

RENEWABLES

CAPABILITY STATEMENT

SOLAR | WIND | TRANSMISSION LINES | SUBSTATIONS





Temporary ground stabilisation matting for piling rig access
Ross River Solar Farm, Townsville, QLD.

INTRODUCTION



As renewable projects and utility developments lead Australia towards the future of clean energy, we provide the way for project teams to build temporary roads and work platforms sustainably.

JWA help developers and engineers keep on schedule and budget with our experience in overcoming ground issues while supporting best practises in environmental and work safety policies.

Solar farms, wind farms, substation builds and transmission line connections spanning across large areas have to deal with terrain challenges such as problematic soils, environmental restrictions, and exposure to rain events.

Our range of composite matting solutions has been tried and tested on major Australian projects. Whether it is preventing heavy equipment from breaking through acid sulfate soils, minimising earthworks around waterways and nature reserves, or responding to 1-in-100 year rain events, we have a successful track record since starting in 2003.

From man-portable pedestrian walkways to Australia's toughest composite mat, Dura-Base®, our expert team will advise the right solution for your scope of works.



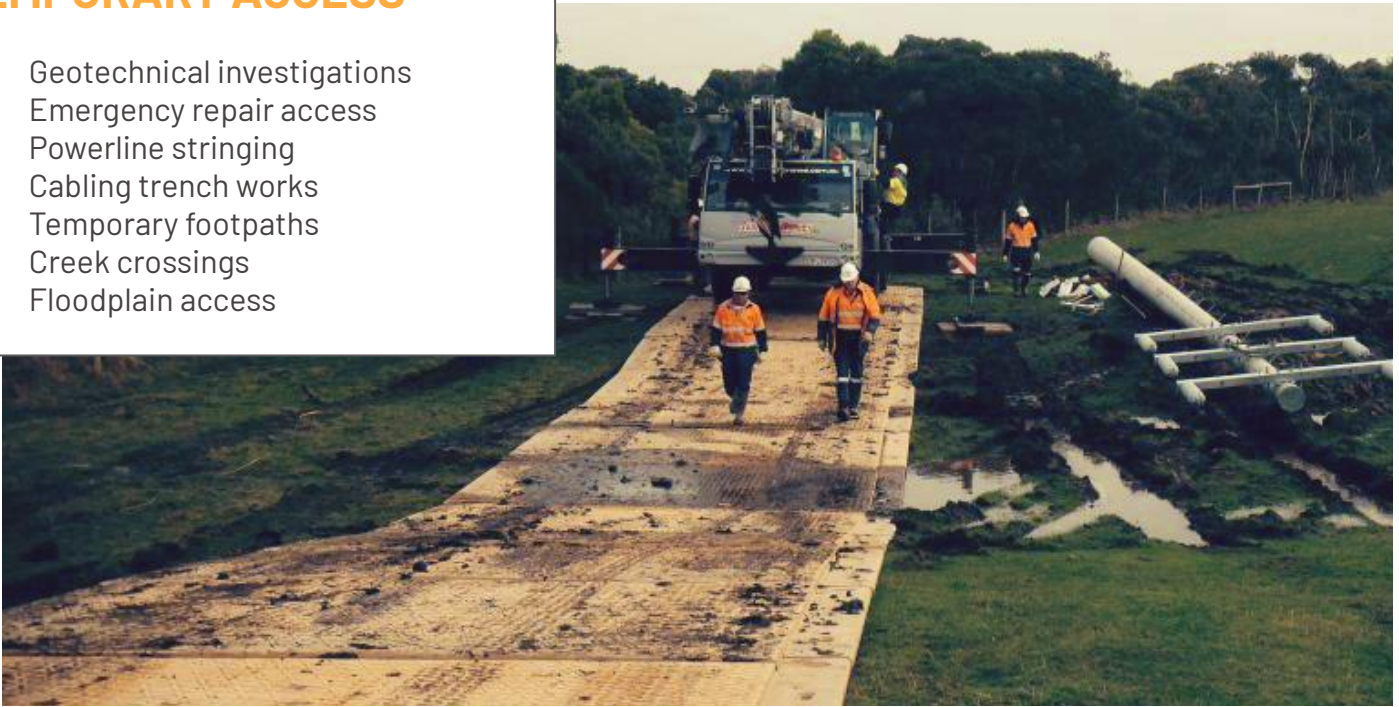
OUR SOLUTIONS

At JWA, we are with you every step of the way, providing access mats for your needs, whether it's for solar and wind farm construction, emergency storm-damaged line repairs and transmission projects.

We take pride in assisting construction projects to meet or beat their delivery timelines while minimising their impact to the environment and local communities.

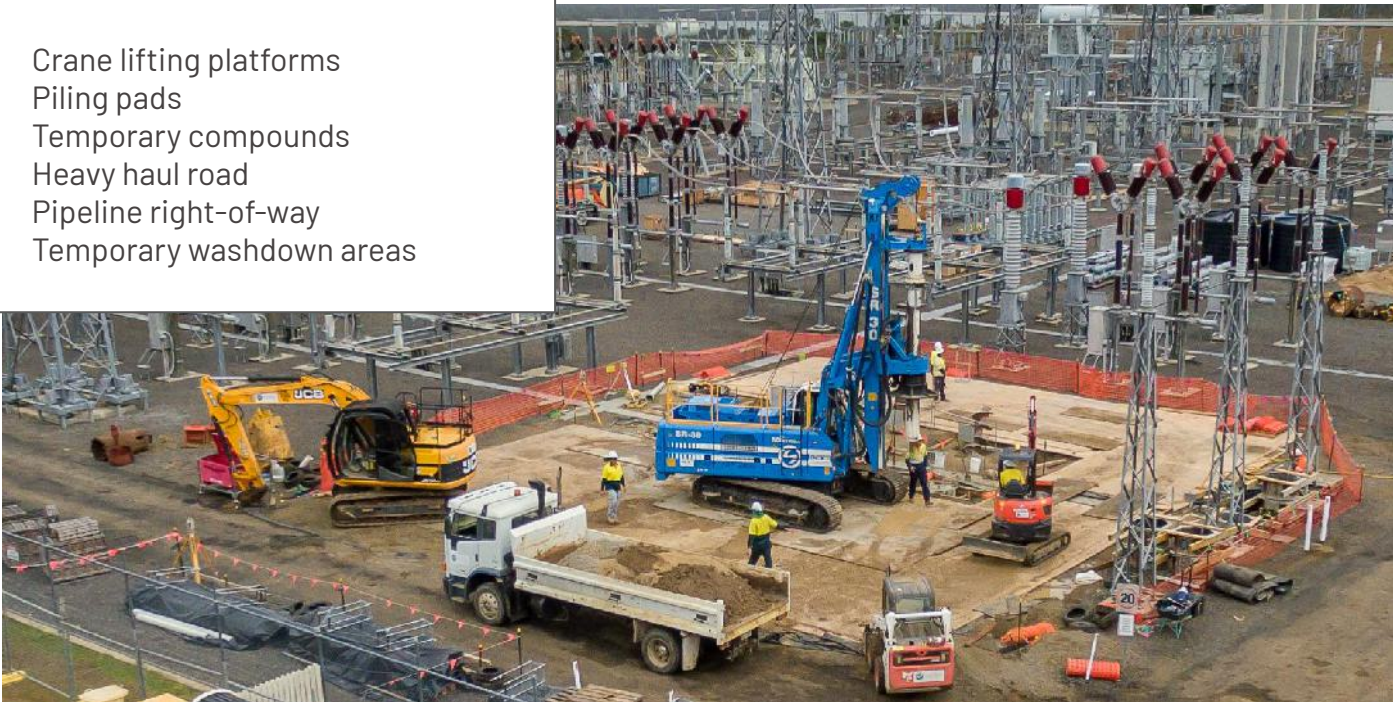
TEMPORARY ACCESS

- Geotechnical investigations
- Emergency repair access
- Powerline stringing
- Cabling trench works
- Temporary footpaths
- Creek crossings
- Floodplain access



