygroscopic solution is designed to absorb moisture from the ambient surroundings and agglomerate soil fines, creating a compacted and durable layer. Resistant to traffic wear and continually effective, RoadBond® results in a significant reduction of dust emissions.

FibreLoc®

Wood fibre Mulch for Dust Suppression

Designed for uneven terrains and dynamic substrates, FibreLoc® is an advanced dust suppression product scientifically engineered to withstand the harshest conditions where polymer solutions aren't suitable. The interlocking organic wood fibres and sustainable binders form a flexible blanket that can resist high salinity levels such as those found on tailings storage facilities.

Once applied, FibreLoc® provides functional longevity of up to 24 months.

Erosion Control Solutions

Our erosion control solutions are designed to withstand Australia's harshest climates. They can stabilise almost any type of surface and bind to the substrate in a matter of hours, providing immediate erosion control.

Compared to conventional erosion control blankets, such as geo-fabric, our erosion control solutions are safer to apply and are proven to be more effective and cost-effective, as they can last 20 years.



Eco Armour® is a synthetic erosion control blanket that will combat the most diverse environments and weather – from dry, arid conditions to torrential wind and rain events. Eco Armour® binds effectively to different substrates, including soil, clay, rock, shale, weathered concrete, sand, and sandy loam, while also meeting all relevant transport and main roads specifications.



Drone Services



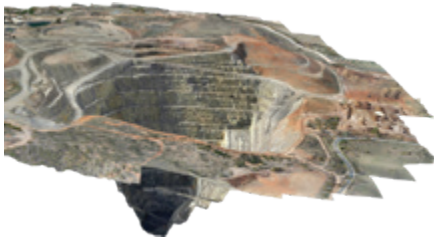
Aerial Spraying

With the ability to cover varied and uneven terrain, drones are quickly becoming the ultimate precision spraying tool. Targeting specific areas where treatment of fertiliser and soil ameliorants is necessary, aerial spraying can treat an area up to 40 times faster than manual spraying operations. For projects that require extended flight times, hybrid drones that utilise an onboard generator can be deployed.



Aerial Seeding

Drone seeding is an extremely cost-effective, efficient solution for aerial seeding during large-scale revegetation projects. Erizon's drones allow seeds and nutrients to be placed exactly where needed. The manoeuvrability of the UAV (Unmanned Aerial Vehicle) allows our pilot to service isolated or difficult access areas. We can adjust the flight speed, altitude, and feed rates to meet the required radius and density of the spread.



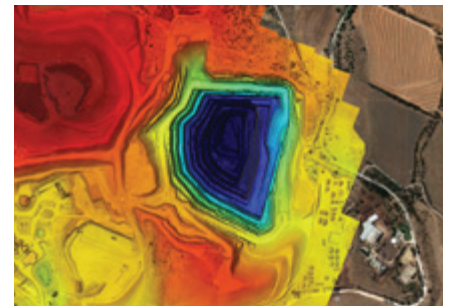
3D Mapping

When you need a site survey, accuracy is vital. Using drones with high-resolution cameras and sophisticated photogrammetry software allows our team to create a detailed 3D model of your site. This map contains exact and reliable data that can be used to plan and execute projects efficiently. Compared to traditional methods, drone-enabled mapping provides a faster and safer way to assess large and challenging areas.



Plant Health Monitoring

To ensure the success of your revegetation project, consistent monitoring is required. Erizon offers drone-enabled plant health monitoring. The ultra-precise data provided can help you identify subtle issues you may be unaware of, help you gain deeper insights, make informed strategic decisions, and allow you to recalibrate your strategy, if necessary.



LiDAR Scanning

Erizon's drones equipped with LiDAR cameras use laser measurement to help you compute distances that conventional light can't. Through LiDAR (Light Detection and Ranging) you can acquire high-precision data while reducing processing time and your time in the field. Precise 3D data can be achieved, even with challenging weather and lighting conditions.

Customised Trials

Rehabilitating large areas can be an uncertain process, especially in harsh environments with varying conditions.

Damaged and depleted soils require a deeper understanding of the available options before healthy and sustainable long-term growth is possible. An early miscalculation could result in a costly and timely exercise in the long run. This understanding paved the way for Erizon to develop a service that can dramatically increase project success with revegetation trial development and real-time performance monitoring technology.

Trial

A custom trial area will give you the best possible insights into the most effective methods for project success. Multiple zones within a test area can show you the effectiveness of a range of variables such as seed type, irrigation rates, products, product application rates, as well as product combination options. The results of this trial will inform you of the most effective solution possible with more accurate cost estimations.

Monitor Performance

Envizo is a performance monitoring system that collects data, allowing our team and clients 24/7 remote access to a full range of performance indicators. These can include temperature, humidity, soil moisture levels, average rainfall and much more. Live video and reporting capabilities allow our team to accurately study the behaviour of each test configuration to define the best possible solution for the overall revegetation project.

Perfect and Implement

Once the trial is complete, you have full access to a comprehensive report analysing the trial period. From here, we can design the perfect, sustainable solution for your project.



Our Clients

BHP

Delta
electricity



THIESS



RioTinto

GLENCORE



**HILLGROVE
RESOURCES**





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