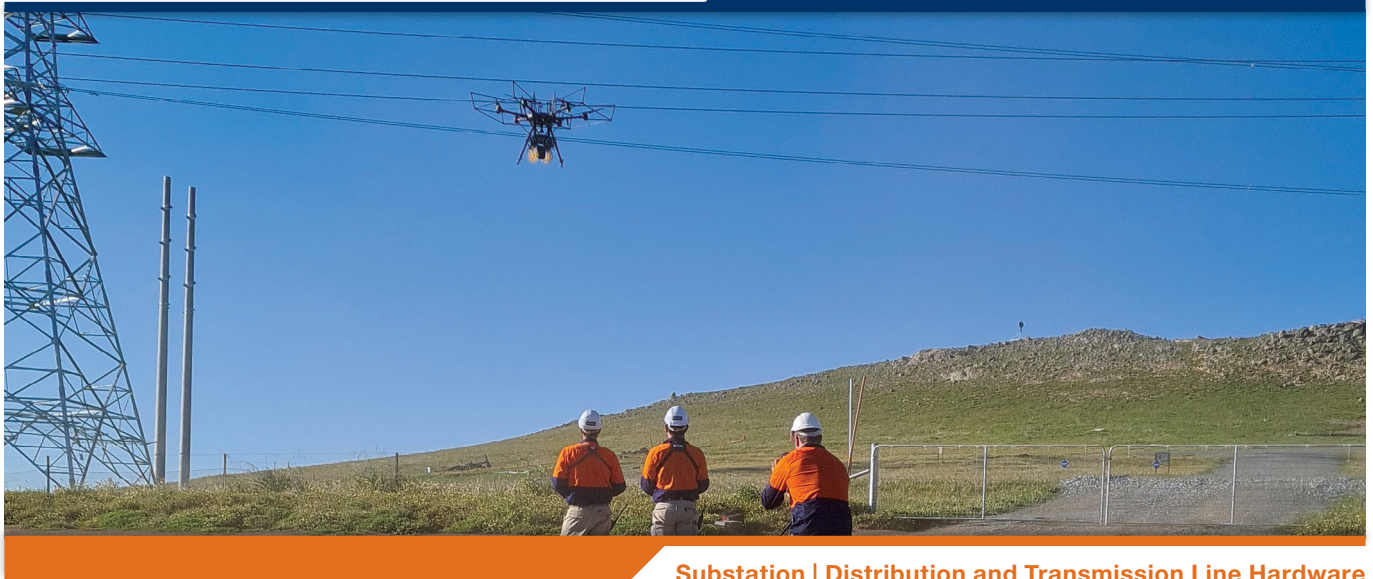


PLP Project Profile



Substation | Distribution and Transmission Line Hardware

PLP Bird Diverter's installed by Drones at Stockdill Substation

Project Overview

The PLP RAPTOR CLAMP™ Diverter is designed to increase the visibility of overhead lines and reduce the incidence of bird collisions with overhead cables. Extensive field studies have shown that bird diverters significantly decrease bird strikes.

Bird diverters are usually installed using Aerial Work Platforms (EWP's) or Helicopters.

In NSW Helicopters are banned around transmission lines and TransGrid was looking for an innovative way to install bird diverters with speed and efficiency.

The PLP Solution

PLP in collaboration with Infravision developed the installation attachment and the electronics required for the drone to complete the task.

Many hours were spent testing, developing and training the drone operators to perform the techniques required to install the bird diverters onto the earth wire 45 metres above the ground.

PLP engineers also designed the clamp arrangement for the overhead Transmission Lines.

This project was the first of its kind in the southern hemisphere and is leading the way for other innovative developments utilising drone technology.

Other PLP Developments

Other PLP developments utilising drone technology include a comprehensive inspection service for transmission and distribution line hardware.

A real time reporting dashboard enables the client to see collected data, images and the progress of the inspection as it happens. A comprehensive report is provided for the customer.

PLP Benefit

PLP Australia In conjunction with PLP USA and Infravision conducted extensive testing on the drone's installation attachment.

The fine tuning of the drone attachment allowed the installation to be carried out with minimal risk, reducing environmental impact and the time required for the installation, increasing efficiency and productivity.

Bird Diverter Features

- › PLP's Installation Service is available using drones
- › Easy 'bump and snap' installation on the cable
- › No special tools required
- › Simple, cost-effective design
- › Lightweight (total weight = 158.7 grams)
- › Manufactured from UV-stabilised polycarbonate and polyethylene materials
- › Metal hardware is corrosion-resistant stainless steel
- › Optional flashing RAPTOR-LED design available

Project Name

330/132kV Stockdill Substation – Drone Raptor Install

PLP Products Supplied

PLP RAPTOR CLAMP™ (Bird Diverters)

Drone Partner

Infravision Australia

Utility Owner

TransGrid

Site Location

Canberra, Australia

Youtube Videos

[PLP, Infravision and TransGrid Video](#) | [PLP Video](#)

