



FACTS AT A GLANCE

Company: SEAS-NVE

Web site: www.seas-nve.dk

Description: SEAS-NVE is Denmark's largest consumer-owned energy company. Its core business is delivery of energy and communication services to customers in Denmark. SEAS-NVE's products range from energy to advanced consulting services on wind farm technology.

Revenue: DDK 3133 Million

Employees: 615

Industry: Utilities

Country: Denmark

PRODUCTS USED

- G/Technology product suite
- G/Technology Fiber Optic Works
- GeoMedia® product suite

KEY BENEFITS

- System more intuitive
- Data housed in one system
- Customers have more options with fiber technology

SEAS-NVE USES GEOSPATIAL SOLUTIONS FROM INTERGRAPH® TO INTEGRATE FIBER OPTIC NETWORKS

Utility Streamlines Infrastructure Management to Boost Reliability, Efficiency of Electric and Communication Networks

IDENTIFYING GOALS

In 2006, SEAS-NVE started the company's 3-in-One Project. The project consisted of three areas: laying new cable for the supply grid, installing new street lighting, and establishing an updated fiber optic network. SEAS-NVE used fiber optic technology for more than 20 years. Originally, the company used the technology to secure necessary data on the operation and condition of the electricity grid. Today, however, fiber optic networks deliver a wider array of services. This includes "fiber to the x" (FTTx) for broadband network architecture and enhanced customer services, such as data transmission, cheaper telephone services, personal television packages, and high-speed Internet.

SEAS-NVE is responsible for the development and operation of the fiber optic network, while the company's partners provide content for the connection. As the project started, SEAS-NVE needed to integrate all of its expanding fiber networks.

OVERCOMING CHALLENGES

- Integrating all fiber optic networks
- Enhancing delivery of services to customers
- Establishing a single database

REALIZING RESULTS

SEAS-NVE selected geospatial solutions from Intergraph® to integrate its networks into a single database. Intergraph's infrastructure management solutions enable utility and communications companies worldwide to geospatially manage, operate, and secure network infrastructure and data. Intergraph solutions streamline network management and operations to boost the reliability, efficiency, and safety of utility and communications networks. SEAS-NVE used Intergraph's G/Technology product suite to manage its electric and communications networks. For landbase management and ad hoc geographic information system (GIS) analysis, the company used Intergraph's GeoMedia® family of products. This included GeoMedia WebMap for an Internet portal and "call before you dig" information for customers.

For the municipalities in the region, the 3-in-One Project is a unique opportunity to modernize street lighting. At the start of 2008, SEAS-NVE changed its fiber network digging concept to reduce the gap between sales and customer connection, and at the same time optimized the process for connecting new customers in previously cabled areas. With the help of Intergraph's infrastructure management solutions, SEAS-NVE will be able to identify how to connect a customer in a much faster way.

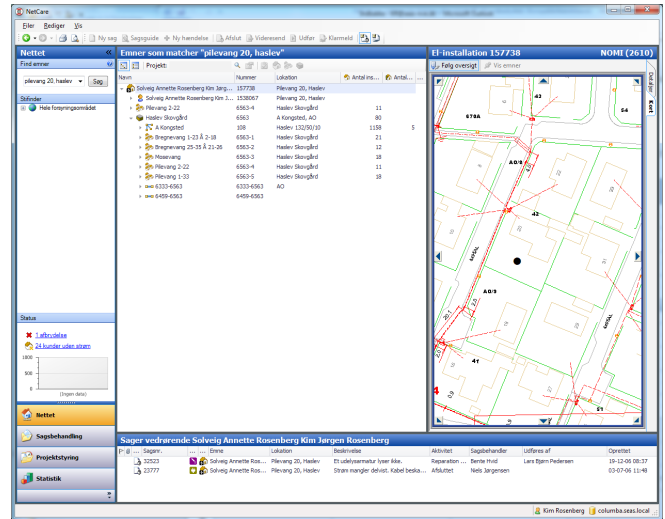
Intergraph provided a 100 percent turnkey solution to SEAS-NVE. This included adding microduct management, so a customer can draw a trench where microducts are placed. The microduct containment editor manages what inner ducts are in use and which can be used for new service requests. Implementation also includes route allocation of new service. With Intergraph's infrastructure management solutions, SEAS-NVE has access to all data across the enterprise. Having a single, trusted vendor for these technologies helped SEAS-NVE ease integration and maximize performance.

In 2009, SEAS-NVE implemented a combined supervisory control and data acquisition system (SCADA) and distribution network management system from PSI Germany. SEAS-NVE migrated the network with a simplified topology to the new system. The PSI system has a geographic and schematic view, with the later automatically created based on data migrated from G/Technology. As Kim Rosenberg, SEAS-NVE Systems Analyst, explained, "using our data from G/Technology, we were able to implement the network in the PSI system with minor manual effort."

SEAS-NVE integrated G/Technology NetViewer in its call center system, making it easy for all users to have a quick geographic view of the asset or customer site selected.

In 2008, the authorities in Denmark introduced a "call before you dig" website. SEAS-NVE has implemented a solution that

automatically will send information from the requested area to the requestor. "We automatically fetch the polygon of the area, create PDF plots using G/Technology NetPlot Server, and send it to the requestor," said Rosenberg. "Approximately 90 percent of all inquiries are automatically carried out, and the remaining manual work is done by a single person. A couple of years ago, this work required three people."



ABOUT INTERGRAPH

Intergraph is the leading global provider of engineering and geospatial software that enables customers to visualize complex data. Businesses and governments in more than 60 countries rely on Intergraph's industry-specific software to organize vast amounts of data to make processes and infrastructure better, safer and smarter. The company's software and services empower customers to build and operate more efficient plants and ships, create intelligent maps, and protect critical infrastructure and millions of people around the world.

Intergraph operates through two divisions: Process, Power & Marine (PP&M) and Security, Government & Infrastructure (SG&I). Intergraph PP&M provides enterprise engineering software for the design, construction, operation and data management of plants, ships and

offshore facilities. Intergraph SG&I provides geospatially powered solutions to the public safety and security, defense and intelligence, government, transportation, photogrammetry, and utilities and communications industries. Intergraph Government Solutions (IGS) is an independent subsidiary for SG&I's U.S. federal and classified business.

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For more information, visit www.intergraph.com and www.hexagon.se.