STABILISED PLATFORMS

- Crane lifting platforms
- Piling pads
- Temporary compounds
- Heavy haul road
- Pipeline right-of-way
- Temporary washdown areas



OUR SOLUTIONS

EROSION & SEDIMENT CONTROL

- Construction vehicle track-out control
- Stabilised site exits
- Replacement of aggregates and imported fill material
- Keep soil and spoil contained on site



GROUND PROTECTION

- Working in Class A nature reserves, cultural heritage sites, environmental wetlands
- Landholder asset protection
- Hardscape protection
- Tree root protection
- Protection of underground pipelines and buried services
- Mitigate soil contamination



OUR PRODUCTS

Dura-Base® Composite Matting System

4.27m x 2.44m x 105mm, 454kg

Interlocks to give **maximum stability** for heavy equipment in soft grounds.
Maximum protection to prevent track ruts on environmentally sensitive sites.
Reusable over multiple sites saving on transport and imported fill.



FODS Track-Out Control Matting

3.66m x 2.13m x 95mm, 191kg

Reusable rumble mats to keep debris within site exits.
Installs on most surfaces with **no digging required**.
Tough on mud, gentle on tyres.



OUR PRODUCTS

Pro-Zone Composite Mats

1.0m x 1.0m x 75mm, 23kg

Interlocking man-portable mats for a flushed surface suitable for **footpaths and wheelchair access**. Near-instant walkways and workshop floors on grass, sand, and soft grounds **with little or no ground preparation**.



Pro-Tech Ground Protection Mats

Pro-Tech SD - 2.0m x 1.0m x 12mm, 27kg

Lighter, faster, and more compact.
1.2cm thickness for proven durability.
Designed for the Australian climate.

Pro-Tech HD - 2.4m x 1.2m x 14mm, 43kg

Heavier duty yet still man-portable.
For jobs with softer ground and larger machinery.
Designed for the Australian climate.



CASE STUDIES

Stockyard Hill Wind Farm

Location : Stockyard Hill, VIC

Client : Zinfra

Coverage : 12,400 m²

Contract Value : \$1.44M

Scope:

- Transmission line construction platform
- Powerline stringing access tracks
- Turbine construction hardstand
- Trenchworks access for underground line transmissions

JWA supported the successful construction of 149 units of Goldwind GS140 3s turbines, construction of a new terminal station at Haunted Gully, and connect over 74 km of transmission lines.

Challenges:

- Inclement weather affecting site conditions and project schedule.
- Cultural Heritage Site - areas with underlying archaeological significance as identified by the traditional landowners.
- Known habitat corridor of the endangered Striped Legless Lizard.
- Protection of native and endangered vegetation - Spiny Rice-flower and White Sunray.

Benefits of Composite Matting:

- Flexibility in installation - able to accommodate last-minute layout changes as the mats are easily removed and reinstalled.
- Minimal ground preparation and remediation.
- Waterproof and non-contaminating.





CASE STUDIES

Dulacca Wind Farm Grid Connection Works

Location : Dulacca, QLD

Client : Ergon Energy

Coverage : 4,700 m²

Contract Value : \$640K

Scope:

- Sensitive site access
- Powerline stringing access tracks
- Ground protection
- Work Platforms
- Soft ground access

JWA assisted in connecting the 180MW Dulacca Windfarm to the national electricity grid. The project required access and working platforms in sensitive agricultural land and Dura-Base® Composite Mats was selected as the cost-effective alternative to traditional crushed rock.

Challenges:

- Accessibility during rainy season and maintaining project progress.
- Minimising the impact and respecting integrity of private agricultural land.
- Ability to modify working platform as and when needed.

