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The Livinggreen.eu project is progressing fast and it's clear to see: this newsletter tells of achievements made in all partner cities. Three investment partners report on the progress of their renovation projects and one partner has finalised their restoration and held a very successful opening event. The activities of the livinggreen centres keep pace with the restoration works: we have held a range of events and new target groups have learned how to renovate and live in a sustainable way. Local networks have been widened and strengthened.

achieved so far in informing and inspiring the general public to see what they can do to renovate and to live in a sustainable way. We hope that these success stories inspire you too and provide you with ideas that you can implement in your own organisation or municipality. Happy reading!

The Livinggreen.eu partnership

We hope that you will enjoy reading about all that has been

**London livinggreen centre a fact**

**Morden Hall Park London opens Livinggreen centre**

**Opening events**

The newly renovated Livinggreen stable yard at Morden Hall Park, London, is now complete and open to the public as a demonstration centre on green living. Fiona Reynolds, Director General of the National Trust, officially opened the centre on 3 November 2011.

On Saturday 5 November the centre opened to the public, over 800 visitors came to experience the new exhibition on green living and to learn more about the project. They were also able to participate in a Livinggreen Lab, run by Delft University of Technology, where they could learn how to make their own homes more sustainable.



The National Trust team were pleased to welcome their Livinggreen partners to the launch events, which took place during the 3-day bi-annual project meeting.

Caroline Pankhurst, Zoë Adams and Zoë Colbeck from the UK project team (holding the EU flag) with Livinggreen partners outside the newly renovated stable yard. Credit: Professional Images.

The partners were excited to see the finished renovation project and to learn lessons from it to take back to their own projects.



Nicolas Rochet and Marie Loix from Espace Environnement look at the solar panels in the National Trust's stable yard. NPTL/Caroline Pankhurst.

**Demonstration centre**

The restored stable buildings are an exemplar of sustainable renovation in an historic environment. They utilise three different types of solar panels, one of which is designed to blend in with the original roof tiles, an air source heat pump, a wood burning stove, six types of insulation (from cork to hemp to Spacetherm), intelligent membrane (to achieve a high standard of air tightness), MgO board instead of gypsum plasterboard, lime plaster, triple glazed doors, double glazing in the original windows and underfloor heating using recycled crushed brick plates. Giant rainwater harvesting tanks beneath the stable

yard floor collect water to flush the toilets (except in one very innovative toilet, which has the wash basin built into the cistern). Recycled and natural materials have been used wherever possible, for example, glass collected in the Park has been made into café tables, and the café chairs are each made from 111 recycled plastic Coca-Cola bottles.

**Centre of ideas and demonstration**

The Livinggreen centre will be a source of ideas, information and inspiration to anyone who has an old home or building to renovate or maintain. It aims to show people that green living can be incorporated sympathetically into historic buildings, and it can also be fun.

The centre has been designed not only to be energy-efficient but also to demonstrate best practice – among homeowners, builders, architects, businesses, urban designers, local councils etc. The Livinggreen exhibition tells the story of the renovation project and explains the range of energy saving insulations, recycled materials and green technologies, which have been used. It includes interactive exhibits, which are popular with visitors of all ages.



A young visitor learns how solar panels work. NPTL/Caroline Pankhurst

For more details see <http://nationaltrust-mordenhallpark.blogspot.com>

**Ludwigsburg low energy Family Centre**

**Ludwigsburgs Hartenecker Höhe opens Child and Family Centre in renovated, low energy historic building**

**Icon in new residential quarter**

On the site formerly occupied by the Flak barracks the construction of the residential development Hartenecker Höhe is making rapid progress. A central component of this new residential quarter is the new municipal Child and Family Centre which was inaugurated on Wednesday, October 19th. For the centre a listed gymnasium was converted on the basis of a house-in-house-concept so that the historic envelope of the building could be preserved. The total cost of construction amounted to 3.2 million Euros and another 600,000 Euros were spent on furnishings and the exterior facilities.

One side of the ground floor of the building accommodates nursery facilities for 20 under 3-year olds. These comprise areas for playing and running around, a sleeping room and a large breakfast and dining area. The other side of this floor hosts the family centre, which includes rooms for meetings and different kinds of events. The upper floor is for children aged three to six and has different rooms where they can play, move about, try things out or simply explore. There is a bedroom and an area for eating. In addition children can use the film room of the old Flak Casern to investigate phenomena such as light and shade.

