



Titan Newsletter

Overheard Lines from The Reliable Titan

*'The Bushfire Proof Titan is the Power Pole of the Century.
Titan Reliability is Guaranteed'*

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Q&A Opportunity

Dulhunty Poles continue to provide the opportunity for Newsletter readers to access more Titan related information, or provide any comments they see fit to forward, through the enquiries email enquiries@dulhuntypoles.com

One of our team will respond as soon as possible to the individual email address provided.

All your contact details and the related correspondence will be treated with the utmost privacy protection.

? Did You Know?

that not all so-claimed composite poles are made of the same materials. On the Australasian market, only the Titan Pole is manufactured as bushfire proof – meaning it will not burn, melt or distort in a fire; is also termite and rot and rust proof and guaranteed for life.

Sustainable Electrical Switchgear Installations

Pole mounted electrical switchgear installations should form an integral and reliable part of the particular network's electrical protection/control systems.



Modern ESI switchgear devices are highly sophisticated components of a well-designed distribution system. It follows, that such an installation would itself be designed and constructed in a sustainable manner to provide this service, trouble free for as long as required. However, the actual overall structure underpinning these important devices in the field – the pole - may not always provide the ultimate level of long-term sustainability and reliability.

Using a network reliable Titan Pole as the switchgear foundation, will not only provide for sustainability of infrastructure for 70 to 100 years, but also provide the ultimate towards greater security of supply. This sustainability is provided through a number of Titan specific features, including (but not limited to) – totally bushfire proof; impervious to fungal decay, rust and vermin - is UV proof, non-conductive, eliminating pole top fires, and many more positive factors considered ideal in such an important structure.

The Titan can be drilled to customers pattern pre-delivery or in the field, and any control cables can be safely installed and protected within the hollow of the pole.

The low whole of life cost of the Titan, industry lowest carbon footprint, plus its industry leading durability features, (refer to Dulhunty Poles website for all test details), assists in ticking all the necessary boxes for such significant equipment.

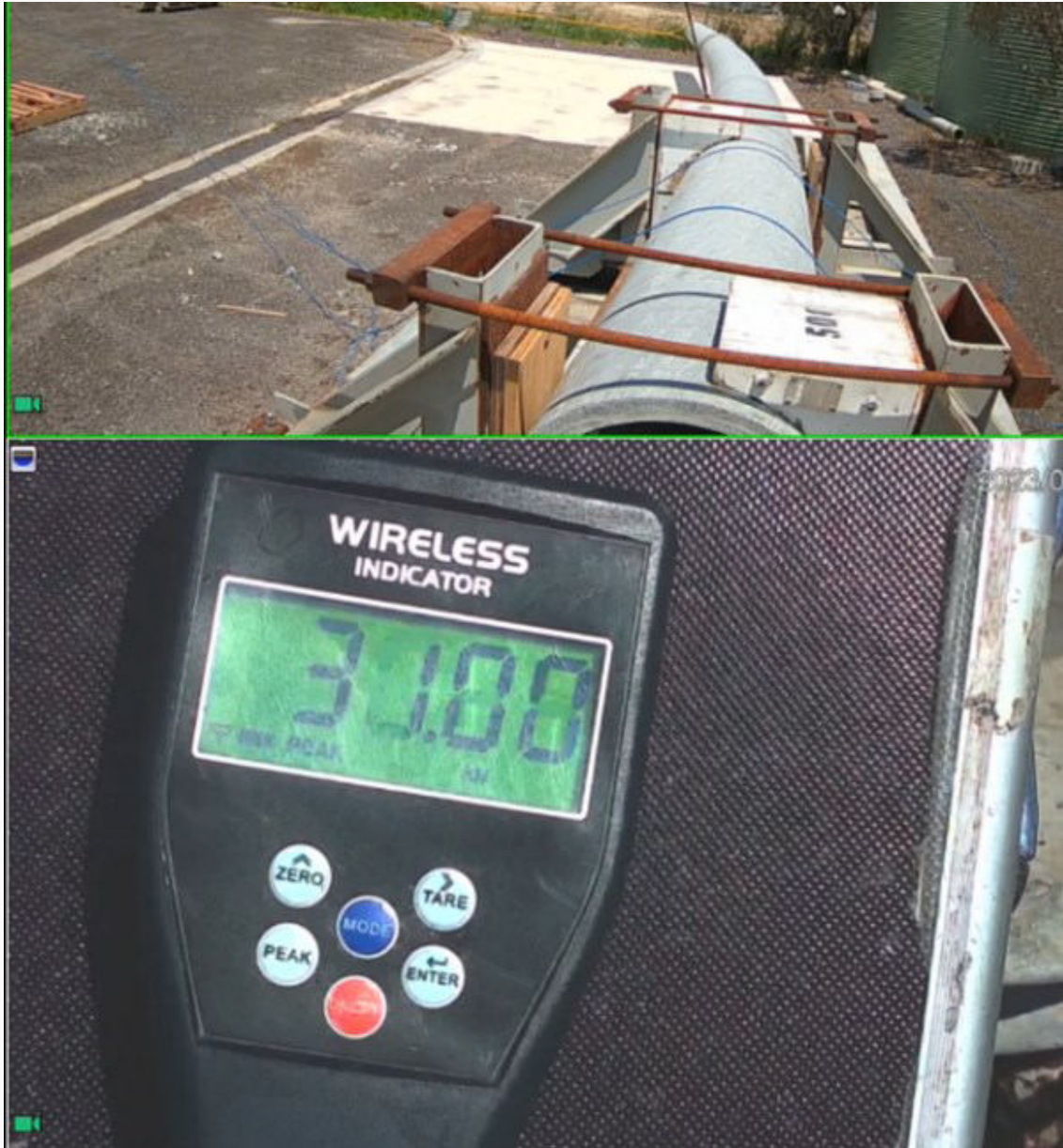
Dulhunty Poles support the initiatives of the United Nations Economical and Social Council in regard to sustainability in general – especially for critical infrastructure - ESI operational/equipment installations certainly fit that critical infrastructure category.

