

# Challenging retrofit solution for Genesis

Case Study Asset Management & Services  
Retrofit





**The retrofit project was successfully implemented on schedule and within budget.**



#### **The company and the challenge**

Owned by Genesis Energy Limited, Huntly Power Station is the largest thermal power station in New Zealand and has 4 gas/coal-fired generating units with an installed generation capacity of 950 MW.

Leakages in several insulators of the oil-insulated outdoor sealing ends led to a replacement request by the customer. However, the existing HV oil-insulated cable system itself needed to remain in use due to cost-related factors.

#### **The Brugg Cables solution**

Brugg Cables developed a professional retrofit solution, which included engineering, logistics, tools and on-site installation. The spare parts used were adapted to the requirements of the existing oil-insulated cable system. The outage period for the Brugg Cables retrofit works had been only 9 days.

#### **Hardware and equipment**

245 kV outdoor sealing ends with porcelain insulators and special base plate adaptors as well as head fittings were delivered and professionally installed.

#### **Customer feedback**

“ Genesis are very impressed with Brugg’s innovation, design, planning and implementation of this retrofit cable sealing end project. The solution avoided the need for a costly 220 kV oil-insulated cable replacement and a longer outage duration. Thanks to Brugg, this retrofit was successfully completed with minimal disruption to plant operations. ”

Genesis Energy Ltd.



**The new outdoor sealing ends were mounted onto the existing oil-insulated cable system using special base plate adaptors.**

### Brugg Cables

Brugg Cables is an innovative Swiss cable manufacturer with an extensive range of services in the field of power transfer and distribution. Founded over 120 years ago by Gottlieb Suhner, Brugg Cables has become one of the world's leading cable manufacturers. It is our strong customer orientation and the expertise of our employees that continue to set us apart as a company. We focus on innovation and outstanding Swiss quality – and have done so since 1896.

### Cable projects

Brugg Cables is the high-performance partner for high-voltage cable projects. From planning, production and logistics to installation and commissioning. As a general contractor, we coordinate all trades, monitor all phases and, with our experts, are the central point of contact for the customer on site.

### Asset Management & Services

Our Asset Management & Services package is specifically designed for the demands of energy suppliers, transmission system operators and electricity customers in the high and extra-high voltage sector. This encompasses diverse services to ensure that the planning, construction, operation and maintenance of high-voltage cable systems is safe, efficient and cost-effective.

