

DBDH member company profile **GRONTMIJ | CARL BRO**

Located beautifully in the woods in the outskirts of Copenhagen, Grontmij|Carl Bro is part of the Dutch company Grontmij, one of the largest players in the European consultancy market. The company offers consultancy services within the spheres of building, construction, water, the environment, energy and industry, and are represented in the Netherlands, Denmark, the UK, Germany, Belgium, Poland, Ireland, Sweden and Vietnam, among others.



DISTRICT HEATING

Over the last 25 years Grontmij|Carl Bro has been a consultant in all aspects of the district heating implementation process: planning, design, supervision and administration.

Looking at the three main points in the energy policy: competitiveness, security of supply and environmental impact, district heating has proven its strengths on the two last mentioned areas, and is challenged today especially on competitiveness. This means that district heating systems must be optimized continuously in all aspects. Therefore, in order to assess any possible improvement opportunities, Grontmij|Carl Bro has, among other things, participated in the development of benchmarking for the district heating sector internationally.

Grontmij|Carl Bro has worked with district heating system since 1980 as one of the largest consultants in the field. One of the largest customers has been the Western Copenhagen Transmission company VEKS, where Grontmij|Carl Bro had a leading part in the planning, design, tendering, supervision and commissioning of the entire system.

The latest development on the Danish scene is that district heating is superseding areas supplied by natural gas. Peter Sonne, Project Manager, reports of the fact that right now district heating pipes are being uncoiled in areas of Western and Northern parts of greater Copenhagen. These projects involve Grontmij|Carl Bro and another large engineering company (also a member of DBDH), Ramboll, as consultants. Parallel with these new projects, adjustments and improvements of existing systems are continuously ongoing. One example is the main pumping station in the VEKS system in Rødovre where new pumps were installed. As Peter Sonne says, "the situation of consumption, distribution and supply is changing constantly. Technical and administrative adjustments have to follow up."

Grontmij|Carl Bro also provides consultancy to the district heating companies regarding energy savings which have been imposed upon the district heating sector since 2006.

District cooling is a "hot" topic these years, both in order to be able to deliver an environmentally sound solution and also to increase the utilization of the district heating system.

Therefore Grontmij|Carl Bro sees district cooling as a natural part of the utility system palette and through which the company can offer frontline technology.

GRONTMIJ|CARL BRO AND DISTRICT HEATING INTERNATIONALLY

Since 1990 the company has enhanced their activities to Eastern Europe and Asia where all kinds of projects have been undertaken related to design of new systems as well as rehabilitation of existing systems.

These years Grontmij|Carl Bro is deeply involved in projects in Romania. Among the most significant clients are the district heating company of Bucharest, RA-DET, and the municipality of Bucharest, which recently commenced an energy strategy project.

One of the exemplary relations has been to Kozani, Greece. Seven years after commissioning of the district heating system, Grontmij|Carl Bro was asked to assist review and updating the system activities, as the town development then required the district heating system to apply to large system technology. An eight-point development plan was drafted which included strengthening of the transition pipe system hydraulic network analysis, main pumps, customer relations, tariffs, systems assistance to contract negotiations with the CHP plant. During the last 6 years the activity plan has been implemented and new issues have been initiated. The latest activity between Kozani and Grontmij|Carl Bro was a feasibility study about district cooling. The relation to Kozani is also exemplary because Grontmij|Carl Bro cooperates closely with local consultancy companies.



Mr. Peter Sonne,
Project Manager,
Grontmij | Carl Bro



GRONTMIJ|CARL BRO AND THE ENVIRONMENT

One area in which Carl Bro is very involved is the area of environment. The company is at the front when it comes to everything regarding climate change; environmental impact, JI and CDM projects. Grontmij|Carl Bro has established a "climate change task force" as this issue involves a variety of expertise to the subject from a large number of departments. According to Peter Sonne, the environmental engagement and involvement can be divided into two headlines:

1. Energy savings, emission and CO2 reductions and
2. Climate change related subjects, which focus on the impact from the climate change, like flooding, drought, wind etc.

ADDITIONAL INFORMATION

For further information about Grontmij | Carl Bro A/S please visit www.grontmij.com.

Grontmij is Europe's fifth largest consultant engineering company in terms of turnover and the sixth largest in terms of the number of employees. The group's total turnover is EUR 720 million and the number of employees is approximately 7000. In Denmark alone Grontmij | Carl Bro employs around 1200 employees. The group exports a broad range of consultancy services, organises international projects and has project offices across the world.

GOAL The goal of Grontmij | Carl Bro is to create value for the customers. For this reason, the staff consists of individuals with various professional backgrounds. In addition to engineers, there are economists, bio-logists, geologists, computer scientists and legal experts. Grontmij | Carl Bro wishes to be seen as an attractive and responsible workplace that retains its employees through offering professional challenges, training and a personnel policy that provides scope for flexible, individually adapted solutions.

ACROSS BORDERS Employing about 6300 employees in more than 80 offices worldwide, Grontmij creates bright solutions that are both meaningful and functional. Grontmij's international and national advisory services require innovative thinking and cultural understanding. Therefore, the employees enhance their abilities by representing Grontmij | Carl Bro locally and working internationally.

THE FRAMEWORK Project-based work forms the core of the organisation. The creativity, expertise and experience of our employees in cooperation with our customers form the basis of an effective and efficient working method. Grontmij | Carl Bro is a flexible, dynamic network organisation and encourages an intensive exchange of expertise, know-how and capacity.



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