
COWI A/S USES BENTLEY COMMUNICATION SOLUTIONS FOR VIBORG

COWI A/S USES BENTLEY COMMUNICATION SOLUTIONS TO DESIGN, DOCUMENT AND IMPLEMENT AN FTTP NETWORK FOR VIBORG, DENMARK

Energi Viborg, the primary utility company in the county of Viborg, Denmark, planned to expand their public service offerings by adding a fiber-based broadband network to serve the county. With approximately 24,000 household customers and 2,500 companies to whom they supply electricity, heating and water services, Energi Viborg realized that they needed a powerful and flexible solution to successfully complete the project. They also understood that given the enormity of the project, a specialist in project management would be required to assist with the implementation. Energi Viborg chose COWI A/S as the project management group responsible for planning, procuring, contracting, supervising and testing all phases of the fiber project.

COWI is a leading international consulting group with expertise in engineering, environmental science and economics. Founded in 1930, COWI has implemented more than 50,000 projects in 175 countries, including some of the largest infrastructure projects in the world.



PROJECT OVERVIEW

Project

Project management responsible for planning, procurement, contracting, supervision and testing for all phases of the fiber build for Energi Viborg

Organization

COWI

BE Awards Category

Communications

Project Objectives

Plan, prepare, and coordinate the design and documentation of the FTTP network. Supply 100% broadband through FTTP in Viborg

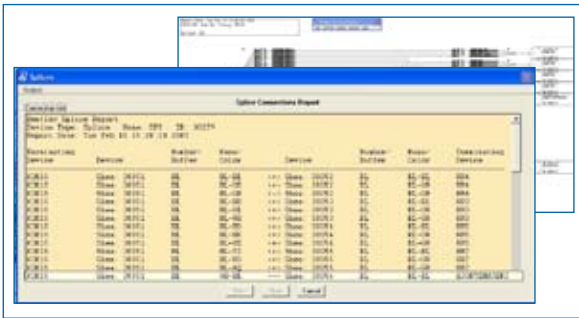
Fast Facts

- COWI is an international consulting group
- Energi Viborg is the primary utility company in the county of Viborg, Denmark.
- Bentley Communication software efficiently creates an intelligent network model during the engineering process that connects from head-end to individual customer and the engineering documentation necessary to build an FTTP network

Bentley Products Used

- MicroStation GeoGraphics®
- Bentley PowerMap™
- Bentley Fiber TM
- Bentley Inside Plant™
- MicroStation® V8
- Bentley Geo Web Publisher™
- Bentley Redline™

COWI A/S understood that to design and manage a complex Fiber-To-The-Premise (FTTP) network, they needed design software that incorporated the engineering calculations necessary to the design the network and would create an intelligent network model that could be used to maintain and operate the network on an ongoing basis. They selected Bentley Fiber for the project. In addition, they chose Bentley Inside Plant for modeling and managing the inside plant equipment found in the head-ends, Bentley Geo Web Publisher for web access, and Bentley PowerMap and Bentley Redline to plot maps and redline changes. The common platform made it easy to share data and workflows throughout the project.



▲ Splicing report and diagram

The Bentley Communication products allowed Bill Of Materials (BOM) to be easily derived and the planned connections and splicing to be saved digitally or printed directly from the system. The system also provides many other engineering reports, comprehensive engineering tools for both inside and outside plant, and offers multiple data views and query capabilities for project managers.

Energi Viborg also managed their utility networks for distribution of Water, District Heating and Electricity with Bentley applications. The workflow of designing the fiber network was enhanced by the fact that a common base of maps, addresses, customers and other network utilities was already established and could be used without major changes. The use of

