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ABOUT C.F. MØLLER

C.F. Møller Architects is one of Scandinavia's oldest and largest architectural firms. We work within a broad spectrum of disciplines – architecture, landscape, urban planning, interior design, health service planning, management and product design. We have a staff of 330 people in our offices in Aarhus, Copenhagen, Aalborg, Oslo, Stockholm and London.

The goal of C.F. Møller Architects is to be at the cutting edge in the sustainable agenda. We aim to provide the most qualified knowledge in the field, and the best advice for our customers.

At C.F. Møller, accountability is a part of everyday life, and is integrated

into the way we work. C. F. Møller Architects was the first major architectural practice in Denmark to have introduced an environmental management system, and was certified in 2009 under the international ISO 14001 standard. This certification documents the practice's active efforts to minimise the environmental effects of all of its processes and services.

For almost 90 years, C.F. Møller Architects has helped to shape the Danish and Nordic welfare societies. We have developed spaces and buildings for hospitals, universities and schools, the public administration, master plans and housing, with a constant focus on social innovation through architecture.



THE TEAM 330 in total

* 143 architects | 42 constructing architects | 31 administration etc. | 22 trainees | 17 technical illustrators/assistants | 17 consultants | 16 branch heads/leaders | 11 landscape architects | 10 engineers | 8 partners | 8 designers | 8 IT | 1 CEO

NUMBER OF EMPLOYEES IN OUR OFFICES

* 140 in Aarhus | 84 in Copenhagen | 48 in Stockholm | 29 in Oslo | 26 in Aalborg | 14 in London

NATIONALITIES 17 countries in total

* 231 Danes | 39 Swedes | 30 Norwegians | 5 British | 5 Germans | 2 Poles | 3 Americans | 2 Italians | 3 Icelanders 2 Spaniards | 2 Fins | 1 Australian | 1 Mexican | 1 Hungarian | 1 Lithuanian | 1 Iranian | 1 Portuguese

GENDER 45% women • 55% men

* 149 women | 181 men

* April 2012



STATEMENT OF SUPPORT

As architects, we help to create surroundings for human beings. It is part of our social responsibility as consultants to ensure that these surroundings are sustainable and beneficial for human beings, the environment and society. By supporting the UN Global Compact, C.F. Møller Architects wishes to send a clear signal to our customers, employees and partners that we take this responsibility seriously. And we wish to continuously remind ourselves that our work with sustainability is a constant process in which we can always improve our performance.

The practice devotes special attention to the principles of environmental sustainability. A sustainable future demands new materials and technologies, and complex architectural methods in the built environment. It is therefore within the scope of the environmental principles – principles 7, 8, and 9 of the Global Compact – that we as architects see our biggest opportunity – and obligation – to make efforts and achieve progress.

The need for CSR tools is growing as C.F. Møller Architects increasingly works with international projects. In 2011 we formulated our first CSR policy, which is also published on our website.

This year, we have initiated a development project with the aim of becoming even better at implementing the principles of the Global Compact in our daily work. This project is facilitated by the Responsible Assets consultancy, which develops a number of tools for C.F. Møller Architects on the basis of our CSR policy.

The goal of the project is to create tools for both communication and quality assurance which can be used in co-operation with international clients with a view to securing the principles of the Global Compact in our future contracts. One example of these tools is a "Supplier's Declaration" which we ask clients to sign, and which requires the individual construction project contractors and subcontractors to adhere to the principles of the Global Compact.

Once these tools have been tested and evaluated, we intend to continue the work of developing a more detailed Code of Conduct for C.F. Møller Architects as part of our future CSR policy.

C.F. Møller has also been active in the development of the Nordic Built Charter, which acts as the fundamental value system for Nordic construction. The Nordic Built Charter is a Nordic initiative which aims to promote the development of sustainable construction. It was initiated by the five Nordic ministers for trade and industry and adopted in October 2011. We signed the charter on 1 October 2012.

Every year, we monitor the development of sustainable projects at C.F. Møller Architects via our ISO 14001 certification. In 2011, the share of projects integrating sustainable solutions, in addition to the Danish minimum standard, amounted to a total of 57% of all new projects.