**Inner building**

The new inner building has been designed as a steel skeleton construction that was placed on individual concrete foundations and built into the hall afterwards. The ceilings are made of wood. Most of the walls facing the old hall have floor-to-ceiling glazing. To make sure that the rooms within the inner building and also the hall benefit from a maximum of daylight, skylights were incorporated into the roofs of the hall and the upper storey of the enveloped building.

**Low energy**

The heat for the Child and Family Centre is produced sustainably in the wood-heating power plant of the local utility Ludwigsburg-Kornwestheim and transported to the building through the municipal district heating network. In addition, a ventilation system with heat recovery is used in order to minimise ventilation heat losses. The system has been designed in a way that in summer it can be switched off in all the rooms along the south and east façade and only the central rooms are supplied with fresh air throughout the year. Moreover, the new inner building has its own thermal envelope. The roof was fitted with 16 cm of insulation material. Along the east and the south of the building, that is, where it adjoins the existing building, mineral insulation boards were inserted.

In part of the historic hall a large indoor area was created which is not heated and in spring and autumn can be used as additional free space by the children and visitors of the family centre. At the same time it effectively functions as a large buffer, which contributes positively to the energy balance of the new building by reducing energy consumption by around 17%. Another advantage is that the filigree woodwork of the old roof support structure remains visible this way.

**Material**

The wood ceiling elements have been sourced from domestic conifer. Slits were cut into the soffits to improve sound absorption. The cavities in the ceiling were filled with stone chips in order to achieve better insulation against footfall and impact noise. The floors were covered with linoleum. All wood-frame windows in the old part of the building as well as the glazing of the inner building have been fitted with thermal insulation glazing.

**White Rose Corridor****Entrance-hall and corridor of the White Rose Mansion sustainably renovated**

The 18th century entrance of the White Rose Mansion is of particular (cultural) historical importance. The white marble floors and the white plaster of the ceilings and walls of the forty metre long corridor is welcoming and light, although there are virtually no windows.

**Decay**

The floor, walls and ceilings were in a deplorable condition for many years. There was considerable damage due to an inexpert concrete construction in the neighbouring property, the past use of the street in front of the house for lorry transport, and leaks as a result of poorly maintained gutters by previous owners.

**Restoration works respecting the heritage**

The tiles from the marble floor were individually numbered and

photographed, removed to the stonemason's workshop, then cleaned and glued and returned to the renewed, insulated floor.

Many wooden ceiling bearings needed to be replaced because they had rotted away. The ceiling construction has been restored in traditional fashion, with straw over which the plaster is applied in different layers. This ensures that the ceiling becomes one entire structure, which can also accommodate movement. The straw, moreover, has an insulating effect.

Loose ornaments and frames have been replaced or restored. The profiles were carefully cleaned of the many chalk layers, which had built up over the last 200 years and because of which the charming plasterwork had lost its precision.

Different plasters were used for the plasterwork depending on the foundation that was being worked upon. Gypsum and hydraulic chalk are the basic elements. The restored plasterwork still needs a long time to harden. In days gone by men would wait a year to give the crystallization process time to be complete. Next year, after the plaster has fully dried it will be finished with a further layer of lime paint.



Want to learn more? Please visit <http://youtu.be/-weVUpeKVoy>

**Lille design final****City of Lille Sustainable Housing Centre: the winning design**

A team led by Demathieu & Bard building company + Atelier 9.81 architects won the competition for the restoration works of the factory that will become Lille's livinggreen centre.

**The main qualities of the design**

The preservation of the building's architectural identity (despite the current damaged condition): the industrial shape will be conserved, as well as the main brick walls, metallic pillars supporting the roof and the chimney, which has iconic value. On the south side a glasshouse will be added. This guarantees bioclimatic added value to the building. It will also be the main entrance, thus providing good accessibility. The design provides for functionality, modularity and adaptability of spaces: on the ground floor there will be space for exhibitions and workshops, and information- and advice desks for the general public. Furthermore there will be a common room for local partners to use. A little flat roof will also provide space for public exhibitions and outside workshops.

**Low-energy renovation**

The renovation quality is of a high level: the design aims at low energy consumption. A lot of attention is given to a good level of inside natural light and the walls will be insulated with Métisse (eco-material made from recycled jeans). Heating will be provided with a geothermal heat pump and a floor heating system. Solar panels provide hot water, and rainwater will be harvested and reused. For ventilation a mechanical ventilation system will be installed. Eco-paints will be used on inside walls. Special importance is given to vegetation. Above part of the construction a wire grill covered with climbing plants will be installed. The glass house will also contain some plants, and on the flat roof there will be space for a green roof and gardening workshops.

