



Creating customer choice by being  
the world's best microgrid company

**HORIZON**  
**POWER**  
*energy for life*

## We work with our customers to eliminate barriers to new energy innovations

### Who we are

Horizon Power generates, distributes, and sells electricity to more than 47,000 customers, supplying over 100,000 residents and 10,000 businesses in regional towns and remote communities across Western Australia.

We're a Government Trading Enterprise and we operate across the full energy supply chain – generation, distribution and transmission, and retail services. Our operations cover a vast service area, approximately 2.3 million square kilometres of rugged terrain, which means we service the biggest geographical area with the least amount of customers in the world. For every 53.5 square kilometres of terrain, we have only one customer.

Our vision is to create customer choice by being the world's best microgrid company and our purpose is to provide *Energy for Life*.

### We're at the forefront of energy innovation

The energy industry is undergoing an unprecedented period of change, driven by customers adopting new technologies like solar PV systems and batteries, as they seek to play a greater role in how they receive energy and engage with their energy provider.

The Energy Networks Association and CSIRO have forecast that by 2030 about 50 per cent of the electricity produced will come from consumers, mainly generated by rooftop solar PV systems and batteries.

Horizon Power is exploring a future where electricity is generated by households and industry using rooftop solar, batteries and standalone power systems which can be incorporated into the electricity network or microgrid systems.





We're investing in our capabilities to transform from a traditional electricity provider to a more responsive business that enables new energy resource opportunities and ensures everyone wins from the new energy economy – individual customers, and the community.

Our strategy is to use our unique position as a vertically integrated operator to increase distributed energy over time and to provide customers with more choice and control as to how they receive, manage and buy electricity from us.

We've started this journey and have developed a set of system blueprints outlining the most economically efficient way to generate and supply electricity to each of our 32 microgrid systems, located in the East Kimberley, West Kimberley, Gascoyne and Mid West and the Esperance and Goldfields regions, whilst ensuring our interconnected grid in the Pilbara remains cost efficient and reliable.

We are predicting a highly centralised, highly distributed business future with each blueprint providing a framework to determine when to switch each microgrid or system to a new supply model. Work has already begun in some of our systems, like Carnarvon and Onslow, where we are increasing the penetration of renewables through the installation of distributed solar and energy storage.

Future options for supply include:

- Centralised generation – the conventional model where greater than 50 per cent of energy is delivered via a traditional power station.
- Distributed energy resource (DER) – where greater than 50 per cent of energy is delivered by smaller power sources like batteries and advanced renewables.
- Standalone power systems (SPS) – customers to self-supply without the support of the network.



**We not only serve our communities, we are part of them**

## In the region, for the region

We've been operating in regional and remote communities across Western Australia for more than 60 years. We not only serve our communities - we are part of them. We live and work in the region we service which is why we call ourselves your *Local Energy Partner*.

We operate in the Pilbara, Kimberley, Gascoyne, Mid West and the Southern Goldfields, Esperance, Hopetoun and Norseman. We have depots based in the regional towns of Karratha, Broome, Kununurra, Carnarvon, Esperance and Port Hedland, with administrative support to the regions delivered from Perth.

Our decentralised delivery model ensures we have a presence on the ground so that we can respond immediately to local issues and tailor our services to customers' individual requirements.

We employ people who live and work in the community and who intimately know their energy needs.

### How we do it

The way we generate electricity varies between our major interconnected systems and microgrids, or isolated systems, with most regional towns supplied by gas and smaller remote communities by diesel. Increasingly, renewable forms of energy like solar are also being integrated as outlined in our system blueprints.

We maintain three systems connected in the East Kimberley (Kununurra, Wyndham and Lake Argyle), two rural systems (Esperance and Hopetoun), the North-West Interconnected System (NWIS) between Port Hedland and Karratha, and 32 microgrid systems.





Horizon Power provides the towns of Marble Bar and Nullagine with electricity generated by solar diesel hybrid power stations. The remote Kimberley community of Yunggora (Noonkanbah) is also generated through a solar diesel hybrid power station.

The new 18 megawatt Mungullah Power Station in Carnarvon uses both diesel and gas-fuelled generators and incorporates renewables to serve the growing needs of the local community.

In Hopetoun, Esperance, Coral Bay, Exmouth and Denham, electricity is also supplied by wind farms which are connected to traditional generators.

Horizon Power recently invested \$20 million in the East Kimberley, upgrading the network and power station to improve reliability and the safety of assets for customers in the region.

In the Pilbara, we installed 60 megawatts of generation and an additional 110 megawatts of electricity was made available from August 2017 through the TransAlta Power Station.

Horizon Power owns assets valued at \$1.6 billion and undergoes a significant asset maintenance and replacement program to ensure the sustainability of our systems.

Being a part of the local community allows us to be connected to what really matters

## Supporting our growing communities

At Horizon Power, our role is much bigger than providing electricity to customers – it is providing the basis for health, safety, education, economic growth and self-determination.

We develop partnerships with community organisations which have activities, interests and values compatible with our own. We aim to support a broad range of not-for-profit organisations and events that encompass areas of strengthening communities, environment, education and training, arts and culture, business development, sporting development, safety and well-being.

From local athletics and netball competitions to annual business awards and festivals, we support the events and initiatives that create a lasting value for our communities.

Being a part of the local community allows us to be connected to what really matters – creating a sense of place for everyone to enjoy. We foster education delivery and employment opportunities for people in our remote communities through our Remote Community Utility Worker program and support economic development in remote Aboriginal communities.

### Here for the future

As your local energy partner, we are dedicated to refining our products and services to meet and exceed customer needs in a rapidly changing environment. We are defining the future, investing in our capabilities with a purpose and strengthening our competitive advantage. By being innovative and customer focused we will achieve our vision of creating customer choice by being the world's best microgrid company.





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