Engineered Poles

In the Dulhunty Poles world, the term Engineered Pole largely means that the innovative Titan pole is an engineer designed, fiberglass reinforced cement pole, manufactured typically in a wide range of standard use ESI pole sizes and strengths to suit industry needs.

Our engineers can also design and manufacture Titans in other unique design criteria to meet required customer specifications, and still adhere to legitimate industry standard requirements and Titan manufacturing parameters. This has usually occurred in the past where a customer has recognised the opportunity (in a financial &/or engineering needs sense), to think just a bit further outside the square, and request a one-off, innovative engineered Titan design.

All engineered Titan poles are subjected to Finite Element Analysis (FEA) for each specific design and when these parameters are satisfied to all involved, a prototype is manufactured and tested (including proven strength and deviation testing) to applicable industry standards and the particular design criteria. When compliance is achieved, the exact same formula pole(s), is then manufactured for delivery to the customer.



An example above of strength and deviation testing of an engineered 24kN (ultimate) /12.5m Titan prototype sample, which has achieved a breaking load above 31kN.

Because the delivered poles to the customer are an exact replica in all aspects of the previous successfully tested and approved Titan prototype, customers can be confident that what they originally agreed upon, is what they received through this engineered pole process.

All customer specific engineered design / test details are securely kept on file by Dulhunty Poles, and that very same pole type can be manufactured again at any time at the customer's request. The engineered pole process also allows for some modifications of this original design, but that variation will also be subject to stringent applicable testing criteria.

Dulhunty Poles are a huge fan of innovative outcomes – the Titan is proof that we are a house of innovation.

Make a difference – engineer your network for lifetime performance from the ground up, with Titans.

Sports Area Lighting - *Game, Set & Match to Titan*

The low cost, whole of life Titan Pole is ideally suited for a range of applications for the outdoor sporting world, from overhead lighting (playing field & public area floodlights), security systems, safety netting, banner displays and more.

The standout features of the Titan in this space are –

- Expected life of 70 to 100 years
- A high strength to weight ratio – economical to install
- Cables can be installed safely within the smooth walled hollow
- Easy to work with and install / attach fittings at pole top or on wall
- Bushfire Proof
- Will not rot, or rust / corrode
- Totally impervious to vermin including termites & borers
- No remedial chemical treatment required – ever
- Ideal for coastal environments – unaffected by salt air, saline ground, wet feet
- Effectively electrically non-conductive
- Can be manufactured in a variety of colours
- UV proof & lowest carbon footprint of all tested poles
- Standard sizes available and -
- Being an Engineered pole – Titan can be designed to suit exact requirements.

A recent installation of LED court lighting for a Victorian tennis complex was carried out using Titan poles, by electrical contractor and Titan Victorian agent, Steve Taylor Electrical.

The high strength to weight ratio of the Titan is shown below where only a small crawler crane unit and excavator was required to install the Titan lighting poles, especially where access is limited – creating the two fold benefit of no heavy equipment required on the sporting surface and a less expensive outcome for the projects bottom line. The manoeuvrability of the smaller mechanical plant influences directly on lower costs attributed to such Titan projects.



The fixing of equipment to the Titan is straightforward, given the material takes most standard fixing accessories; furthermore, our engineering staff will advise on attachment of any specific items if required. The below photos indicate the stylish simplicity of the finished job when equipment is fitted to the Titan, whether on the pole wall or at pole top using an engineered 20kN rated ferrule cap.



To discuss this tennis complex project or any other similar Titan based ventures in Victoria, Steve Taylor Electrical can be contacted through their website www.stevetaylorelectrical.com.au

Or direct on steve@stevetaylorelectrical.com.au or 0412 369 479

For enquiries for other states and territories please contact Dulhunty Poles on - enquiries@dulhuntypoles.com

Build it once in a lifetime using a Titan.

