



# **GLOBAL COMPACT COP 2016**

## **COMMUNICATION ON PROGRESS**

**PLH ARKITEKTER A/S**  
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# CONTINUED SUPPORT FOR THE UN GLOBAL COMPACT

PLH Arkitekter A/S is a multi-disciplinary architectural practice focused on stimulating an interactive and productive working environment for our talented and creative people, partly architects, but also interior designers and industrial designers, together with specialists within construction, process planning and communication.

PLH works with a broad spectrum of commissions from architecture, urban planning and workplace design to client advisory and industrial design. The company is often involved in complex, large-scale multi-disciplinary projects that evolve over long timeframes and are often associated with a high degree of confidentiality and proper due process. Regardless of the project type, PLH's commitment to responsible business practices and highest standards of professional integrity is at the foundation of all interactions with clients, collaborators and fellow colleagues.

PLH's business ethics and code of conduct is grounded in more than 35 years of professional industry experience and the commitment of the leadership team to follow responsible business practices in an ever changing global marketplace. Since 2009, PLH has been a member of the UN Global Compact initiative as part of maintaining and developing our social and environmental responsibility.

PLH embraces, supports and enacts, within its sphere of influence, the Global Compact set of core values in the areas of human rights, labour standards, the environment, and anti-corruption. PLH wishes to continue our participation in the Global Compact and we seek to support the principles as an integral part of our day-to-day operation and organizational culture, and where possible align leadership strategies to the ten principles. The principles covering the environment are a focus area for PLH where we can have a measurable, positive impact.

Steen Enrico Andersen, Director, Architect MAA, Intl. Assoc. AIA

July 2016



## Partners



# THE 10 PRINCIPLES

## Human Rights

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

## Labour

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

## Environment

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

## Anti-Corruption

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



# BUSINESS INTEGRITY AND RESPONSIBILITY

## Member of DANSKE ARK

As a member of the Danish Association of Architectural Firms (DANSKE ARK), PLH's operational procedures are based on Danish Legislation and DANSKE ARK'S instructions, guidelines and contractual standards, aimed at strengthening the quality level and professionalism of practicing architectural firms, and covering:

- Level of professional liability insurance and standard contracting agreements - General Conditions for Consultancy and Assistance 1989 (ABR 89).
- Collective bargaining process whereby DANSKE ARK negotiates the general agreements on pay and working conditions etc. of the technical staff in the employment of the member firms.
- Fees and standards for architectural work with individual clients, private client organizations and public authorities.

**DANSKE ARK** also participates in negotiations with public authorities on tax aspects, prices and profit legislation, regulations on competitive tendering, liability and insurance matters as well as building assignment procedures, quality assurance and other terms relating to the professional activities of the member firms.

Based on national and international legislation on human rights, the Danish

Consolidation Act no. 68, of January 2005, and our membership of the Danish Association of Architectural Firms, PLH is obliged to respect the basic conventions.

## Engagement in Business Associations

Several of PLH's 9 partners are leading representatives at DANSKE ARK, acting as members or heads of committees such as the Board, the Contracts Committee, the Committee for Professional Indemnity Insurance, and the Committee for Professional Agreements and the International Committee.

Several partners are also active members of the Architect's Association of Denmark (Akademisk Arkitektforening), represented in the Legal Committee and as the organisation's appointed jury members in architectural competitions.

## Leadership Responsibility

The PLH leadership team members are individually and collectively responsible for ensuring the firm's adherence to responsible business practices and our Code of Ethics.

To that end, the following nominated partners, directors and professional staff have been assigned specific areas of responsibility:

## BIMS & UN Global Compact

Steen Enrico Andersen - Partner and  
Paulette Christophersen - Partner

## Financial Accountability

Torben Hjortsø - Partner

## Financial Reporting

Mie Rasmussen - Finance Manager  
supported by PWC consulting auditors

## Legal Accountability and Risk Management

Jan Sander Fredriksen - Partner  
supported by Philip & Partners Lawyers

## Quality Assurance

Ib Laursen - Partner

## Digital Knowledge Management

Jan Sander Fredriksen - Partner and  
Claus Johannessen - Senior Architect

## Sustainability - PLH Green Team

Søren Mølbak - Partner, Paulette  
Christophersen - Partner, Steen Enrico  
Andersen - Partner and Rie Rosenkrans  
Gjedsted - Architect Cand.polyt.arch

## Staff Representatives

Henning Solfeldt - Product Design  
Manager, Rikke Haugaard, Jesper  
Spager and Laura Mayner - Architects.  
Occupational Health & Safety  
Supervisor Helle Maria Christensen,  
Architect.

**"Our business responsibility is based on high standards of Danish legislation and our active engagement in associations, committees and conferences"**

design for people

"Our purpose is to  
improve quality of life"





# WORK ENVIRONMENT, POLICY AND SOCIAL ACTION

PLH has a clear and balanced gender policy where some of our key values are to embrace diversity of competencies, experiences and viewpoints and to support a humanistic and collegial work style in order to add real value to our business.

## Actions

We recruit solely on proven competencies and experiences, not sex, nationality, religion nor age. Staff members are selected for project teams on the basis of relevant qualifications and experience corresponding with the project demands and our overall strategies and goals for meeting the clients' needs.

## Stress Prevention

In order to promote well-being at work, PLH has in recent years focused on prevention of stress. Two of our employees have undergone

specialised training through the Psychiatry Fund to be able to advise and guide colleagues on issues of stress. The PLH leadership, together with the stress counsellors have prepared an anti-stress policy guideline that covers both preventative actions (behaviours and organisation of work), detection of early warning signs and management of stress affected staff. Any stress affected employees will be offered psychological consultation as needed.

## Employee Involvement

PLH follows the Danish Working Environment Act and, involvement and day-to-day dialogue between the leadership team members and the employees is an integrated part of working at PLH. To make sure employees thrive and develop their skills and competences, every employee has a formalized confidential meeting with the two closest partners once a year. The purpose is to give

the employees an opportunity to address issues related to their work situation - to express their professional wishes and dreams - and to align the wishes of the employee with the overall direction of the company.

## Attractive Workplace

PLH is recognized as a stable and attractive workplace, with many employees being a part of the practice for 10-25 years.

According to our latest annual Work Assessment carried out in 2012, our staff is very satisfied with the working environment, also in relation to the split of sex, nationality and age. We foster an open and inclusive culture where racism or bullying is not tolerated.