We are proud to say that we enjoy a good reputation for designing sustainable architecture, and it is with great pleasure that C.F. Møller Architects continues to fully support the ten principles of the Global Compact.

Anna Maria Indrio

Mads Møller

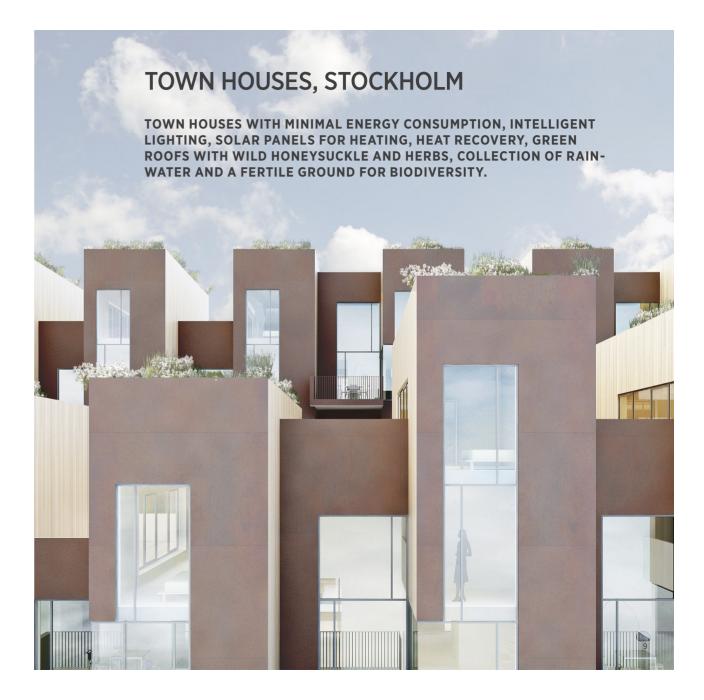
Julian Weyer

Topi Danielsen

Mm //W/ Klavs Hyttel

Sturs Tousland

Jone Wiggers



HUMAN RIGHTS

Principles

- 1. Businesses should support and respect the protection of internationally proclaimed human rights; and
- 2. make sure that they are not complicit in human rights abuses.

When we work in countries in Europe, we comply with European laws protecting human rights, both as regards our own departments and the people who work on the construction sites of projects we have designed or worked on.

When we work in countries outside the EU, we strive in our projects to describe and refer to the binding legislation and human rights laws that must be taken into account. Special emphasis is placed on the safety of the work to be performed, and on ensuring that the work is performed in accordance with the human rights proclaimed by the United Nations.

C.F. Møller Architects has a member representative on the Sustainability Committee of the employers' organisation Danske Ark (the Danish Association of Architectural Firms). In 2011, we helped to play an active role in promoting the preconditions for allowing member companies to act sustainably, and thereby realise responsible and commercially sound development. The committee is concerned with activities, media influence, frameworks and legislation, providing advice for members, and co-operation with relevant bodies.

In 2011, C.F. Møller Architects was also a partner in the World's Best News campaign organised by the United Nations. Danida and more than 80 Danish development agencies. The goal of the 'World's Best News' campaign was to give people more accurate knowledge about the actual results of development aid and efforts to combat global poverty. Specifically, the campaign is linked with the UN's 2015 Goals, which provide a widely-accepted vardstick of world development. The World's Best News is a challenge to take the final crucial steps towards the 2015 targets.

Policies

C.F. Møller Architects supports the UN Declaration of Human Rights
C.F. Møller Architects supports all current legislation ensuring equal treatment in relation to human rights.
C.F. Møller Architects has formulated a CSR policy, which can be seen at www.cfmoller.com.





LABOUR

Principles

- 3. Businesses should uphold the freedom of association and the effective recognition of the right to collective bargaining;
- 4. the elimination of all forms of forced and compulsory labour;
- 5. the effective abolition of child labour; and
- 6. the elimination of discrimination in respect of employment and occupation.

The work in our offices

At our six branch offices, we comply with national laws and regulations governing health and safety, organisation, working conditions, working hours, salaries, child labour and forced labour.

