

CLP Power Employs Horizontal Directional Drilling (HDD) Technology to Build Undersea Crossings

To cater for the electricity demands in Ma Wan and Sham Tseng, CLP Power has laid cables under the the Kap Shui Mun and the Ma Wan Channels using the HDD method.

The method was considered the best to the environment and traffic across the channels. Small ducts was installed deep under the seabed using a precisely-controlled drilling rig, after that cables are drawn through these ducts.

With a total length of 5800 metres, this is the world's longest HDD power cable installation. It is the first time such technology is used in Hong Kong for transmitting electricity.

Advantages of this method:

- Environmental friendliness – minimize noise, air, water and dust pollution, no effect to marine ecology
- No disturbance to marine traffic
- Able to go through hard rocks
- Enhanced reliability of the cables
- Shorter project lead time

Thanks to the effort and support of various parties, the whole work was completed as scheduled this February.