## Continued Focus on the Working Environment

Our procedures have proven effective



# WORK ENVIRONMENT, POLICY AND SOCIAL ACTION

Number of employees at PLH split on sex and age. PLH is a team of 94 employees in July 2016



tive and PLH wishes to continue to invest in the working environment in order to remain an attractive, healthy and productive office - retaining and attracting the best. The priority of a responsible work environment and recognition of human diversity is a significant value for the office's ability to evolve in tune with the changing demands, challenges and tendencies of our industry.

## Sharing our Knowledge with Architects from Ghana

We believe that responsible design and architecture is based on understanding people's activity and culture. That's one of the reasons why

we are always curious to meet new people and comprehend their way of thinking. And likewise, we are very happy to share our own knowledge and experiences when it's requested. In May 2016 a delegation of architects from Ghana visited PLH – and we spent an entire day with them discussing architecture, design and sustainable solutions.

## Facilitating Integration - Refugee Intern

As part of our social responsibility policy PLH has made an agreement with The Employment and Integration Committee at the Municipality of Copenhagen

to receive an intern with a refugee background starting August/ September 2016. She is a student of architecture from Armenia. Besides being part of the design office and contributing to the overall workflow, the purpose of the internship is to give her an understanding of what it requires to work at a Danish architecture company. Hopefully her time with us will not only be a great learning experience - but we hope that her stay at PLH Arkitekter will also help her integrate fully into Danish society.

**Our purpose is to improve the quality of people's life through design. This could be at home, at work, at school, in the city, in nature, at the station - anywhere people gather in a space or use objects of design**



## OUR PURPOSE IS TO IMPROVE QUALITY OF LIFE

### Environmental Challenges

PLH's main focus in connection to the principles of UN Global Compact is directed towards environmental challenges and possibilities. PLH has a responsibility to create holistic sustainable and humanistic solutions to the greatest extent that it can influence project outcomes.

### Improving Quality of Life

We are committed to reviewing how our activities can contribute to the reduction of CO<sub>2</sub> emissions and minimize the planet's consumption of fossil resources. However, sustainability is not only a question of energy – social well-being and cultural behavior are aspects that we consider a central part of designing sustainable buildings. Our mission and purpose is to improve quality of life - and the value of our work is found where the built environment becomes a better place for people in all aspects – whether it's a question of minimizing energy consumption, improving indoor climate or providing structures that resolve social challenges. Our purpose and mission statement go hand in hand with the commitment to sustainability.

### Promoting Awareness

PLH supports a considered approach to environmental challenges by promoting our own and others awareness of our impacts on the environment and surroundings. We expect our staff to be conscious of the consequences of their actions concerning the environment, whether it is “locally” at the office or “globally” with a client.

### Sustainability

We understand sustainability as inherent to improving the quality of people's lives. Therefore, sustainability is an integrated element in our projects from the initial thoughts about form and function. We strive to inform our clients throughout the decision making process to optimize the outcomes within the parameters of each project. We see workshops and exchange of knowledge with the project's stakeholders as the optimal foundation for the development of sustainable projects that are also aesthetically, functionally and economically successful.

### Promotion and Goals

Buildings are more than “passive”

users of energy. They are also “active” environments where the accommodation of human needs is an integral part of the creation of environmentally sustainable solutions where people thrive.

PLH has a holistic approach across disciplines creating informed, inventive and sustainable solutions. We are taking several steps to promote our responsibility towards the environment and we include environmental aspects in all phases of our project and construction processes.

### Environmentally Sustainable Design

By focusing attention and knowledge sharing on environmentally sustainable design (ESD) parameters, the practice has been able to inform clients of possibilities and advantages, and advise them about ESD options and systems, that can become an investment in operational savings.

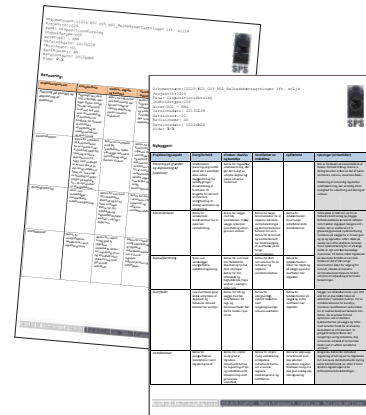
Our significant competencies within the area have also enabled the office to respond to and challenge the expectations of our increasingly environmentally conscious investors and clients.



**“Besides my DGNB consultancy training, I have been educated in using the LCA methods (Life Cycle Assessment) and LLC (Life Cycle Costs). I'm also part of a development team drawing up a new certification tool for existing office buildings.**

**LCA is a tool to perform life cycle analysis to get an overview of the environmental impact of the materials, the consumption of energy for exploration and production, transportation, disposal and recovery”**

**RIE ROSENKRANS GJEDSTED,  
DGNB INTERNATIONAL CONSULTANT,  
PLH ARKITEKTER**



## LOCAL INITIATIVES - GLOBAL IMPACT

### Local Resources

Central to sustainable design is using local resources and adapting the building complex to the local climate conditions, inspired by the local tradition.

Local resources must be explored - wind for electricity, sun for energy, sea water for cooling, rainwater for recycling and underground geothermal potential. Sun screening, lighting control, natural ventilation as well as local and natural materials are important factors in obtaining a comfortable indoor climate and optimized energy efficiency.

The selection or exclusion of green initiatives needs to be seen from a lifecycle perspective. Many solutions will have an appealing pay-back time when considered over a 5, 10 or 15 year horizon for running costs.

### Internal Task Force

The office has established an internal task-force working with initiatives and approaches for internal development, training, debate and knowledge sharing, study trips, lectures, workshops etc. An extensive seminar on energy was held in 2011 in order

to upgrade our design methodologies in optimizing the passive characteristics in buildings.

### DGNB Certification

We have hired new employees with certification training from the newly established Green Building Council Denmark. DGNB Denmark is a Danish certification system for sustainability in buildings which match the international high standards.

We are also part of a DGNB-development team drawing up a new certification tool for existing office buildings. Right now the first office building is being certified as part of the pilot phase.

An essential approach in all our work is the integration of hard factors such as geometries, orientation, location of windows, choice of materials, engineering systems and lighting, with soft factors related to user comfort and welfare.

### Our Office

PLH is working on a targeted effort to minimize the environmental load of the daily running of our own office and to create a healthy and safe

workplace. Resource consumption (power, HVAC, water) as well as the waste of office supplies and paper is continually being reduced.

We are conscious of the environmental impact of transportation to/from meetings, and use office bikes for meetings held within a 5 km radius of the office. Our other initiatives in this area include widespread use of tele-conferences and tele-meetings, together with purchasing carbon quotas on air travel.