We constantly monitor any problems in the health and safety of our employees, and develop new solutions to improve working conditions at our offices. At least every three years, we conduct a workplace assessment (WPA) at our offices in Denmark. This means amongst other things that we evaluate the working environment and any stresses the employees may be exposed to – physical as well as psychological. The results are analysed and shared with the entire organisation at practice meetings, and plans of action are implemented to solve any problems.





All of our offices have designated employee safety representatives who work with the C.F. Møller management to improve any environmental problems at our own offices. The goals, plans and initiatives for this work are also included in the ISO 14001 system.

When we hire new employees at our offices, we first of all look at their

qualifications and experience, and then at their gender and nationality, and we also take into account the benefits it gives to the quality of work of having worked in many areas and cultures.

C.F. Møller Architects currently has employees from seventeen different countries, and the proportion of men to women is 55 % to 45 %.

We support numerous social events in our offices – study tours, inspirational visits to our architectural and construction sites, parties and lectures. Each year, we also support employee participation in the "Bike to Work" exercise campaign and the DHL exercise run. This helps to strengthen our community, and may even motivate more people to cycle and run on a daily basis.

Projects outside the EU

When we work in countries outside the EU, we strive in our projects to describe a number of rights and safety rules that must be taken into account. Special emphasis is placed on the safety of the work to be performed, and on ensuring that the work is performed in accordance with the labour rights proclaimed by the United Nations.

In co-operation with the Responsible Assets consultancy, we are now developing a number of tools for C.F. Møller Architects on the basis of our CSR policy, to be used in our co-operation with international clients with a view to securing the principles of the Global Compact in our future contracts.

One example of these tools is a "Supplier's Declaration" which we ask clients to sign, and which requires the individual construction project contractors and subcontractors to adhere to the principles of the Global Compact.

Once these tools have been tested and evaluated, we intend to continue the work of developing a more detailed Code of Conduct for C.F. Møller Architects.

Policies

C.F. Møller's quality assurance system C.F. Møller's ISO 14001 system We are working on developing a Supplier's Declaration We are working on developing a Code of Conduct

VÄRTATERMINALEN, STOCKHOLM

THE ENERGY CONSUMPTION IN THE FUTURE FERRY TERMINAL BUILDING IS EXPECTED TO BE LESS THAN 35 KWH PER SQUARE METER: SOLAR CELLS PROVIDE ELECTRICITY TO THE TERMINAL BUILDING. SEA WATER AND SOLAR ENERGY IS USED FOR BOTH HEATING AND COOLING. GREEN ROOFS TAKE CARE OF RAINWATER AND CONVERTS CARBON DIOXIDE INTO OXYGEN. WIND POWER IS USED FOR CHARGING CARS.



ENVIRONMENT

Principles

- 7. Businesses should support a precautionary approach to environmental challenges;
- 8. undertake initiatives to promote greater environmental responsibility; and
- 9. encourage the development and diffusion of environmentally friendly technologies.

C.F. Møller wishes to be a front runner in sustainability. The energy demands of the future towards the energy consumption, environmental impact and sustainability of buildings represent an architectural challenge for a practice that intends to be a pioneer in the field and at the same time deliver high architectural quality.

Environmental concerns can easily be combined with good architecture. In fact, this opens up new, attractive possibilities for innovation in form, spaces and materials which are very much to the benefit of the coming users and residents.

Environmentally-friendly project planning is a systematic working practice that ensures that the environmental impact of construction remains limited. The method makes it possible to incorporate environmental concerns in project planning on an equal footing with consideration of other factors, such as accessibility, time, quality and finances.

ISO-14001

C.F. Møller Architects is certified according to the international environmental management standard ISO 14001.

Environmental management is about:

- Analysing environmental matters
- Formulating environmental policy
- Stipulating environmental goals
- · Compiling plans of action
- Evaluating environmental work

The certificate applies to our three offices in Denmark and our office in the UK. The certification documents our proactive efforts to minimise environmental impact, both in the operation of our own offices and in the buildings we design – in energy consumption and building materials lifecycles – and the ongoing development of new know-how in the organisation.

