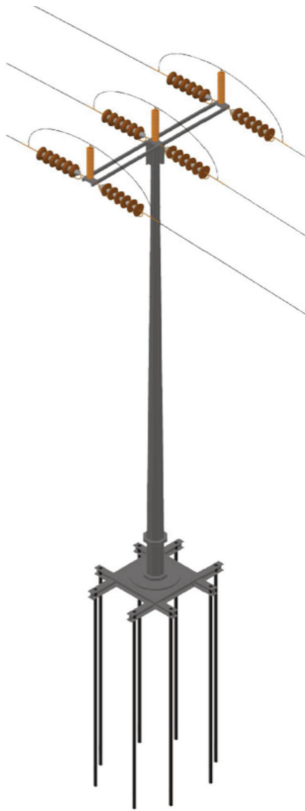




British Power International has developed the innovative Protean system— ideal for either the replacement for existing Overhead Lines or the development of a new line.



The client is able to customise the design at the concept stage. At the outset, the following are user definable:

- The number of circuits
- Conductor size and operating temperature
- The requirement for a conductor shield
- Communications conductor together with the basic span and maximum structure height
- Angle and terminal structures do not require stays

The Protean system uses a unique hinge system that enables the mast to be assembled at ground level with all insulators and fittings then raised to a vertical position using a ram, ready for the conductor system to be attached.

To support the Protean design BPI can use its specialist LiDAR aerial survey system to undertake detailed overhead line route surveys and post process the LiDAR data to provide high accuracy profiles to spot the Protean structures and conductor system.



The Protean design pack:

The Protean system is designed to meet the specific requirements of the selected overhead line route. A complete design pack is produced for each design, containing as a minimum the following drawings and documents:

- Overhead line route maps
- Overhead line profiles
- Protean structure setting out coordinates
- Engineering compliance document
- Erection sag and tension document
- Protean general arrangement and erection drawings
- Protean foundation design with drawings and calculations
- Design risk management schedule
- Protean fixtures and fittings document
- Geotechnical survey data
- Installation method statements
- Access maps with working areas

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