It is our aim to be considered as an environmentally conscious office with expertise in the planning and execution of high quality sustainable buildings.



# PLH OFFICE PREMISES

## REDESIGNING A FORMER FACTORY BUILDING

We have transformed and redesigned our own office building - contributing to the social tasks of updating the existing building stock. Our office building was once a factory in the city of Copenhagen - now it's transformed into a new workspace for PLH based on synergies from inside to outside.

### The Refurbishment

The conversion project involved refurbishment of the existing building, adding a mezzanine along one side, as a huge 'piece of furniture' providing 40 extra workspaces upstairs and diverse 'laboratory spaces' below for meeting, model-making, brainstorming and product research. The interior is defined by its spaciousness, with a ceiling height of 6.5 meters, and the tall, narrow industrial windows. The verticality of the space is underlined through the rhythmic repetition of columns and windows, and the inserted mezzanine level creates a

dynamic effect, and exciting new vantage points.

### Showcasing the Industrial Past

The original crane structures and elements such as steel trusses and beams are exposed as a dramatic reminiscence of the buildings industrial past. The cranes are now parked in each end of the studio where they create a 'roof' that defines the café at one end and team space at the other.

### Nominated for The 'RENOVER' Award

Our office renovation was one of six projects to be nominated to become Denmark's best renovation in 2014. Initially, 165 projects were set to the Renovation Award 'RENOVER prisen' in March 2014 and in June 2014 the field was reduced to only 6 nominated projects. An electoral college of 67 represen-

tatives of the Danish building industry evaluated the 6 projects and voted for the best project.

### Preserving History and Spirit

The committee described our project with these words - 'The PLH office has taken a dose of their own medicine and transformed an old factory building to their new studio. The refurbishment is a beautiful example of how to modernize an old building while preserving its history and spirit.' Chairman of the Nomination Committee and former City Architect, Gøsta Knudsen, said: "The six nominated projects are all performed at the highest professional level while showcasing the width of renovation. We have projects that intelligently and artistically interact with their surroundings, projects with enormously ambitious energy solutions and projects that completely rethinks the buildings function without compromising the heritage."



**"It was important for us to preserve and showcase the history and spirit of the building to create an authentic atmosphere. We now have a spacious studio with distinct character - and both employees and visitors enjoy coming here and complement our beautiful office."**

**PAULETTE CHRISTOPHERSEN,  
PARTNER AND LEAD WORKPLACE DESIGNER,  
PLH ARKITEKTER**



# ANTI-CORRUPTION, LABOR AND HUMAN RIGHTS



## Anti-Corruption

According to 'The Corruption Perceptions Index' Denmark is the least corrupted country in the world - and has been for the last 4 years (2011-2015). Although bribery and corruption are not common phenomenon in our culture, we are still very aware of the possibility of nepotism, exchanges of favors, unofficial agreements between companies etc. Therefore, we aim for clarity in all our business agreements.

## Ensuring Human Rights and Labour Rights

Human rights and labor rights are very well protected in Denmark and in

Danish legislation. Being a member of DANSKE ARK - The Danish Association of Architectural Firms, PLH has to follow DANSKE ARK'S instructions, guidelines and contractual standards - and we are obliged to follow Danish legislation as well as respecting national and international legislation on human rights conventions.

## Suppliers and Business Partners

Where PLH can make the greatest difference with regards to human rights and labour rights is when we do business with companies and suppliers from other countries. When possible we always make sure manufacturers of building

materials respect the protection of internationally claimed human rights and are not complicit in human rights abuses. We make sure we only do business with companies and suppliers that respect the rights of their workers, take care of their security and do not use child labour. It's part of our normal procedures to use certified materials and to state in tenders that we do not accept materials produced and manufactured with the assistance of child labour.

We demand good working conditions - if we hear of workers in marble quarries not wearing masks or the use of child labour, we immediately abolish all collaboration.



# SUSTAINABLE SOLUTIONS AND DESIGNS

## # CASES

### **General Approach to Sustainable Solutions at PLH**

PLH's knowledge about sustainable solutions and initiatives, seen in a broader perspective, is developed significantly by implementing specific projects with defined goals from the client's viewpoint, and by participating in competitions. All projects play an important role as "case studies" which reinforce the practice's competencies, skills and profile.

### **Everyday Sustainable Designing at PLH**

Apart from specific project examples, it is important to note that on a daily basis, the staff at PLH is making informed and conscious decisions impacting on the environment when they select and specify materials, finishes, furniture and fixtures. Through one-on-one or group activities, our staff is continually updated on new and emerging products, techniques or manufacturers that can strengthen our ESD approach.

### **Products and Techniques to Reduce Environmental Impact**

PLH will put effort into the specification, use and development of new products and techniques that reduce impact on the environment. As stated earlier, it is a question of using local resources and adapt the construction methods and technologies to the local climate conditions, inspired by local traditions. PLH integrates this in developing projects with the central aim - to improve the environment, generating energy and add value to the human everyday life.

### **Hospice in Svendborg - Building Code 2015, Cradle to Cradle**

In 2011, PLH won the competition for a new Hospice in Svendborg, which was completed in autumn 2012. The recurring theme in the design is to create a homely place where the sense of life is ever-present and nature an integral part of the experience at the hospice. The architectural main idea is to merge form, function and landscape into a coherent whole, with fine experiences for the senses.

The brief demanded an increased requirement for environmentally sustainable design, such that the project meets the criteria of the future Building Code 2015. The hospice is designed and developed in a genuine sustainable matter using new building materials, certificated as "cradle to cradle" products in combination with high standards in insulation and indoor environment. Key energy features in the total energy programme, is the extensive use of solar cells on the roof, approx 15 % of the buildings area, and underground geothermal energy.

### **New Sustainable HQ for DSV**

Over the past years, PLH qualified to participate in many competitions, most of which included sustainability as criteria in the weighted scoring system.

In 2012, PLH won the competition for a new headquarters for the transportation and logistics company DSV with a compact atrium for 750 employees. The building supports DSV's core values of equality and openness, and the competition proposal suggested a series of sustainable initiatives, such as natural ventilation and CTS-controlled external blinds. A large solar power plant on the adjacent terminal could be integrated

on the roof, in order to produce electricity used for forklifts and other local equipment.

