PROFESSIONAL PROFILE
Tony Freeney – Senior Electrical Designer

Introduction

Tony is a professional designer with eight years' experience working as an overhead and underground power line designer for both utility and consulting companies.

He has a very strong background in modelling overhead power lines using industry-recognised software PLS CADD to the latest AS/NZ 7000 Standards.

In addition to his electrical designing experience, Tony worked on large scale utility infrastructure relocation projects for light rail and metro projects in Europe.

Qualifications

- *Environmental Awareness Training; TAFE NSW, Western Sydney Institute*
- *PLS CADD Certificate; Dulhunty Power, Australia*
- *National Certificate Education Association (NCEA) in Technical Engineering; Dublin Institute of Technology, Golton Street, Dublin 1, Ireland*
- *City and Guilds in Technical Engineering High Diploma; Dublin Institute of Technology, Bolton Street, Dublin 1, Ireland*
- *Higher Diploma in Mechanical Engineering; Dublin Institute of Technology, Bolton Street, Dublin 1, Ireland*
- *High Diploma – Engineering Draughting; FAS Ireland*
- *Diploma; St Declans College, CBS Nephin Road, Dublin 7, Ireland*

Project Experience

Roads and Maritime Services

- *Realignment of existing Essential Energy transmission and distribution networks to facilitate the construction of the Pacific Highway. Warrell Creek to Urunga 42 km; Tintenbar to Ewingsdale 25 km*
- *Ballina Bypass; overhead; approximately 8 km (multi-projects, realignment of existing 66/11 kV network to accommodate the construction of the Ballina bypass section of the Pacific Highway Upgrade*

Transmission and Distribution Projects

- *South Catherine Fields; Route options report, concept design and MOS submission for relocation of 132kV Endeavour Energy transmission line to allow development of large subdivision*
- *North Penrith (Thornton); Project Management, concept and final designs for large scale mixed-use subdivision*
- *ALDI Kellyville; Design for relocation of overhead 33kV to accommodate new road alignment.*
- *Armidale 66kV Ring Feeder – Thermal Upgrade: assessment and mitigation including design of 27km existing line.*
- *Gardiner Road – Wagga Wagga: Upgrade approx. 2.5km of 33/11kV overhead to 66/11kV overhead to accommodate expected load growth.*
- *Koolkhan to Maclean: Overhead; 42 km new 66 kV feeder designed to 132 kV future rating from Koolkhan Maclean Zone Substations; design completed in PLS CADD to AS/NZ 7000 utilising concrete and steel poles.*

- *Eden Park Gardens, Coffs Harbour; 1.4 km undergrounding of existing 66 kV overhead lines to accommodate the construction of large subdivision.*
- *Pinehurst Court, Alstonville; 800 m undergrounding of existing overhead 66 kV line to accommodate the construction of a large-lot subdivision.*
- *Sapphire Beach, Coffs Harbour; 800 m realignment of existing 66 kV overhead line to accommodate the construction of an access road to large Sapphire Beach subdivision.*
- *Kennedy Drive, Tweed Heads Shire Council; approximately 200 m of 66 kV realignment to accommodate realignment of Kennedy Drive.*
- *Waterford Park Goonellabah; 1.6 km undergrounding of existing 66 kV overhead lines to accommodate the construction of a large subdivision.*
- *Gullen Range Wind Farm Goulburn; interconnection of POM 23 and GUR 01 turbines via dual circuit 33 kV overhead line.*
- *Upgrade of existing Essential Energy distribution networks; assessment and redesign of rural feeders to meet Essential Energy capacity requirements. Matheson 5.7 km; Red Range 7 km; Bolivia 11.5 km; and Ebor 8 km.*

Department of Defence

- *Evans Head Bombing Range; design for installation of permanent 11 kV underground feeders through defence lands to control centre. 5 km.*

Land development

- *Huntlee, Branxton; masterplanning, project management and design for mixed use major sub development consisting of 7500 residential, commercial and recreational units.*