

Denmark's largest fibre network for the private sector.

Background

Scheduling projects to lay many of its overhead cables underground, Danish power utility company NVE seized the opportunity to lay empty pipes for fibres at the same time in a plan to offer true broadband using Fibre to the home (FTTH) connections to 50,000 private homes in North West Zealand over the next five years. The speed of current domestic connection lines with the surrounding world means that for non-professional users, many of the latest digital services are still a distant dream. While the majority of Danes must be patient to gain access to the latest range of digital services such as IP-TV, Time shift-TV and Video On Demand, NVE's ambitious infrastructure investment aims to provide around 500 family homes with the future of TV and film as early as this coming autumn.

Criteria for Selection

Planning a fibre network that will be the most comprehensive in Denmark and totally unique to the rest of the Nordic region required NVE's technical advisors Thorsholm NET to find a company with the skill to structure such enormous volumes of individual fibre pairs.

Equally as critical was the need for a total solution that is optimal in NVE's central nodes while enabling simple and secure ad-hoc installation in the individual households as more and more join up.

NVE wish to provide each home with a 100Mb broadband connection to facilitate IP-TV, Video on Demand and broadband Internet connection. The network must also be in a position to incorporate VoIP and Net-gaming next year. These services will be offered to 50,000 of NVE's 114,000 customers over the next five years

Why Panduit?

NVE's technical advisor Peter Thrige Andersen of Thorsholm NET says, "A decisive factor in the choice of Panduit was that it is reassuring to have a partner with **well documented and thoroughly tested** technology who is able to offer several **unique fibre products**."

He adds, "Panduit offers solutions that are primarily **space-saving**, and, at the same time, afford us several alternatives for terminating the fibres. The solution is based upon Panduit's own 'Fibre-Jack' contacts that **can be terminated in many different ways** and only fills half of the traditional fibre contacts in the racks."

The Panduit Solution

Panduit worked with Peter Thrige Andersen to identify what kind of application NVE wanted to offer their customers. First in line are IP-TV, Video On Demand and 2-10Mb Internet access. Voice over IP, Time shift-TV and Games On Demand are planned for the future. Based on experience from the FastWeb project in Milan, the decision was made to provide 100Mb connections to each house with several rings of Gbit running through the fibre rings in the NVE supply area.

✓ Panduit developed a complete home-gateway including fibre spool, separate fibre ports for Fibre-Jack and 16-jack copper patch panels.

✓ Panduit also designed a fibre board for installation alongside the traditional electricity board at the consumer's home



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