Benefits of Composite Matting:

- Resource conservation and emission reduction.
- Adaptable to on-the-fly layout changes, the mats are easily moved.
- All weather access.
- Minimised time on site for ground preparation, installation and remediation.
- Soil conservation and eliminated risk of cross-contamination.





CASE STUDIES

Dundonnell Wind Farm

Location : Mortlake, VIC

Client : Zinfra

Coverage : 11,000 m²

Contract Value : \$1.81M

Scope:

- Transmission line construction platform
- Powerline stringing access tracks
- Turbine construction
- Trenchworks access for underground line transmissions

JWA supported the wind farm construction consisting of 80 Vestas wind turbines across 4,500ha, as well as the construction of 38 km of transmission lines and a new substation.

Challenges:

- Presence of indigenous and exotic vegetation along transmission line corridor.
- Site home to Victoria's endangered Brolga.
- Accessing remote locations with various terrains including notorious buckshot soil.
- Supporting heavy traffic from 4WDs, CFA piling rigs, steel tracked trenchers, and telehandlers.
- Keeping valuable powerline stringing equipment and cable reels away from the mud.

Benefits of Composite Matting:

- Reusable over multiple locations.
- Minimise the use of extractive materials.
- Weatherproof - no washouts from heavy rain.
- Minimal ground preparation or remediation before demobilisation.





CASE STUDIES

Gin Gin Substation Rebuild

Location : Gin Gin, QLD

Client : NF Corbett

Coverage : 420 m²

Contract Value : \$15K

Scope:

- Wet weather mitigation
- Temporary piling pad and piling rig access

JWA safely delivered Dura-Base® Composite Matting as the solution for our client's objective of rebuilding a substation site without major resurfacing works.

Challenges:

- High-voltage environment.
- Heavy rainfall on-site with a sandy clay subsurface.

Benefits of Composite Matting:

- On-demand stabilisation for 30t piling rig.
- Reusable platforms supporting multiple piling locations.
- Weatherproof.
- Preservation of existing surface.



CASE STUDIES

Sunshine Coast Solar Farm

Location : Sunshine Coast Solar Farm

Client : Downer

Coverage : 3,200 m²

Contract Value : \$210K

Scope:

- Crawler crane access
- Crane lifting platform
- Temporary staging area
- Wet weather mitigation

JWA supported the successful construction of the Sunshine Coast Solar Farm, by supplying Dura-Base[®] mats which the project used as temporary crane lift platforms and mud-free staging area.

Challenges:

- The low lying field is prone to flooding and most of the work was to take place during the wet season.
- Due to the area being prone to flooding, using imported fill material would wash away.

Benefits of Composite Matting:

- Using Dura-Base[®] allowed the team to quickly deploy and redeploy the mats over several locations.
- By interconnecting the mats this allowed the Dura-Base[®] to be used to create a crane pad that evenly disperses the weight of the crane crawler with minimal preparation time.



CASE STUDIES

Ross River Solar Farm

Location : Townsville, QLD

Client : Downer

Coverage : 1,250 m²

Contract Value : \$80K

Scope:

- Mobile piling rig access
- Wet weather access
- Ground protection
- Machinery protection

During construction of the Ross River Solar Farm, a sudden 350mm rainfall event caused flash flooding, bringing progress to a halt.

Challenges:

- Following the flood, while the topsoil dried out, the underlying ground remained wet and unstable with potential hidden bog pits.
- Insufficient load spreading prevented machinery from operating safely, impacting the project schedule.

Benefits of Composite Matting:

- The Dura-Base[®] mats served as a stable base for constructing ground-mounted frames, allowing secure piling into the ground.
- The Dura-Base[®] mats prevented the machinery from sinking into the soft ground and causing damage to the vehicle.
- The project team was able to leap frog Dura-Base[®] mats to be reused over multiple areas of the site.
- Only very limited remediation was required after job completion.