### **Revitalization and Drainage of Urban Park - LAR**

In collaboration with landscape architects, PLH also won a competition for transformation and revitalization of an urban park in Husum, near Copenhagen. The proposal incorporates local drainage of rainwater (LAR), which also can contribute to changing experiences in the green precinct.

### **Award for Energy Savings**

In the spring of 2010, PLH received an award for the Aller Building, a multimedia office in Copenhagen. The award acknowledged the building's energy saving planning and sound indoor environment, amongst other aspects. This building is one of PLH's "flagships" in demonstrating a holistic sustainable building, where the workplace design is integrated in a compelling architectural form.

### **Tenant Advisor - UN City in Cph - Benchmark Energy Class 1**

The practice also undertakes a wide range of client advisory commissions, where sustainability goals are a focus for our clients, and an integral component of our approach. Of note is our commission as Tenant Advisor to the Ministry of Foreign Affairs for the implementation of UN City in Copenhagen. PLH has a key role in the development of this new benchmark Energy Class 1 office campus for Denmark. PLH has focussed on ensuring a holistic vision incorporating sustainable workplace thinking, such that UN City will not only be an energy efficient building, but also a healthy and productive workplace.

# PRODUCT DESIGN - LONGIVITY & ENERGY SAVINGS

## # CASES

PLH's industrial design team has put great initiatives in product design that bears modern marks and aims at long lasting validity. This is, among other designs, shown in the PlanSign series, which was designed in 2004 and gained a Cradle to Cradle Certification in 2014.

### 'PlanSign Series' - Cradle to Cradle

The sign is made of 5 mm aluminum, in a very flexible design, that allows it to be combined in countless ways and in many different sizes for indoor and outdoor use. The sign is equipped with the patented magnetic locking system that ensures that it is easy and simple to maintain. PlanSign is the only sign system in the world that is Cradle to Cradle certified. In 2014, the manufacturer DanSign met higher environmental standards and increased their certification level from Basic to Bronze. PlanSign was previously awarded the international product design award "iF Design Award".

### Lighting that Saves Energy

PLH design team developed a new series of light fittings for energy saving lighting. These innovative light fixtures are produced in collaboration with, and for, major international light manufacturing companies.

### 'LumiStone' - Reusable, Long Lifespan, High Efficiency

In April 2012 Philips Lighting launched LumiStone - a new LED fixture designed by PLH (Henning Solfeldt design manager) as the first suspended LED fixture that meets current requirements for office lighting. LumiStone gives a luminous efficiency exceeding 100 lm / W, which is 30-40% higher than T5 luminaires often used for offices. The fixture is elegant, evocative and energy efficient, and is specifically developed to bring a homely atmosphere into the work spaces. It has a unique LED-shielding so the light does not dazzle or distract the user. LumiStone is designed for long life cycling and has a lifespan of approx 17 years by usage of 8 hours a day - and all materials can be reused by a simple separation of the fixtures parts.

### 'LumiLine'

In 2013, the LED technology and the cone-shaped apertures from LumiStone were transferred unchanged into a recessed ceiling fixture, called LumiLine. Design kinship with LumiStone is clear even though LumiLine is a flat, oval luminaire. LumiLine was developed for DSV's new headquarters, where the building's rounded volumes called for a ceiling fixture in a similar friendly expression. The fitting was subsequently also used throughout Alfa Laval's new office in Aalborg.

### 'Tipi' - Solar Cell Lighting

The design team is developing an outdoor portable lamp that collects energy through a solar panel. The lamp is easy to disassemble, pack and bring on outdoor camping trips or to the summerhouse - where there is no electrical light or where it would be ideal to save energy consumption. The lamp can function as a light source on balconies in the cities or be used to light up other exterior areas as garden tables.

**"I develop products with common sense in mind. Firstly, the product should be able to get dismantled into individual components when its lifetime has come to an end. Secondly, the materials or components should be reusable. Thirdly, the product should have as sensible an energy consumption as possible"**

**HENNING SOLFELDT  
PRODUCT DESIGN MANAGER  
PLH ARKITEKTER**



# ENVIRONMENTALLY FRIENDLY TECHNOLOGY

## # CASE - VENTILATION UNITS



### **Recycling of Energy to Improve Air Quality in Older Buildings**

The existing building stock represent a tremendous energy consumption and there is a great potential for reducing the total energy consumption in refurbishments of older buildings.

### **Recycling 4/5 of the Energy Otherwise Lost**

PLH is in the process of developing a ventilation unit that can recycle 4/5 of the energy in the otherwise lost heat, which makes the unit an obvious technical device to use in connection with the renovation of older buildings.

### **Better Indoor Air Quality - and Easier Life for Allergy Sufferers**

The unit is easily applicable and adaptable to different wall thicknesses. It ensures basic ventilation of individual rooms with high heat recovery efficiency transforming the energy to fresh air entering the room. It is also possible to incorporate filters that make life easier for allergy sufferers and the unit improves indoor air quality.

### **Operates Automatically**

The unit operates automatically depending on the indoor climate. With more people and high levels of CO<sub>2</sub> or humidity in the room, the unit automatically increases the ventilation intensity.

### **Energy Efficient Technologies**

The project was initially sponsored by the Innovation Fund (Fornyelsesfonden) and one version of the unit is now sponsored by the Market Maturation Fund (Markedsmodningsfonden). A slightly different version of the unit better suited for kitchens and bathrooms is sponsored by the Danish Public Service Agency 'Elforsk' which supports research in and development of energy efficient technologies.

The unit is being tested in a residential area in Kokkedal and is expected to be ready for production at the end of 2016.



# SOCIAL SUSTAINABILITY - REVITALIZATION

## # CASE - HUNOSØGÅRD

### Social Sustainability at PLH

At PLH we understand social sustainability as a process for creating sustainable, successful places that promote well-being and improve the quality of peoples' lives by understanding what people need from the places they live and work. This means that when we design with social sustainability in mind we aim to combine the design of the physical realm with design of the social world – this could be infrastructure to support social and cultural life, social amenities, systems for citizen engagement and spaces for people and places to evolve.

### New Local Gathering Point

The aim of the conversion and expansion of the estate and mansion of Hunosøgård was not only to strengthen and increase the number of visitors and hotel-guests coming to enjoy the unique nature – but also to make Hunosøgård a new local gathering point marking the start of a revitalization of the entire community.

### Reversing the Depopulation

The island of Møn, as many other areas in the outskirts of Denmark, suffers from increasing depopulation with a

decrease in commercial activities as a consequence. The project to develop Hunosøgård opens up the estate to the public and the local community by creating a cultural center and farmers market where locals can sell their foods and products to hotel guests and tourists in the area – and where cultural activities such as exhibitions by local artists and outdoor activities can take place.