Did You Know?

Dulhunty Pole's factory is experiencing a substantial increase in Titan Pole orders of late and has dramatically increased manufacturing outcomes to historical record levels.

Customer Centricity and The Titan

We are noting comments lately that some ESI network operators are emphasising more than ever, that the fundamental overall focus behind delivering their product, is solely aimed at, and centred on, their customers' satisfaction – it is indicated that this customer centricity appears in all they do, from policy development right through to product delivery.

Dulhunty Poles appreciate the many pieces making up the overall network delivery picture required to achieve this desired, principled outcome and in particular, avoiding customer outages associated with network pole failures is sometimes difficult to accomplish

Nevertheless, we can help. This is precisely why the Titan was developed – to provide lifetime sustainability for overhead network structures.

Dulhunty Poles are perfectly aligned with customer centric outcomes and have been following this policy since our inception, where our focal point of everything we do, is the customer.

Our current customers find Titan Poles are an important part of their network permanency puzzle that can be relied upon for network security and safety and will definitely deliver their part in the customer centricity satisfaction outcome for many, many years into the future. Titan's no burn, no rot, no rust and industry leading low whole of life cost features are just part of the advantages for network customers.

We have a strong commitment to product improvement and innovation and pride ourselves in the dedication to our customers by providing them with quality, individual pre and post sales service.



A perfectly simple yet effective example of Dulhunty Poles' customer centric endeavours and customer acknowledgement, is in utilising a new extended truck tray to accommodate our two part poles to be delivered as a joined, longer one piece pole – saves the customer expense of joining them on site. This also reduces customer freight charges, where the alternative would be two truckloads of two-part poles sections; with freight charges increasing rapidly – and no relief in sight yet – Titan customers are very appreciative of this efficiency effort.

This extended tray logistic system is especially advantageous for transportation of Titan transmission poles.

For better long-term customer centricity and financial outcomes, do it once in a lifetime with Titans.

Risk Management to Risk Reduction to Risk Elimination

The 2015 United Nations Sendai Framework for Disaster Risk Reduction, guides governments and infrastructure owners worldwide on effectively ensuring that their infrastructure is reliable and resilient, and in Australia, notably so in bushfires prone situations. See link here: <https://www.undrr.org/implementing-sendai-framework/what-sendai-framework>



Dulhanty Poles embrace the SENDAI FRAMEWORK and the supporting *Build Back Better* model. We particularly encourage ESI network owners to invest in the future of their infrastructure by ensuring a better-quality product is provided at the first build back opportunity. This quality concept certainly equally applies to new network infrastructure, where risk elimination at the outset is imperative.

Emphasising this point and using the Australasian ESI distribution infrastructure as an example in this often occurring scenario –

1. Risk Management studies identifies the risk in the network infrastructure in the form of a burnable pole, specifically in a fire prone area
2. The fire risk materialises and destroys this section of the network infrastructure
3. *Build Back Better* occurs to eliminate that same risk by using a bushfire proof pole – a Titan
4. This particular risk is then eliminated and your overall network risk is reduced
5. Most Titan users then turn their attention to similar risks in their other fire prone areas.

To manage this risk in a responsible, long term satisfactorily manner, it is important to understand the vast difference between bushfire proof and fire retardant / fire resistant status.



A perfect example above of *Build Back Better* with two Titan HV transmission poles ready to replace the bushfire destroyed poles that represented the original risk – which is now to be eliminated.

It is just not financially rational to reintroduce that same (or similar) risk that just destroyed that part of your infrastructure. It has to be a bushfire proof pole and nothing less, or all the effort and expense outlaid to replace the original pole is wasted.

Through the *Build Back Better* model, the many built-in low cost, whole of life features of the Titan are an investment into reduction, aimed at eventual elimination, of risk and maintenance costs for the network, reflecting directly on the day to day running expense of the business.

? Did You Know?

All previous Titan Newsletters are accessible on the Dulhunty Poles website under the News tag.

Titan Protecting Wildlife

Dulhunty Poles are well aware of the issue of certain kinds of wildlife climbing wood power poles and coming to grief on the live electricity mains at the pole top. It is not feasible to insulate all live parts of a distribution system pole however, over the years gal tin guards have been manually wrapped around poles to prevent such climbing from happening.



The guards can be fitted to the Titan if thought to be necessary as in above photo, but we and most Titan users, believe they are unnecessary, due to the exceptionally smooth surface of the Titan.

Titan Poles are near impossible for animals to climb and we have never recorded any reported instances to the contrary.



The Titan is a wildlife friendly pole.

Get a Better Feel for the Reliable Titan

Dulhunty Poles offer to those interested, free Titan sample pieces in an attractive desk-top pen holder. They illustrate Titan's lightweight fireproof features, natural robust structure, and ready drill-ability. If interested, please simply reply to this email, and provide your name and a postal delivery address to receive your free sample.



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