An annual survey, audit and evaluation is performed of the ISO 14001 environmental management system, and the results are used to develop new goals and strategies. The system is also evaluated annually by an independent auditor, the Danish Standards Association.



DS/EN
ISO 14001





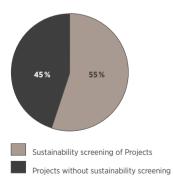




Environmental accounts for our projects

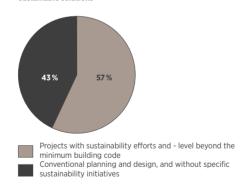
C.F. Møller Architects aims to carry out compulsory screening of the sustainability of all new projects as an integral part of the practice's work to motivate each client to incorporate sustainable components in construction. In 2011, we environmentally screened 55% of the projects – an increase from 38% in 2010.

Sustainability screening



In 2011 we refined the methods used in our environmental accounts, because we now take more factors into account than previously. The statistics show that 57% of our new projects in Denmark in 2011 incorporated sustainable solutions – either in the environmental screening of the projects, particularly high standards in energy consumption, or some form of certification.

Sustainable solutions



The results of our sustainability work have been broken down in the diagram below:





We have a strong focus on developing new expertise in eco-friendly construction and pooling our knowledge in an internal database which is available to all employees via our intranet.



Sustainable solutions

In 2011 we produced a series of icons to illustrate the most important environmental initiatives we work with in our construction. The icons are used in our communication to show how each project integrates sustainable solutions

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a	Phase changing materials
	Certified building
	Daylight. Use of solar blinds minimizes direct sunlight.
	Energy renovation
•	Low energy windows
	Flexibility
	Green Roof. Roof of a building that is covered with seeded soil and vegetation over a waterproofing membrane. Reduces the need for cooling and water run-off.
•	High insulation values
-	Ground cooling/heating. Central heating and/ or cooling system extracting ground heat.
	Energy efficient design and compactness.
_	

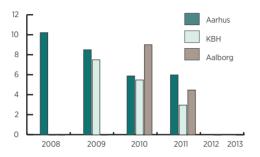
LCA. Life Cycle Assessment.

(LED. Energy efficient lighting. concept.
	Sustainable planning
2015	Low energy standard - 2015
2020	Low energy standard - 2020
	Natural ventilation
	Paper/flax insulation.
	Passive solar design (PSD). Building design uses the sun's energy for heating/cooling.
	Rainwater harvesting
	Photovoltaic cell/solar heating
	Noise Minimization
	Healthy building
(B)	Vacuum insulation/thermal break
	Ventilation with heat recovery.
*	Wind energy
(n	High performance thermal insulation. Air tight envelope, eliminated thermal

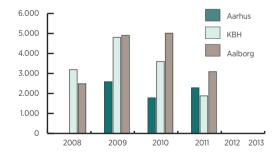
Prefabricated components

Environmental accounts for our offices

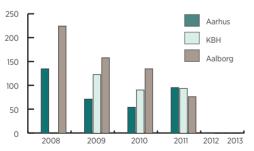
Each of the practice's branches has an environmental co-ordinator who records local results and helps to alter inappropriate behaviour in relation to resources. We constantly strive to minimise the practice's environmental impact and reduce energy consumption, for example by cutting down on the consumption of electricity, water and heat, and by using less environmentally-harmful office supplies, less paper per employee, and fewer flights.



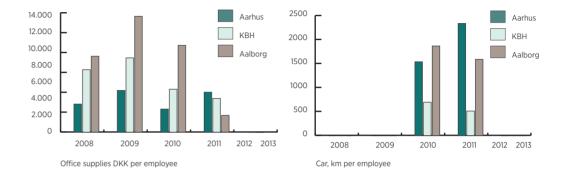
Water consumption, m3 per employee

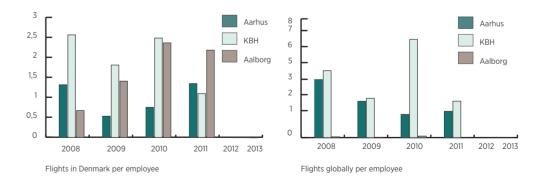


Electricity consumption, kWh/year per employee



Heat consumption, kWh/year per m²





26

Nordic Built Charter

C.F. Møller Architects has been active in the development of the Nordic Built Charter, which acts as the fundamental value system for Nordic construction. The Nordic Built Charter is a Nordic initiative to promote the development of sustainable construction. It was initiated by the five Nordic ministers for trade and industry and adopted in October 2011. We signed the charter on 1 October 2012.