### Increasing Local Activities

The new Hunosøgård thus helps revitalize the community by increasing cultural and commercial activities.

**“Our mission is to improve the quality of people's life through design. That's why it's especially important for us to be part of projects like Hunosøgård that not only improve the everyday experience for the immediate users - but also help create success and better conditions for people in the entire community”**

**SØREN MØLBAK**  
PARTNER AND LEAD DESIGNER - PLH ARKITEKTER





# SOCIAL SUSTAINABILITY - REVITALIZATION

## # CASE - PIER OF NEXØ

### A Transformation Project

Just like 'Hunøsgård' the project to develop the harbor of Nexø - 'Nexø Mole' - aims at revitalizing a part of the harbor benefitting the entire community both culturally, aesthetically and economically. A transformation project of this caliber does not only improve the everyday lives of the local people - it also attracts and increases trade, enriches the business community and attracts tourists.

### Unique and Authentic Atmosphere and Destination

Old grain silos are among the buildings to be transformed into restaurants, hotels, cultural institutions and shops selling local crafts, art and foods. The combination of industrial buildings telling the story of busy days in the old industrial harbor - and new and modern structures create a unique and authentic atmosphere and cultural destination for locals and tourists. A high silo is transformed into a hotel with fantastic views and activities such as rappelling down the silo may become possible.

### A Place Full of Life

The numerous possibilities and activities on the pier of Nexø will create a new destination to the benefit of the economy on the island of Bornholm and the future development of the city of Nexø. The new destination of 'Nexø Mole' will be a place filled with activities and life all year round and all hours of the day. A destination where visitors come to experience great food, theatre, concerts, shopping in market halls, local crafts, galleries and unique accommodations.

**"We aim at creating an attractive and authentic industrial atmosphere similar to The Meatpacking District in Copenhagen"**

**SØREN MØLBAK  
PARTNER AND LEAD DESIGNER  
PLH ARKITEKTER**





# SOCIAL SUSTAINABILITY - BETTER QUALITY OF LIFE

## # CASE - FIXER ROOMS HALMTORVET

### A New Injecting Center in Copenhagen

PLH is transforming a former storage building in the Meatpacking district in the central part of Copenhagen into a medically supervised injecting center. The center opens to the public on August 1, 2016. It is located at Halmtorvet 17 in the neighborhood of Vesterbro – a very mixed neighborhood populated by artists, creative businesses, restaurants, galleries but also an area frequented by drug abusers and afflicted by drug-related problems and crime. The injecting center is an initiative aimed at improving the conditions for the substance abusers themselves, but it's also aimed at diminishing the problems and the discomfort related to drug-issues for the majority of the people living in the neighborhood.

### A Better Life for Drug Users and Reduced Inconveniences for the Community

The center is open 24/7 and designed to facilitate the intake of drugs while staffed by health professionals. The purpose is to give drug users a better life and diminish the number of drug related deaths and overdoses by assisting with

supervision of and counseling from medical staff that can offer first aid as well as a chance to rest after drug intake, acute nursing and counseling on other health services and treatments. Besides saving lives and create good relationships with drug users in order to refer to establish a connection to other services and treatments, the aim is to reduce inconvenience for the locals while creating a safer neighborhood in order attain a peaceful coexistence of drug abusers and the rest of the community.

### Architecture Creating Stability, Security and Safety

The users of the center need a safe and welcoming place where they encounter respect and tolerance. The character of the spaces must therefore give a sense of calmness and discretion without an institutional touch, so the users experience stability and security. Safety is a key issue for both staff and drug users. Nudging through design and communication makes it possible to affect user behavior in a positive direction preventing conflicts and creating more fertile situations and ensuring staff-overview and visual contact with other staff

members. It's estimated that approx. 500-1000 drug users live in Copenhagen and that the majority will pass through the center on a daily basis.

### Cooperation, Engagement and Involvement

Authorities, politicians and locals pay great attention to the new center and the impact it will have on daily life in the neighborhood. Because of the special nature of the project it's founded on cooperation, engagement and involvement between different interested parties such as health professionals, the local community, the local police, the Meatpacking District facility department and the client – the Municipality of Copenhagen. All parties are part of a Building Committee where the entire socio-cultural and health spectrum is represented. PLH has carried out an intensive and structured process with the Building Committee and the building's space program has been clarified and adjusted in accordance with the economy. Being able to decode all issues, suggesting the right solutions and navigate an area of great public and political attention is imperative to a project like this.

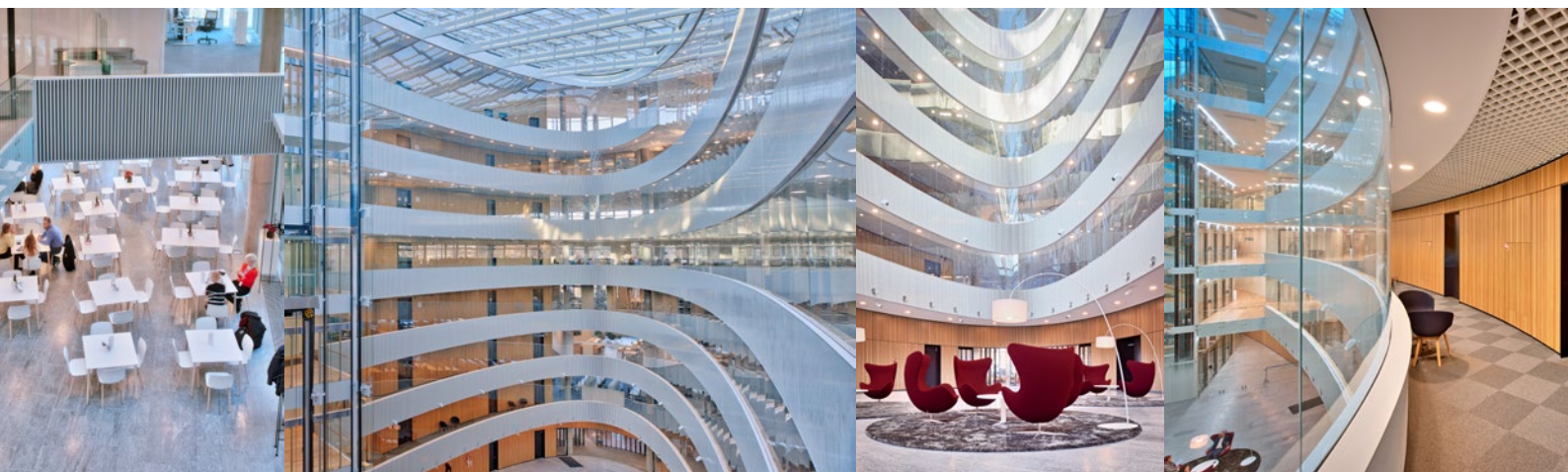
**"I have to put myself in the place of the users to create an optimal framework their living and working conditions. This case has been very interesting because the living conditions of drug abusers are so extreme. And it has been inspiring to experience the people who – on a daily basis – are fighting for dignity and decent lives for drug abusers."**

