

Liandon: devisers,  
builders and managers  
of Energy Technology



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sustainable Energy  
Technology



The construction and maintenance of high-voltage networks, design and construction of high-voltage stations, the connection of offshore wind parks to energy networks, supply stations for biogas, process technology and network studies for heat and cold networks, the installation of antennae for mobile data communication and a test lab for technical components. These are just a few of the products and services that Liandon supplies to customers both home and abroad.

Liandon is active in the entire chain of Energy Technology: from the very first preliminary design to the construction, completion, management and maintenance. To realise this Liandon employees some 720 people from diverse educational backgrounds and experience: from skilled technicians and engineers to experienced project managers. In the field of electricity we work closely with our principals and subcontractors on designing and modernising high-voltage networks and installations. We also take care of the construction and installation. In the area of gas as well as heat and cold supply Liandon provides the advice and designs that quickly result in feasible and affordable projects.

### Knowledge, Continuity and Innovation

Liandon is the knowledge centre of Alliander. This knowledge is based upon our years of practical experience in the gas and electricity networks of Liander, the high-voltage networks of TenneT and the heat and cold networks of Nuon. Through this work Liandon provides an important contribution to the continuity and improvement of the energy supply. As a result we are, for example, responsible for the majority of the sustainable

innovations produced by Alliander. Striking examples of this are the superconducting electricity cable, the automatic fault handling and analysis in high-voltage stations, the use of solar energy for hot tap water in the Zoneiland in Almere and the quality control in the supply of biogas (green gas) through the existing gas network.



### Growth

Liandon uses its experience and innovative strengths to develop further as a specialist in Energy Technology. An important aspect of this is making the existing energy networks more intelligent. In so doing we support the public distribution network operators in the further development of their networks of, for example, the large-scale return of energy and the charging of electric cars. These innovations in the energy network are coupled with considerable investments in the infrastructure. In addition, Liandon develops both the hardware and the software for data traffic and data processing. That knowledge is then used again in, for example, the fast growing market for telecom services.

For governments and large organisations Liandon wants to be the adviser in the areas of energy management and sustainability.



### Facts and figures

#### Turnover:

- 107 million euros

#### Size:

- 720 staff
- engineering 30%
- consultancy 6%
- project management 10%
- technology 40%
- support 14%

#### Some innovations:

- Superconducting electricity cable
- Process technology Zoneiland Almere
- Technology for reducing electromagnetic fields
- Automatic fault handling and analysis in high-voltage stations

#### Some commissions

- Design & project management sustainable refrigerant supply Amsterdam Zuid-Oost
- Project management building of Biomass centre Arnhem
- Disaster response and rebuilding of high-voltage route over the river Waal after a helicopter incident (Bommelerwaard)
- Electrification of Betuweroute
- Construction 380 kV connection Flevocentrale power station
- Building of gas delivery station AMC

#### In maintenance

- 65 high-voltage stations
- 1015 km overhead high-voltage lines
- 2053 km underground high-voltage cables

### Liandon and the free market

In the free market Liandon has been working for customers with their own networks and installations for some time now: industrial companies, such as Corus, and large market gardening complexes such as Agriport. A growing activity is the maintenance of installations on drilling platforms. What's more, in this offshore market there are new possibilities for the development and construction of innovative offshore high-voltage stations for connecting wind parks that are located far from the shore. In the technology for heat pump systems and networks for the heating and cooling of houses and industrial buildings, too, Liandon is constantly innovating. Liandon also continues to be resourceful in resolving faults in existing Energy Technology.