The Nordic Built Charter serves as fundamental value system for the Nordic construction industry, and expresses a commitment to creating a built environment that:

- O1. Is created for human beings and promotes quality of life
- O2. Pushes the boundaries of sustainability through our innovative thinking and knowledge
- 03. Combines urban life with the qualities of nature
- 04. Achieves zero emissions in the course of a lifecycle

- 05. Is functional, stylish and aesthetically attractive, and based on the best aspects of the Nordic design tradition
- 06. Is robust, flexible and timeless built to last
- 07. Primarily utilises local resources and is designed for local conditions
- 08. Is built and maintained through partnerships based on transparent co-operation across borders and disciplines
- 09. Is scalable and can be used globally
- 10. Benefits people, business and the environment

Policies

C.F. Møller's ISO 14001 environmental management system for products and company processes Nordic Built Charter





ANTI-CORRUPTION

Principles

10. Businesses should work against corruption in all its forms, including extortion and bribery.

At C.F. Møller Architects, we are aware of and committed to our role as decision-makers in relation to the physical environment. As independent consultants, we choose methods, techniques and materials in dialogue with professional partners, but independently of the interests of the manufacturers. If we are ever asked to take part in corruption or bribery, we say no to the work and/or break off all co-operation.

As guidelines in this area, we use the tools developed by the Confederation of Danish Industries (DI) and the Danish Ministry of Foreign Affairs – the CSR compass – and share experiences with partners in the Nordic Global Compact network. When we engage in new countries that have a reputation for corruption, we seek le-

gal advice and sort out any problems in the contracts and/or negotiations to promote integrity and prevent corrupt behaviour.

Our response to corruption is a loud and clear "No", and it has not yet been necessary to impose sanctions.

Policies

C.F. Møller Architects endorses the ethical standards and code of conduct laid down by FIDIC, the international organisation for consulting engineers ("Fédération Internationale Des Ingénieurs-Conseils")

CASE: THE NEW UNIVERSITY HOSPITAL IN AARHUS

The largest hospital construction project in the history of Denmark, the New University Hospital in Aarhus (DNU) will be built onto the existing Aarhus University Hospital, Skejby, to form a single hospital complex measuring 375,000 m². The New University Hospital will be the size of a Danish provincial town, and will also be the largest workplace in Aarhus. Construction of the New University Hospital has just begun, in autumn 2012, and the project is scheduled for completion in 2019.

The project represents the demands and expectations of the future towards a university hospital in Denmark, and we have worked to incorporate economic, social and environmental sustainability. We have established sustainability in the following focus areas:

- Evidence-based design
- Efficient operations (working environment & resources)
- Future-proofed and flexible construction
- Energy-efficient construction
- Energy-efficient cooling

We have formulated a total of approximately 110 specific sustainability goals for the hospital, of which more than half relate to operations.

Evidence-based design

In recent years, a large number of studies have shown that aesthetics and the physical surroundings, such as daylight, good acoustics and the presence of nature, can have a significant effect on the healing process. This knowledge helps health sector planners and architects to find answers to practical questions of hospital organisation. It is called evidence-based design.

Evidence-based design has been used in the project to create healing environments that promote physical and mental well-being and healing processes, support the participation of relatives, help staff to be more efficient, and reduce stresses and loads. The design decisions have been based on the best available knowledge from research and project evaluations, and have been assessed in relation to the unique conditions of DNU.