**RIKKE HAUGAARD SEJERSEN**  
LEADING ARCHITECT  
PLH ARKITEKTER



# ENERGY EFFICIENCY & SUSTAINABILITY

## # CASE - K29



### Most Eco-Friendly Building in Vilnius

The K29 business center is a major, new landmark in Vilnius built from all natural and mostly local, eco-friendly materials making it the most eco-friendly building in Lithuania to date. K29 sets the standards for a healthy and attractive workplace in Lithuania. The building is situated on Konstitucijos Prospektas (Constitution Avenue) creating a transition area between a large park area to the north of Vilnius and the city's international business area in the east.

### Holistic Design Approach with 'People', 'Profit' and 'Planet' in Mind

Through a successful integrated design process K29 has been developed and designed with the three objectives 'people', 'profit' and 'planet' in mind. When PLH designs with 'the planet' in mind it often means investing in local, sustainable materials and labor force and designing structures that promote sustainable behavior. When we design for 'people'

it means investing in an attractive and healthy workplace ensuring increased user satisfaction and wellbeing. And when we design with 'profit' in mind it means designing structures that add value for our clients as well as the users of the new structures.

### Optimized Energy Savings

K29 is equipped with the newest building management system optimizing energy savings. It has an efficient water management system and the lighting design is created with the newest and most energy efficient components. All meeting rooms, ancillary spaces, toilets etc. are equipped with light sensors - and the lighting design as well as the natural light control system has been designed to give the users a maximum feeling of wellbeing.

### Less Need for Power Related to Cooling and Ventilation

The façade is an advanced double skin construction with energy glass and an automated solar control system. The building

has a hybrid ventilation and cooling system with natural ventilation of office spaces with high-sitting openable windows on the inner façade and through the atrium skylights as well as ventilation on each floor following the newest guidelines.

### Local Resources

Central to the sustainable design parameters of PLH is using local resources and adapting the building complex to the local climate conditions. In the building of K29 local materials, local manufacturers and local contractors have been used - to the benefit of the environment, the local community and the economy of the project.

### A Building Designed for People

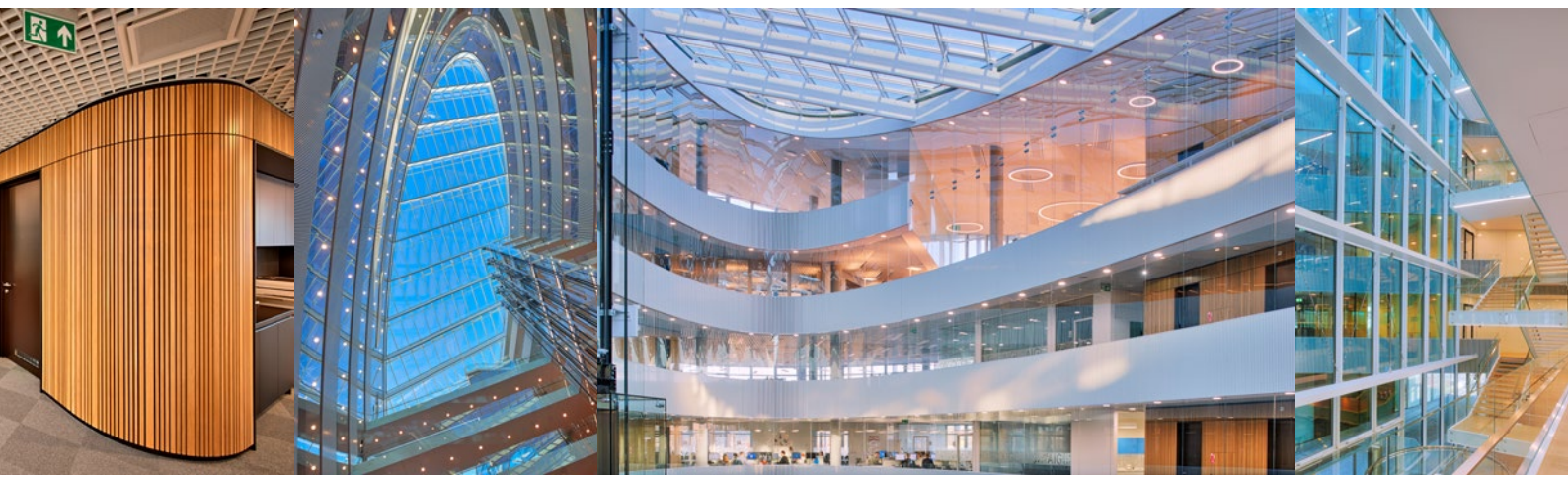
Designing for people and improving the quality of life for the users is part of the





# "DESIGNED FOR PEOPLE"

## # CASE - K29



overall PLH-approach – and it has been for many years. PLH was the first architectural company in Denmark to design workplaces focusing on learning environments and how the architecture can strengthen the integration and knowledge sharing between different business areas of a single company.

### Maximum Daylight Access

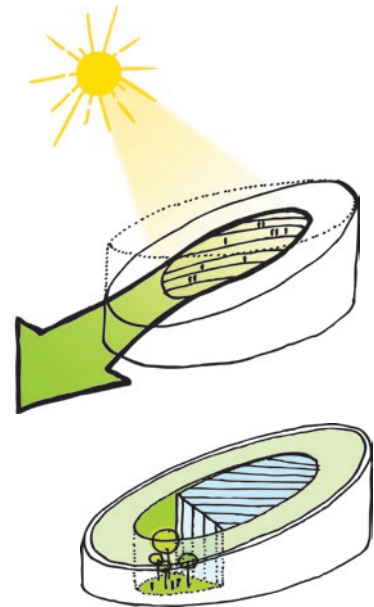
The oval shape of the building with the central atrium and a sloping roof gives optimal conditions for daylight for all users. Because of the sloping roof, light flows in to the atrium most of the day – and users close to the windows of the inner atrium can look beyond the atrium itself having visual contact with the cityscape beyond the building. The building thus ensures maximum wellbeing and daylight access having no dark areas.

