

# PERNILLE M. OVERBYE

## Head of Department

Pernille Mette Overbye is Head of Ramboll Energys district energy department and service line coordinator for this area of Ramboll Energys global practice. Pernille has very extensive energy process-design experience and almost 20 experience within the energy and district heating market. Throughout her career Pernille has had focus on the UK and has spent 10 years living and working in the UK. Pernille is specialised in CHP and district heating, and she has been project manager for a wide range of projects, including feasibility studies, detailed design projects, O&M tasks. In addition to UK project work, Pernille is involved in detailed design and overall project management of the Ramboll team working for the Metropolitan Copenhagen Heating Transmission Company, CTR. Additionally, Pernille's skills portfolio and solid background has previously led to her appointment as Chairman for the Network Heat Forum at the Combined Heat and Power Association (CHPA) in the UK where she now sits on the board, and where she also t provide guidance to the working group which looks at standards and regulation.



## CONTACT INFORMATION

**Pernille M. Overbye**

[PMO@ramboll.com](mailto:PMO@ramboll.com)

+45 51618460

Ramboll  
Hannemanns Allé 53  
2300 Copenhagen  
Denmark

## CAREER

2002→

**Ramboll Energy**

2000-2002

**Project Engineer, PB Power Energy Services Division now PB Energy Solutions**

1998-2000

**Energy Manager, Earls Court and Olympia Group Ltd, London, UK**

1996-1998

**Station Energy Manager, RAF Henlow, Henlow, Beds, UK**

1993-1996

**Energy Consultant, Energy Control Consultants Ltd, Burnham, Slough, UK**

1992

**Graduate Engineer, MOTOROLA LTD, AIEG, Stotfold. Herts, UK**

1987

**Industrial Placement , Krüger A/S, Gladsaxe, Denmark**

1985-1986

**Technical Clerk, Kampsax A/S for Mærsk Oil and Gas, Copenhagen, Denmark**

## EDUCATION

2000->>>

**National Home Energy Rating (NHER) Assessor (UK)**

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1992-1993

**Energy Conservation and the Environment**

Cranfield University.

1989-1992

**B.Sc. in Mech. Engineering – Chemical Processes, Copenhagen.**

Copenhagen Engineering College

1988-1989

**Diploma for Technical Assistant, Copenhagen**

Mechanical Technological School

## LANGUAGE SKILLS

English, **Danish** (mother tongue), Swedish, German, Norwegian

## PROJECTS

2013-2014

**GRC - Site Management, Health and Safety, Site Supervision**

**Centralkommunernes Transmissionsselskab I/S, Denmark**

Planning and design of new peak and reserve-load plant in existing building in Gladsaxe. The project comprises site management, health and safety as well as site supervision.

2013-2014

**Eandis - Belgium - District Heating System Engineering Representative**

**Eandis cvba, Belgium**

Project manager for the services Ramboll is providing Eandis developing, design and execution of pilot district heating projects in Belgium and establishing of district heating craftsmanship within Eandis.

2011->>>

**Project North Expansion**

**The Metropolitan Copenhagen district heating transmission company (CTR), Denmark**

Project manager for the implementation project to enable CTR's northern part of its transmission ring main to supply heat to the expansion of district heating in Gentofte og Gladsaxe municipalities. The work includes upgrading of pumps and motors, regulating valves and various other equipment on a number of the large heat exchanger interface stations.

2007->>>

**District Heating in Greater Copenhagen**

**The Metropolitan Copenhagen Heating Transmission Company (CTR), Denmark**

Part of the overall project manager team. The CTR engineering team at Ramboll consists of 20-30 engineers with hundreds of projects each year. The PM team has the overall technical and financial responsibility. The team reports to the CTR directors.

2013-2014

**Scottish Power - Understanding the challenges facing energy networks in the UK  
Ramboll UK Ltd, United Kingdom**

Support to RE UK in outlining the challenges facing district energy networks in the UK based on our experience from DK and internationally.

2013

**Greater Manchester - Heat Network Masterplan  
Ramboll UK Ltd, United Kingdom**

Support to RE UK in identifying the potential for district heating in Greater Manchester, including carrying out a risk analysis and high-level cost analysis

2012-2014

**GRC - New Peak and Reserve Load Plant  
Centralkommunernes Transmissionsselskab I/S, Denmark**

A new 30 MWth peak and reserve gas fired boiler plant is being planned. The plant is to be located in an existing building which was previously used for supply to the local area of British American Tobacco. The work includes all planning, fuel appraisal, design, installation and commissioning.