SUSTAINABLE PRACTICES

At JWA, sustainability is a core priority that guides our operations. We embody the **Reduce, Reuse, Recycle** principles in everything we do. In our daily operations, we:

- Wash our mats after every job to maintain their pristine condition.
- Inspect and service our fleet after every job, which has enabled us to extend the lifespan of our mats by 5 years or more, from the manufacturer's stated 15 years to 20 years.



RECYCLING AND "END OF LIFE" PROGRAM

Our mats are 100% recyclable. When they reach the end of their life we clean them extensively to remove debris and other material that may contaminate the process, portion the mats small into pieces so that they can be accommodated by the recycling plant and then send them to a local plastics recycling centre.

We also introduced the "End Of Life" program for our clients who own their fleet and require assistance in responsible disposal of the mats that are no longer fit for purpose.

AUSTRALIAN MADE RECASTED PINS

Locking pins are vital for Dura-Base® installations as they prevent mat displacement.

As part of the "Pins Recasting" program, we remove the old, deteriorated plastic to salvage the steel shaft. We've collaborated closely with a local manufacturer to design pin molds and develop an improved quality resin mixture.

This program allows us to conserve valuable steel resources, while supporting Australian manufacturers and providing our customers with high quality locking pins.



SUSTAINABLE PRACTICES

We strive for continuous improvement of our facilities and embrace innovative, sustainable approaches. In our operations, we strictly adhere to the guidelines outlined in our sustainability policy and aim to exceed the required standards.



WATER TREATMENT

We recently overhauled our water treatment system at our headquarters, installing a PR Water unit to manage substantial volumes of contaminated water. The system uses flocculant chemicals to quickly sediment deposits. Through our collaboration with PR Water, we conducted tests to determine optimal chemical compositions for treating water from our bog mats, which return with diverse soil deposits. We took multiple water samples to a NATA Accredited Lab to ensure compliance with UnityWater discharge requirements.

POWERED BY RENEWABLE ENERGY

As part of our commitment to reducing the environmental footprint of our operations, we've almost fully transitioned our Brisbane facility to sustainable energy, harnessing Queensland's abundant sunshine. Our 80 solar panels (36kW), installed in 2021, has generated more than 50 MWh annually, reducing our grid consumption by two-thirds and supplying triple the amount of renewable energy back to the grid. Additionally, we utilise a battery unit to power our office appliances during night hours and have implemented various energy efficiency actions.



Other sustainable actions:

- We have conducted carbon accounting over the past 3 years, including calculating our scope 3 emissions, and are nearing our net zero goal for scope 1 and 2.
- We performed a yard audit for energy efficiency and implemented all recommended changes.
- We enhanced our sustainability policy to address work-related travel, ensuring all emissions from business travel are fully offset.
- We electrified operations where possible, including:
 - Switching to electric-powered high-pressure washers.
 - Using electric tools for servicing and mat repairs.
- We have introduced energy-saving measures, such as:
 - LED lighting replacements and motion sensor installations.
 - Building insulation upgrades for improved climate control and reduced energy consumption.
- We utilise a 30,000L rainwater tank for mat washing.
- We recycle and repurpose materials like steel and wood pallets, with our team creatively minimising waste by:
 - Building furniture from palletised wood.
 - Creating garden beds and veggie patches.
- We maintain a permaculture garden on our premises, growing fruit and vegetables for team's use.

ABOUT US

Established in 2003, JWA is wholly Australian-owned and operated, supplying projects nationwide from our purpose-built facility in Brisbane.

With beginnings in supporting oil and gas exploration projects, our specialised experience in providing temporary access, ground support and work platform solutions now assist infrastructure and construction projects all over Australia.

As the exclusive distributor of Dura-Base® Composite Matting for the Asia-Pacific region, we have over 170,000 m² deployed and over 50,000 m² available in Australia alone.

