



CONTESTABLE CONNECTION SERVICES

A leading provider of power infrastructure







#### WHO WE ARE

We are a subsidiary of Northern Powergrid Holdings Company, which is a wholly owned subsidiary of Berkshire Hathaway Energy; a leader in the supply and distribution of energy in the UK and US consumer markets.



- » Revenues: \$12.6 billion » Assets: \$70 billion
- » Customers: 8.4 million electric and natural gas worldwide
- » Natural Gas Pipeline: 16,400 miles » Employees: 19,700 worldwide



IUS are Part of the Northern Powergrid Holdings Company

- » Customers: 3.9 million » Employees: 2,500
- » Network: 31,000 substations » 18,000 miles of overhead lines
- » 40,000 miles of underground cable

#### WHAT WE DO

We are a specialised turnkey contractor that offers a wide range of services to a number of key market sectors throughout the UK and overseas including:

- » Electrical connections
- » Private network services
  - High Voltage installation works
  - Operation & maintenance agreements
- » Multi Utility connections
- » Utility network service provider
- » Rail power projects
- » Emergency response 24/7/365

We work on public and private electrical distribution systems for Distribution Network Operators, the Independent Connections market, the Multi Utility housing market, Water and Health authorities, Government institutions, as well as Education establishments, Pharmaceutical, Chemical, Manufacturing, Retail and Construction industries. In addition IUS also undertake a range of services for the Transportation and Rail sector.



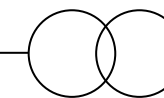
#### CONTESTABLE CONNECTION SERVICES

IUS are well established in the contestable connections market with over 10 years experience since the Office of Gas and Electricity Markets (Ofgem) introduced competition into the electricity connections market transforming the way in which connections are delivered across the UK.

Today's market affords customers the choice of seeking competitively priced connections from either Independent Distribution Network Operators (IDNOs), suitably accredited Independent Connection Providers (ICPs) or long established Distribution Network Operators (DNOs).

We operate in the competitive connections market as an ICP utilising our specialist resource and knowledge of distribution systems to deliver the very best connection solutions across the UK.





## OUR ELECTRICAL CONNECTION CAPABILITY

- Electrical design of distribution networks
  - LV cable to industrial, commercial & domestic properties
  - HV cable networks (11kV – 132kV)
  - Substations (11kV – 132kV)
  - Overhead wooden pole networks (LV – 66kV)
- Cable laying
  - LV, 11kV, 33kV, 66kV, 132kV
- Cable jointing
  - LV Dead, LV Live, 33kV, 66kV
- Overhead line (wooden pole)
  - LV, 11kV, 33kV, 66kV
- Substation installation
  - 11kV, 33kV, 66kV
- Final connections to DNO networks
  - LV mains and services
  - Metered supplies
  - Unmetered supplies

**If you are considering a new connection to a development or increased capacity connection to existing premises we can provide you with a complete service from recommendation, feasibility, design and build through to hand back to adopting network operators.**

**With an expansive portfolio of completed connection installations you can be confident our connection solutions will not only meet your requirements but also the exacting standards demanded by the UK's distribution network operators.**

### FEASIBILITY & DESIGN

As a developer, architect or contractor, our experienced staff are on hand to guide you through the connection process.

Whether your need is a simple Low Voltage network connection or highly complex Extra High Voltage substation connection, we can provide a service that's right for you.

Our in-house design team will work with you to survey and design all aspects of your connection in order to develop the best solution that meets your needs.

Our documented design management process defines quality system requirements and establishes and maintains a consistent approach to the design of electrical networks.

This ensures suitably qualified and experienced staff are engaged on the design, prevailing standards are adhered to and finalised designs are checked and approved before release.

Our procedure defines responsibilities and routines, which will be applied to your contract specific designs.

Our service includes full interface with network operators from point of connection application, design, design approval through to agreement to adopt. We will also provide assistance to you and the network operator to secure all necessary planning, Wayleaves and consents to facilitate construction of the connection assets, ensuring a seamless transition into the procurement and construction phase of your project.

## PROCUREMENT & CONSTRUCTION

With an approved design in place, we can meet all your electrical construction needs, with the ability to competitively procure high voltage switchgear, transformers, cables and all ancillary items required for incorporation into the connection asset.

Our policy establishes the standards to ensure that all procurement activities are carried out professionally, ethically and in compliance with all laws and legislative requirements. The policy also takes into consideration our commitment to safety, the environment and the principle of total quality.

Ahead of construction our dedicated Project Manager will work with you to fully develop a programme of work. The programme will not only account for installation work on site but also our interface with third parties who have an interest in our off-site activities, typically this may include highway authorities and agencies, rail and river authorities and utility network operators.

To comply with your construction requirements on site we will produce site specific documentation to include method statements, risk assessments and HSQE plans, as well as reporting templates. All cables, plant and equipment will be installed with Quality Assurance applied throughout the delivery phase.

On completion of our work we will provide the adopting network operator with all necessary pre-connection information in the form of site specific plant and equipment details, as laid cable records and pre-commissioning test results in compliance with our commitment under the adoption agreement.



## PRIVATE NETWORK SERVICES & MAINTENANCE

### WHY STOP AT THE METER?

In addition to connections service we can provide a competitive service for the design, supply and installation of private network assets beyond the supplier's point of metering, at system voltages from 415v to 66000v.

Completion of both the connection and private network installations at the same time can provide benefits including:

- A single point of contact for the whole of the work.
- The potential for programme improvements.
- Common documentation control.

### WHAT ABOUT THE FUTURE?

We also offer comprehensive asset management solutions for systems up to 66000v. These include operation and maintenance agreements or maintenance only agreements supported by a 24/7 emergency call out service.



# INTEGRATED UTILITY SERVICES

PROVIDING ELECTRICAL INFRASTRUCTURE SOLUTIONS

A key aspect of Ofgem's 2002 proposal was the requirement to establish a UK wide scheme to assess the competence of companies wishing to enter the connections market.

This requirement was embraced by all DNOs who, working with the internationally renowned Lloyd's Register Group, established a framework which led to the development of the National Electricity Registration Scheme (NERS). Today, Lloyd's Register operate this scheme providing impartial assessment and ongoing surveillance of ICPs.

IUS embraced this scheme declaring a strategic aspiration to attain accreditation in all areas of design and construction. Today that aspiration has been realised with accreditation, skills and knowledge in place that enables us to design and build connection assets at voltages up to and including 132kV.

This gives IUS a tangible market advantage over many other ICPs operating within the constraints of less expansive scopes of accreditation and capability.

## OUR COMMITMENT TO HEALTH, SAFETY, QUALITY & ENVIRONMENT

**We have a full-time dedicated HSQE team responsible for the management and implementation of legislation and policy throughout our contracts.**

**Our management systems, safety excellence and delivery capability have enabled us to attain the following international standards, accreditations and awards.**

- » OHSAS 18001: 2007 Occupational Health and Safety Management Systems
- » ISO 14001: 2004 Environmental Management Systems
- » ISO9001: 2008 Quality Management Systems
- » RoSPA Gold and President's Awards
- » National Electricity Registration Scheme (NERS) accreditation to carry out contestable connections works for DNOs
- » Gas Industry Registration Scheme (GIRS)
- » Water Industry Registration Scheme (WIRS)
- » Utilities Vendor Database (UVDB verify)







**INTEGRATED  
UTILITY SERVICES**  
ELECTRICAL INFRASTRUCTURE SOLUTIONS





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