Design solutions which have been shown to promote healing are:

- Solutions that support empowerment and good ergonomics
- Single-patient rooms
- Daylight for all functions
- Views of nature and access to the landscape
- A good indoor climate
- Acoustics and noise suppression
- Solutions that support easier orientation and navigation
- Art

These solutions have been incorporated as important design parameters in DNU. We expect that the evidence-based design choices will give the hospital measurable improvements in patient satisfaction and treatment methods, as well as improvements in the working environment, operational efficiency and productivity.

A better working environment through user consultation

We have systematically incorporated working environment considerations into the planning and design of

the hospital. The aim is to minimise loads and risks, and to promote health and safety, when the hospital is used. Through extensive user consultations with hospital staff, patients and relatives, we gathered knowledge about the working environment. The primary focus was on the design and organisation of the departments, functions and rooms.

An ambitious working environment policy also sets targets for working environment conditions on the actual DNU construction site during the construction period from 2012-18.

Noise and acoustics

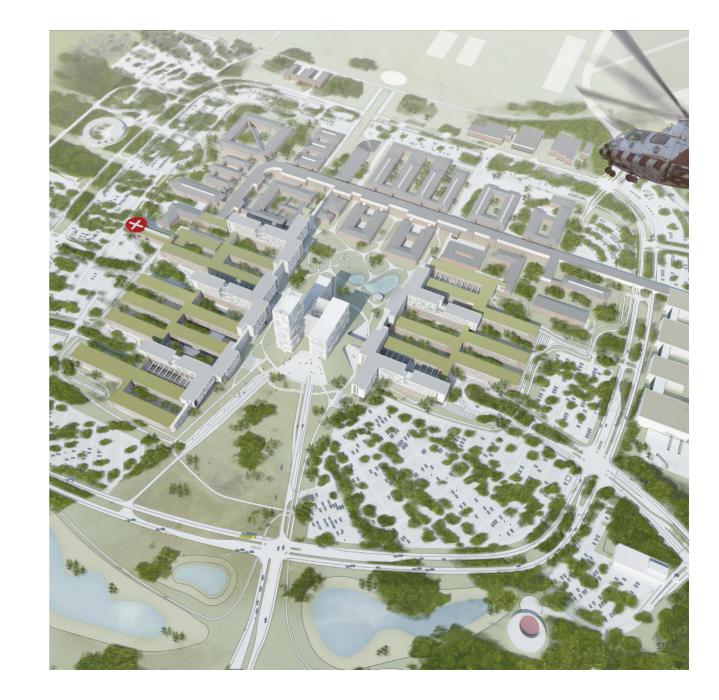
Noise and acoustics are regulated by the Danish building regulations; however, we have introduced further measures in areas not directly covered by the regulations, or where the requirements were sharper in relation to creating an optimum working environment and acoustically improved treatment, recuperation and relaxation environments. The practice's initiatives have included stricter requirements towards acoustic regulation in wards, treatment rooms and public areas, and reduction of noise from hospital equipment in wards and treatment areas. This has for example been done by screening off or moving noisy medical equipment, and by selecting quieter call and alarm systems.

Future proofing and flexibility

The treatment options in the health service are in continuous rapid development, and the hospital service is subject to ongoing optimisation and streamlining. An important design goal has been to ensure that the New University Hospital in Aarhus can meet future demands for technology, therapies and techniques.

We have incorporated a number of solutions in the project to support this goal:

- Typified, generally utilisable building structures and installation systems
- Significantly improved space standards for all primary function rooms
- Single-bed rooms with private bathroom as standard
- Standardised room types and standardised equipment
- Buildings and installations designed to accommodate rational, ongoing renovation and adaptation to match changing functional requirements
- Extensions possible throughout the building structure
- High security of supply and supply capacity
- Sustainable materials and energyoptimised solutions
- Support for fully-automated goods transport systems and fully-digitalised ordering routines.



Screening of materials in materials choice

We have undertaken a systematic screening of the materials used in the construction project – where do they come from, how they are produced, what is their resource consumption, and how do they affect the indoor climate? The materials are assessed on the basis of a holistic approach.

The environmental impact is evaluated, together with the material's fire properties, acoustic properties, insulating properties, cleanability and economy.

