DISTRICT COOLING

AUTOMATED MAPPING OF PROFITABLE DISTRICT COOLING AREAS
DISTRICT COOLING – GET AN OVERVIEW OF YOUR FUTURE CUSTOMERS

District cooling is an economically and environmentally favourable alternative to local cooling. Now, you can have the potential of your supply grid mapped in a thorough, transparent and cost-efficient way.

Challenge – Identifying areas suitable for district cooling

The cost reduction related to district cooling increases every time a new customer is connected to the district cooling grid. In order to identify potential areas suitable for district cooling, it is important to:

- Locate companies with potential cooling demand
- Estimate the cooling demand of the located companies
- Assess the geographical location of the companies and compare this to other potential customers for district cooling
- Measure the price of a district cooling system against geographical location and cooling demand in order to assess, if the cost reductions related to the establishment of a decentralised facility justifies the founding of a district cooling system

Solution – Automated identification

For this purpose, Ramboll has developed a unique tool, which is able to identify areas with district cooling potential, by gathering information regarding the cooling demand and geographical location of companies. These pieces of information are then measured against the difference between the preliminary expenses of a local cooling facility and a district cooling system, respectively.

The end product delivered by Ramboll is a report, describing potential district cooling areas within a specific geographical area, an address list containing relevant information about the companies in the identified district cooling areas and a graphical rendering of the location of companies and profitable district cooling areas. The tool is illustrated in the figure to the right and on the front page of this pamphlet.
Classification of:
Building Size
Cooling Demand
Building Type

THE RESULT CAN BE SEEN ON THE FRONT PAGE

Price/MW

MW Cooling Demand

Cooling Central

Piping

Price/m

MW Cooling Demand