### Acoustics Design

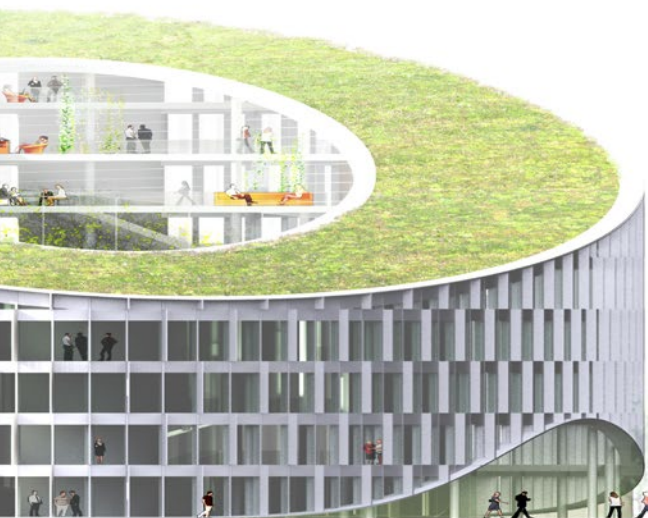
The acoustic design has had a strong focus on creating the best auditory environment for the users in all areas of the building. Besides the ceiling tiles and carpets, specially designed core cladding and balcony frontages are important elements of the acoustic control.

### Enhanced Physical Working Environment

Design elements like double facades, an optimal location on the site and a maximum utilization of daylight are all elements that enhance the physical work environment. K29 is the first atrium office building in Lithuania offering a variety of shared settings in a pleasant indoor climate all year around – and tenant feedback shows an increased workers satisfaction and productivity.



**"We are very proud that K29 recently was awarded best office building in The Baltics. K29 was awarded because the building creates increased worker satisfaction and productivity, improved health, greater flexibility and enhanced energy and environmental performance of the workplace"**



**STEEN ENRICO ANDERSEN**  
PARTNER, DIRECTOR AND LEAD DESIGNER  
PLH ARKITEKTER



# DGNB - CERTIFIED GREEN BUILDING

## # CASE - ALFA LAVAL

### A Sustainable Office for a Sustainable Company

The new office building for Alfa Laval in the city of Aalborg was inaugurated in 2015. Alfa Laval is a global player within high tech components for the maritime and shipping industries. Alfa Laval develops machine components that minimize the fuel consumption in ship engines. The company is known for its environmentally conscious approach with a strong focus on sustainability – an approach also reflected in the new office building.

### Energy Reducing Measures and Responsible Materials

Throughout the design and construction phases there has been a strong focus on creating an office that supports the company profile as an environmentally

conscious, sustainable and high-tech business. Thus several energy reducing measures are integrated in the building design which, in combination with selecting responsible materials, creating a sound indoor climate and other sustainable solutions, bring the building, as the first in the Region, to be certified 'gold' within the DGNB-system.

DGNB (Green Building Council Denmark) is a Danish certification system for sustainability in buildings which match the international high standards.

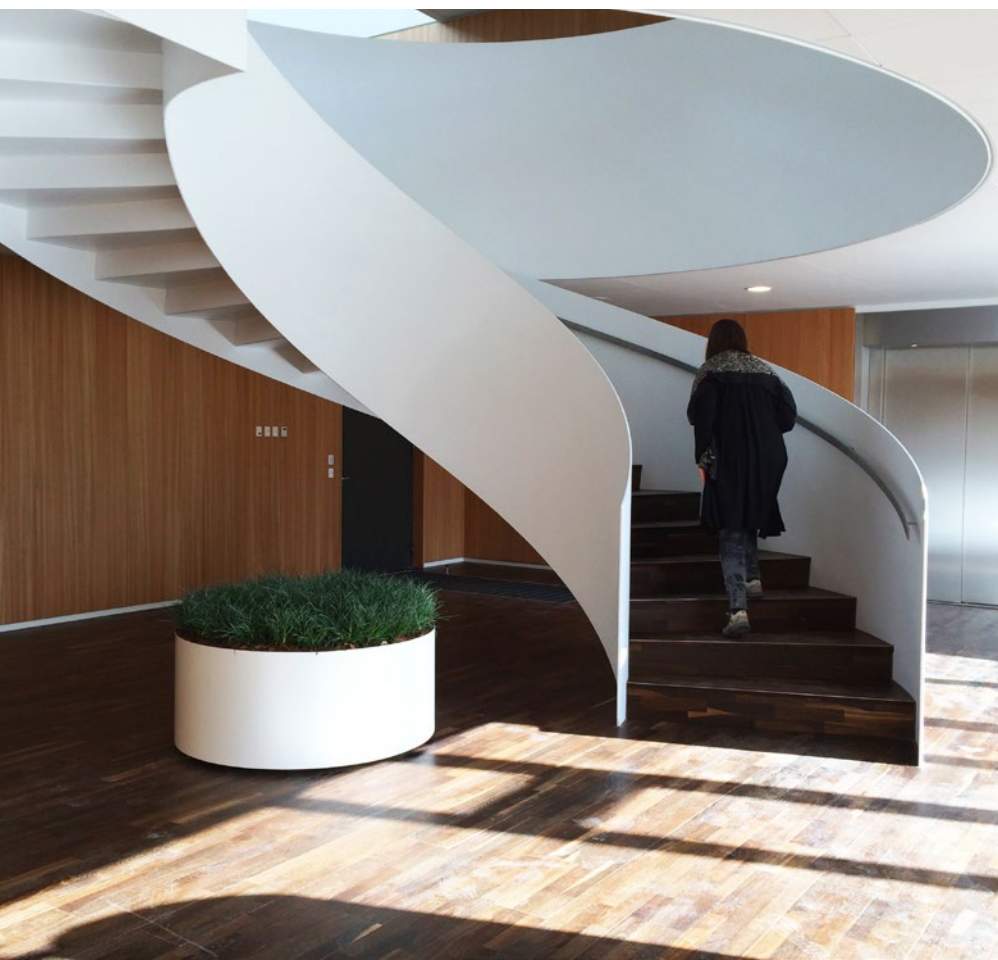
### Sustainable Measures and Materials

Among the sustainable measures are solar panels, automatic sun screening and low energy led-lighting. Likewise sustainable materials such as FSC certified wood products and eco-efficient construction

and building materials are widely used in the new office building. In addition CTS-regulated sun screening and windows with thermal and photometric qualities have been used.