We are proud members of the Infrastructure Sustainability Council, and the International Erosion Control Association Australasia.

Our FODS Track-Out Control Matting received the Highly Commended Award in the 2020 IECA Australasia Environmental Excellence Awards, under the category of Excellence in Innovation, Contribution or Education to the Erosion and Sediment Control Industry.

Our products are part of ISC's iSupply directory and may contribute to projects aiming to fulfill credits in IS v1.2 Dis-4, IC-8, Mat-1, Was-1 & Was-2, and IS v2.1 Env-4, Inn-1, Rso-3, Rso-4, Rso-6.

JWA Composite Matting
ABN : 91 106 986 216



OUR STANDARDS

Safety, Environment, and Quality Management Systems

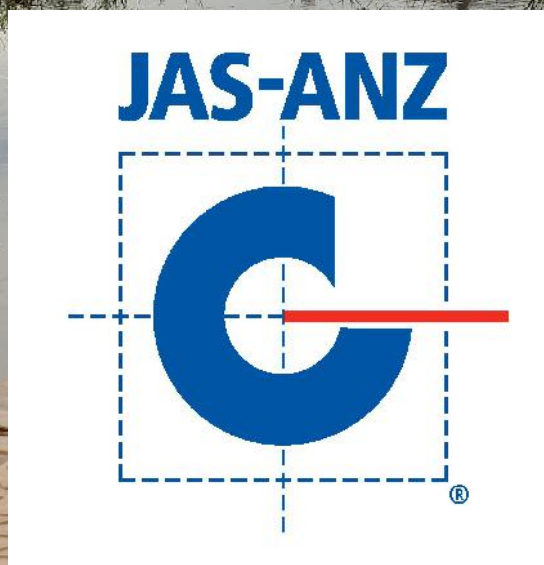
At JWA, safety, environmental responsibility, and quality are fundamental to how we operate. Guided by our **Health, Safety, Environment & Quality (HSEQ) Policy**, we are committed to eliminating hazards, minimising risks, and ensuring the well-being of all personnel while delivering solutions that exceed client expectations.

We take pride in having our operations certified to **ISO 45001:2018 (Occupational Health and Safety Management Systems)** and our facilities and business processes certified to **ISO 9001:2015 (Quality Management Systems)**. These certifications demonstrate our commitment to compliance, continuous improvement, and industry-leading standards.

Our team has a proven track record of delivering projects on highly regulated sites, maintaining strong controls around safety, quality, and environmental protection. Through our **Integrated HSEQ management system**, we aim to:

- Protect people and the environment by preventing harm, reducing waste, and using resources responsibly.
- Maximise efficiency by improving energy performance and minimising environmental impacts.
- Ensure compliance with all legal and regulatory obligations.
- Engage and support personnel through training, consultation, and feedback opportunities.
- Continuously improve our systems and performance through review, innovation, and collaboration with stakeholders.

This approach ensures that JWA consistently delivers safe, reliable, and sustainable solutions for our clients and communities.



OUR CLIENTS



- Ross River Solar Farm
- Sunshine Coast Solar Farm
- Dundonnell Wind Farm
- Stockyard Hill Wind Farm
- Lal Lal Wind Farm
- Badgingarra Wind Farm
- Metz Solar Farm

- Gold Coast Seaway Project
- CTGM Upgrade
- Pimpama to Coombabah STP Recycled
- Water Main Augmentation
- Donnybrook Wireless NBN Tower

and more...



CONTACT US

Our friendly team are here to help

Chat to us about your project scope today and find how our solutions can be applied to reduce the impact of the project on the environment while successfully meeting deadlines.

JWA Composite Matting

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Follow us on
LinkedIn, to stay
tuned for the
updates

With an extensive network of transport operators and suppliers, we provide **nationwide coverage** across Australia and Oceania, delivering mats to our customers wherever they are.



NOTES



When you need to find a way

1800 264 628 | 1800 BOG MAT

www.jwamats.com.au