The criteria for choosing eco-friendly products included requirements towards both the interior and the surrounding environment:



- Indoor climate (emissions, dust, fibre shedding, moisture resistance)
- Indoor climate during the operational phase (cleaning and other maintenance)
- Impact on the surrounding environment
- Working environment during the construction phase
- Waste and recycling potential on the construction site and at End of Life
- · Natural resources

Energy efficiency

We have created a model for the hospital's future energy requirements that shows a great potential to work with technologies that secure energy recycling, the possibility of great flexibility in terms of production and supply, and significant potential for operational savings and reduction of CO2 emissions.

The hospital is designed to meet Danish building regulation BR2015 for low-energy class 1. We have also developed a system solution that reduces energy consumption in ongoing operations and utilises excess heat from lighting and medical equipment, etc., to meet the cooling demand. The system consists of a combined heating and cooling plant with absorption cooling equipment, heat pumps and a free-cooling system, supplemented with conventional heating.

The hospital will use ventilation systems with so-called rotary heat exchangers for heat recovery (transfer of heat from the extracted air to the intake air). This is a breakthrough in Denmark, as it was previously thought that rotary heat exchangers involved a significant risk of infection and cross-contamination. It has now been demonstrated that this is not the case. When used correctly, they are just as safe as the alternatives, and at the same time they save energy, take up less space, are less expensive and provide a better indoor climate. There are in other words many advantages.

Pre-cleaning of waste water

The waste water system has been designed to enable critical waste water flows to be sent for pre-treatment from each building. This means that new pre-cleaning equipment can be installed at a later date for the individual buildings without requiring substantial changes in the drain and sewer system. This is both more economical and ensures a high degree of flexibility in relation to future factors, when new regulatory requirements are likely to be introduced.

We also work with a number of other measures to ensure resource savings and efficient operations, including waste management, surface water management and soil balance (i.e. the soil excavated on the construction site is re-used to avoid having to consume resources to transport the soil to and from the site).

Sustainability score for DNU

The issue of how sustainable DNU can or should be is, besides being a gues-

tion of ambitions towards sustainability, is also a question of economics. The construction budget for the project has been greatly reduced, but without altering the treatment capacity requirements or room sizes. This has resulted in reduced funds for specific sustainability purposes.

We have calculated the sustainability score for the project to be 45-50% on the basis of the BREEAM system. By comparison, NHS hospital buildings in several places in the UK must on the basis of this method achieve a score of 70%, "excellent", to meet sustainability requirements.

But as sustainability is in many areas simply a visualisation of common sense, operational benefits and environmental concerns, sustainability can generally be secured by showing prudence and diligence in the planning and design, and does not therefore require extra construction expenses.

Facts about the New University Hospital in Aarhus

Client Aarhus University Hospital, Central Denmark Region

Client consultant NIRAS A/S

Engineer Rambøll Danmark A/S, Alectia A/S, Søren Jensen Rådgivende Ingeniørfirma A/S

Architect C.F. Møller Architects in collaboration with Cubo Arkitekter A/S

Landscape Schønherr Landskab A/S

Other partners Nosyko AS (N), Lohfert & Lohfert AS Address Skeiby, Aarhus, Denmark

Address Skejby, Aarnus, Denmai

Size 216,000 m² newbuilding, 159,000 m² rebuilding = 375,000 m², 797 beds, 43 dialysis sites, 80 hotel beds

Plottage approx. 970,000 m²

ar 2007-20

Energy and environment, New University Hospital in Aarhus

45			
"	Minimisation of thermal bridges	14172111111111	Rainwater collection
	Daylight and sunlight		Prefabricated structural components
**	Solar panels/solar heating	<u> </u>	Energy renovation
	Ventilation		Flexibility
	Passive solar heating		LED lighting
	Compact construction		Healthy indoor climate
(8)	High insulation		Noise minimisation
	Energy-conserving windows		Natural ventilation
0	Accumulating, phase-changing materials		Certified construction
	Eco-friendly roofs	2015	Low-energy class (2015)
<u> </u>	Lifecycle analyses		zon analgy class (zolo)
	Sustainable planning		

CONTACT

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