2012

**Veolia - Sheffield District Heating Consultancy Services  
Veolia Environmental Services (UK) Plc, United Kingdom**

Ramboll Energy has been appointed by Veolia Environmental Services (UK) plc to assist with various O&M and design tasks in relation to the district heating system in Sheffield. Initially the work covers describing and assessing various types of consumer installations and connection to the networks together with a description and assessment of the required water treatment. Work will also look at the optimisation of the networks, and sizing new connections.

2010-2011

**London Heat Maps (LDA DEMaP Programme)  
LDA and various London Boroughs, United Kingdom**

Peer reviewer and advisor on three projects to carry out high level assessment of the potential for implementing district heating within City of London, Tower Hamlets and Bexley. The work focused around heat data collection, heat mapping, data analysis and outlining a plan for implementation identifying focus areas.

2010

**London Heat Maps (LDA DEMaP programme)  
LDA and various London Boroughs, United Kingdom**

Project management for six projects to carry out high level assessment of the potential for implementing district heating within Brent and Barnet, Ealing, Lambeth, Southwark and Lewisham. The work focused around heat data collection, heat mapping, analysis and outlining a plan for implementation through identifying focus areas.

2009-2011

**Greater Manchester Energy Planning Study  
URBED, United Kingdom**

Project Manager for Ramboll services to produce a briefing document, which looked at the technical issues of taking heat from Carrington CCGT power plant. Also attended workshops on district heating planning and provided an overview of the key strategic issues in relation to District Heating.

2009

**Perth District Heating and Cooling Network Assessment Study**

**Green Rock Energy Ltd, Australia**

Project Manager for the study into utilising a geothermal heat source to deliver heating and cooling to a planned new suburb. The work was a high level screening to outline the concept for a district heating and cooling network.

2008-2010

**CHP and District Heating Feasibility Study - Edinburgh, Scotland**

**PARC Craigmillar Ltd, United Kingdom**

Project Manager for the continued work looking at a District Heating pilot scheme for connecting 172 existing dwellings in two high rise blocks and 194 new dwellings. The pilot project looked at conventional district heating options but also looked at a larger Solar Thermal Array to provide the base load heat.

2008

**Olympic Village and Stratford City Centre - Thermal Storage**

**Specialist advisor to PB Energy Solutions, United Kingdom**

Project Manager for the design and operation strategy of two thermal stores for the district heating and cooling schemes at the Olympic Village and Stratford City Centre. The work involves the overall description of such systems and the technical specification of the tanks.

2008

**Heat-off Take from Barking Power Station, London Energy Delivery Unit**

**London Development Agency, United Kingdom**

Project Manager for all aspects of the work for a detailed feasibility study into taking heat from the Power Station through a transmission district heating pipeline to supply a number of local district heating developments. The work was quite comprehensive looking at many technical, delivery and planning issues.

2008

**Groveton District Heating Masterplan and Feasibility Study**

**North County Resource Conservation & Development Area, United States**

Project Manager for the study into a district heating network to supply heat to a number of residential, private and public buildings and the present the issues surrounding technical aspects and commercial issues.

2007-2009

**Sheffield District Heating**

**Veolia Environmental Services Ltd, United Kingdom**

Project Manager for all services as in-house consultant providing advice in relation to their district heating network operation and expansion of services. The work included ongoing design advice, a preliminary appraisal for installing a thermal store and/or a biomass woodchip boiler.

2004-2005

**Greater London Authority Community Heating Study**

**Treater London Authority, GLA, through PB Energy Services, United Kingdom**

Project engineer in a team consisting of PB Power Energy Services and Ramboll working on a community heating study. Ramboll was to deliver technical expertise and was also involved in the business modelling and contributed to the seminar that was held for stakeholders as part of the work package.

2004

**Industrial Audit**

**Danish Environmental Protection Agency, Lithuania**

Carried out the follow-up, visiting three plants to investigate the implementation of activities for which the plants had received subsidies.

2002-2010

**District Heating in Greater Copenhagen(CTR),**

**The Metropolitan Copenhagen Heating Transmission Company (CTR), Denmark**

O&M project engineering & management of valve maintenance and replacements on 26 large heat exchanger stations within the CTR system.

**PUBLICATIONS**

2007

**"Having your Danish bacon and heating it"**

Sustainable Solutions

2006

**Heat meters, Individual Metering and Monitoring**

CPD programme, Energy Institute

2003

**"Danish Lessons on District Heating"**

Energy & Environmental Management magazine

2003

**"CHP and district heating – Denmark and the UK compared"**

The magazine of the Institute of Energy "energyworld"

2003

**"Chilled water store at Heathrow Airport",**

News from DBDH, the Danish Board of District Heating

**MEMBERSHIPS**

Chartered Engineer (C Eng)

Member of the Institute of Energy (MIE)

Since 2008: Board member of Combined Heat and Power Association in the UK,

Chairman of the Network Heat Forum.