

Powering our community: understanding underground power and primary equipment

Underground power is transforming our energy landscape, driving a future where clean energy thrives. This shift not only elevates the reliability and safety of our electricity supply but also enriches the visual appeal of our streets and supports property values. It's a key technology for embracing electric vehicles and meeting the growing energy demands, including electrification needs of our community.

We're committed to the shift to underground power for a host of community benefits:

- **Enhanced reliability:** Less susceptible to weather and accidental damage, ensuring consistent power supply.
- **Safety first:** Reduced risks with no overhead lines.
- **Visual appeal:** Tidy streetscapes free of poles and wires, boosting property aesthetics and value.
- **Greener growth:** Supporting the integration of renewable energy and emerging technologies like electric vehicles.
- **Prepared for tomorrow:** Ready for the growing power needs and smart solutions of the future.



Anzac Terrace, Town of Bassendean

The heart of the system: primary equipment

Integral to this evolution is primary equipment. This isn't just hardware; it's the linchpin that channels electricity into our homes and businesses. Primary equipment has the following role:

- Ensures a stable connection for your electrical needs, swiftly reconfiguring networks during outages.
- Localises faults, affecting fewer residents during disruptions.
- Adapts to community power demands with automated switching between circuits.
- Enhances voltage regulation, ensuring a stable energy flow to homes and businesses.
- Provides data to help us make decisions about our community's energy needs.

Types and placement of primary equipment

When moving power lines underground and removing poles, other gear needs to come down as well! These various primary equipment types are:

- **Transformers:** Converting higher voltages to a safe level for your home and local businesses.
- **High voltage switchgear:** Protecting the system's integrity and allowing nimble maintenance without extensive outages.
- **Low voltage kiosks:** Distributing power to multiple premises, designed for quick recovery from faults.



Stanbury Place, City of Melville

Choosing the right spot

Selecting locations for primary equipment is a meticulous process. We consider technical needs, environmental impacts, safety, and social impacts, working alongside the Local Government. Each site is chosen with precision and care, often nestled in less intrusive public areas, or discretely integrated into the landscape.

Constructed with care

Each site has its unique installation requirements. We adhere to stringent standards and attempt to minimise construction impacts like noise and dust, all while ensuring public safety.

Visual and auditory harmony

Primary equipment is housed in green cabinets, with options for Local Governments or community groups to screen or apply artwork to the equipment so it merges with the aesthetics of the local environment.

Noise is kept to a minimum, with all installations complying with environmental noise regulations to maintain the tranquillity of your surroundings.

Your safety, our priority

Safety is non-negotiable. That's why our equipment is secured within robust, lock-protected cabinets made from materials that adhere to the highest Australian safety standards.

Underground power and primary equipment aren't just about an enhanced electricity supply; they represent a commitment to a sustainable community. For detailed information on underground projects in your area please visit our website or reach out to us directly. Together, we're energising our future.



Warwick Park, City of Canning



Dumond Park, City of Canning



General enquiries **13 10 87**
Emergencies **13 13 51**

TTY **1800 13 13 51**
TIS **13 14 50**

363 Wellington Street Perth 6000
westernpower.com.au