**"I has been very satisfying working with a client with such a high awareness on sustainability - and we are really happy with the finished result"**

**SØREN MØLBAK**  
**PARTNER AND LEAD DESIGNER**  
**PLH ARKITEKTER**





# A HEALTHY WORKING ENVIRONMENT

## # CASE - ALFA LAVAL

### A Healthy Working Environment from the Get-Go

Creating a healthy and stimulating indoor working environment for the employees with high standards of indoor climate has been an essential success criterion from the very beginning. A great working environment ensures happy, healthy and productive employees to the benefit of everyone working or spending time inside the building.

### Visual and Acoustic Environment for Health and Wellbeing

The visual environment has been developed by ensuring access to plenty of daylight and great visibility with no blind areas in all office areas. Likewise, a great acoustic environment has been developed by using sound absorbing materials

and solutions that reduce noise and the transmission of sound.


### Flow, Flexibility and Openness Bring Employees Together

The new office brings employees together in a bright, friendly and straightforward building where all workplaces are equal. Flow and flexibility are the key themes in the layout design, creating an openness that invites employees to move around. Alfa Laval is an important player on the global market and employees are often out of the house travelling abroad. Therefore a need for flexible workplaces where employees can move around arises. The flow, flexibility and openness help create a workplace that is easily adaptable when new needs arise - to the benefit and wellbeing of employees, guests and everyone else spending time

in the building. A vast, 'secure' terrace-area surrounds large part of the building, giving employees easy access to the outdoors without compromising security and access to the confidential materials developed by Alfa Laval employees.

### A Variety of Rooms to Support Different Working Patterns

There is great variety in informal and formal meeting rooms and places where people can gather to support the activities and working patterns of the various departments. Additionally, there are lounge areas where employees can hold meetings with external guests. Most of the more social activity-areas are placed in and around the central atrium where people talking and holding meetings do not disturb employees in need of silence and concentration.



**"One of the key elements in creating a healthy and productive workplace where people thrive is offering different areas to match different working situations - employees can alternate between quiet areas for concentrating and busier areas for socializing, receiving guest and having meetings. At Alfa Laval's new office they can even step outside on the terrace for an outdoor meeting."**



**PAULETTE CHRISTOPHERSEN,  
PARTNER AND LEAD WORKPLACE DESIGNER,  
PLH ARKITEKTER**





# SUSTAINABILITY - THE ENVIRONMENT & IMPROVED INFRASTRUCTURE

## # CASE - METRO CITYRINGEN, THE CITY CIRCLE LINE

### **Metro Cityringen**

PLH is the design architect on 17 new underground metro stations in Copenhagen – a large expansion of the 2 existing first generation metro-lines with a new circle line, 'Cityringen' (The City Circle Line) to open in 2019.

### **Connecting the City**

The Cityringen Circle Line will be a 15 km underground railway under downtown Copenhagen and the quarters of Østerbro, Nørrebro, Vesterbro and Frederiksberg.

### **Reduced Travel Times**

When the new circle line will be in service, passengers already using public transportation will very easily be able to transfer to the existing metro, the regional rail and the commuter train network. This will result in dramatically reduced travel times - and an estimated rise in the use of the public transport system both by commuters, tourists and Copenhageners.

### **Reduced CO2 Emissions**

It is expected that the improved public infrastructure will reduce the number

of people using cars to enter the city – and therefore the expanded metro will reduce CO2 emissions.

### **Improved Quality of Life**

By minimizing the time users spend each day commuting to work, the new metro circle line will also save a lot of people a lot of time, thus improving the conditions for users. In addition the new station design is based on the principles of large open spaces, the use of daylight and easy access from street to platform with improved wellbeing for users and everyday commuters as a consequence.

# PLH GLOBAL COMPACT AMBITION 2016/2017

PLH is proud to be a member of Global Compact. In the year ahead we will continue to seek opportunities to support and enact the 10 principles.

In particular, we aim to show built works that demonstrate more extensive and measurable outcomes in the area of environment.

## Human Rights

We will continue our membership of DANSKE ARK, continue to follow DANSKE ARK'S instructions, guidelines and contractual standards. PLH will continue to follow Danish legislation as well as respecting national and international legislation and human rights conventions.

In addition we will continue to demand that collaborators, business partners, suppliers and whoever we have business dealings with - both in Denmark and abroad - will respect national and international legislation and human rights conventions.

## Labour

We will continue our membership of DANSKE ARK, continue to follow DANSKE ARK'S instructions, guidelines and contractual standards. PLH will continue to follow Danish legislation on labour standards and will continue to dissociate ourselves from all forms of discrimination.

In addition, we will continue to invest in the working environment making PLH Arkitekter an attractive workplace - retaining and attracting the best. Upholding a humanistic and collegial working style, high employee involve-

ment, stress prevention and creating a responsible working environment where human diversity is recognized will continue to be very significant factors for the office. Furthermore, we will continue to recruit solely on proven competencies and experiences - not regarding gender, nationality, religion, age or other discriminating criteria.

We will also continue to demand that collaborators, business partners, suppliers and others we have business dealings with, will respect and uphold the freedom of association, recognize the right to collective bargaining, support the elimination of all forms of forced and compulsory labour and child labour and support the elimination of discrimination in respect of employment and occupation.

## Environment

PLH will continue to support the principles 7, 8 and 9 of The UN Global Compact as an integral part of our day to day actions and creative processes. We will continue to design sustainable solutions and structures that support and promote sustainable behavior – and continue to promote sustainable solutions to our clients.

Our central purpose is to improve the quality of peoples' lives - and we will continue to design with the 3 objectives 'People', 'Profit' and 'Planet' (A triple bottom line) in mind. The triple bottom line-approach ensures sustainable design that also better the lives of the users while at the same time improving conditions for the client.

We will aim at creating sustainable, successful places that promote wellbeing and improve the quality of peoples'

lives by understanding what people need from the places they live and work.

Through research, innovation and cooperation with manufactures, institutions and clients we will continually strive to develop and diffuse sustainable solutions, environmentally friendly technologies and new sustainable structures that underpin and promote environmentally responsible behavior.

## Anti-Corruption

We will continue to work against corruption in all its forms and avoid nepotism, exchanges of favors, unofficial agreements between companies and other forms of bribery aiming for clarity in all our business agreements.