

## Case Study

# Oxiana Prominent Hill HV Transmission Line & Substation

### Project Details

**Client name**

Oz Minerals (formally Oxiana Pty. Ltd.)

**Order date**

December 2006

**Delivery date**

July 2008

**Contract Type**

Design & Construct

**Contract value**

\$100 million

**Key Personnel**

Project Director - Len Schoots

Project Manager- Stuart Scott  
Construction Manager PH & 132kV  
Line - Brett Carter

Construction Manager Olympic

Dam - Dirk Vander Neut

Senior Project Engineer - Kellie  
Caimanos

**“Enerven worked with the client and key stakeholders to address 132kV transmission line connection issues in an innovative, consultative and proactive manner**

### The Customer

OZ Minerals engages in exploration and mining of various commodities including copper, gold, nickel and zinc. OZ Minerals is Australia’s third largest copper producer with demonstrated commitment to safety and developing quality assets.

### The Opportunity

The Prominent Hill Mine is a major copper, silver, and gold mine in north west South Australia, 130 km south-east of Coober Pedy, which has been developed by Oxiana Limited, later to become OZ Minerals. The deposit is an iron oxide copper gold style mineralisation.

Oxiana Limited decided to develop the mine in August 2006, and required a number of new assets to be designed and constructed to connect the mine site to the electricity grid.

### The Solution

The project was spread over 185km from the Olympic Dam Mine site to the new Prominent Hill Mine site.

The scope of work included:

- 185km of 132kV Tower Line
- Connection into the Olympic Dam West Substation
- Installation of a new 275/132kV 140MVA transformer into

Olympic Dam West Substation

- Development of a new 132/11/33kV 40MVA substation at the Prominent Hill Mine site
- Approx 170km of 33kV line to supply the mine site borefield.

The project also includes the installation of two independent 32-man camp sites, established for personnel working on the transmission line construction.

### Key Project Successes

- Zero LTIs over 136,000 man hours worked
- ‘Fast track’ mining experience for major project;
- Ability to undertake work in a remote location and associated logistics;
- Establishment and management of remote work camps and facilities to accommodate staff;
- Detailed planning and coordination across two geographically dispersed work sites (spread over 300km);
- Working collaboratively with the client and third parties (eg. BHP Billiton) in addressing 132kV transmission line connection challenges in an innovative, consultative and proactive manner; and
- Proactively working with the client in overcoming and managing environmental and cultural heritage requirements





### Key Capabilities

This project highlights Enerven’s ability to deliver quality design & construction projects through established procurement processes, professional project management, competent engineering, and our ability to collaborate with our customers and contractors to deliver custom solutions.

### Why Enerven?

Our experience in the market place, combined with expertise and industry knowledge, makes Enerven attractive to industry leaders such as Oz Minerals, Lendlease, AGL and BHP Billiton for their energy infrastructure needs.

Enerven invest heavily in the latest technology and the professional development of our staff, which means we combine experience and history with innovation and technology to deliver solutions that address the evolving energy distribution requirements of the community.

With a strong supplier and partner network behind us, our highly

skilled staff work closely with you to fully understand your specific needs and vision, and will tailor a solution to suit.

Delivering the highest standard of work in a safe and environmentally sustainable manner is our top priority, and we have an outstanding track record to prove it.

We focus on building long-term relationships with our clients, we’re committed to working with you for the lifecycle of your project and beyond.

### Who We Are

**Enerven, an SA Power Networks Company, provides a range of construction and maintenance services, included HV transmission line construction, to clients both within SA and nationally. We believe innovations and technology will continue to drive efficiencies, but no more so than the experience, knowledge and capabilities of our people.**

### Contact Us

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