**Opening mid 2013**

The costs of the global renovation works are about 2.000 € (exclusive of VAT)/square metre. Renovation will begin in

February-March 2012 and the opening is expected mid-2013. During the construction period the city of Lille will start the creation of the permanent exhibition (scenography, furniture) and will organise site visits and other activities both for the general public and for professionals. In cooperation with a large local partnership the City of Lille will prepare and plan the Sustainable Housing Centre programme.



## London Livinggreen Labs: renovation materials

How can we engage the general public in thinking on renovation materials? This was the challenge that we took on for this year's Livinggreen Labs. Choosing the right materials when renovating plays a major role in the energy performance of buildings after renovation. But where do these materials come from, what is their impact and how do you choose? Delft University organized two Labs with the National Trust in Morden Hall Park, London, to answer these questions.

### Material experience

The first Lab was held during the Green Day Out on the 17<sup>th</sup> of July, at a stand in the park where visitors were invited to get inspired by materials. Samples of building materials, exciting products made from waste materials and even a material life cycle game were just a few of the ways that visitors could interact. Unfortunately, the rainy weather kept many local residents at home.



### Planning the ideal renovation

The second Lab was held in November, in the Snuff Mill at Morden Hall Park, where private homeowners gathered to work on a roadmap to their future sustainable house. The Lab was combined with the festive opening of the newly renovated Stableyard, which the participants toured to get ideas. Through value mapping and back casting participants composed a plan of how to go about the renovation of their homes. Starting from a future vision, participants worked back to the present, identifying the steps they can take now to realize their ideal sustainable house in the future.

### Coming up next

The livinggreen lab theme that is on next in the series will be Heritage. This lab will be organized in the City of Lille, France. Dealing with heritage while renovating can be very challenging. This lab aims at showing participants a way to make this easier.



## Reaching out to low income families

### Espace Environnement makes RenoTeams available for low income families

The RenoTeam approach aims to help home owners make sustainable improvements to their homes, particularly taking into consideration the heritage of their building. Livinggreen.eu partner Espace Environnement has worked with several RenoTeams, consisting of home owners with middle or higher incomes. Espace Environnement now also wants to make the benefits of working in RenoTeams available for low-income families.

### Different target group, different approach

To set up this RenoTeam, it was necessary to completely adapt the methodology of the regular home owners RenoTeam approach. A certain number of issues amongst low income families are more apparent than in other target groups: illiteracy can be an issue, cultural origins are of influence, and religious faiths and certain susceptibilities related to social and economic circumstances must also be taken into account. Therefore Espace Environnement worked closely with the Social Welfare department in Soignies, who helped to find five interested families and offered overall support with the project.

### Different approach

For this 'low income family RenoTeam' two individual meetings with each of the families and two collective meetings were organised.

The aim of the individual meetings was to understand thoroughly the circumstances of these families and to build a trusting relationship with them. These meetings also aimed at prioritizing their renovation works in line with their possibilities and helping them to understand the quotations they received from contractors.

The aim of the collective meetings was to address specific themes that concerned the participants directly, such as the notion of 'heritage', safety in the house, the notion of 'comfort' and 'interior pollution'. By explaining these notions, the RenoTeam members became aware of the quality of their house and understood that it was possible to save money by making simple adaptations, e.g. heating only the room you spend time in, or making the sunniest room the main living space.

### Awareness raised, but more work to be done

As a result of having taken part in this RenoTeam the participants changed their view of their environment and of their local heritage. However, some families chose to first attend to the improvement of safety and to healthy conditions in their home, before looking at other possible investments such as double glazing. The families learned a lot but it will be necessary to repeat recommendations and advice given in order to make the awareness permanent. Therefore further cooperation with the Social Welfare Center is very important.



## Living green for young and old

### EcoHuis Antwerp targets young families - How to promote 'living green' for both adults and children

### Breaking with tradition

Traditionally in October EcoHuis Antwerp organises lectures on energy and ecology for adults. This year they decided to hold almost all of their activities in one weekend and to make them

attractive and fun for families: they decided to organise a party, which took place from 22-23 October.

#### Energy in the spotlight

On the first day children could have their bike repaired, engraved by the police to prevent it being stolen and even get it decorated! They could make music by riding "disco-bar bikes" that generate electricity.

For their parents, EcoHuis launched a new initiative: the joint purchase of roof insulation, with about one hundred homeowners looking together for high quality insulation contractors. Those who liked housekeeping could join an interactive demonstration on how to clean with ecological products. The EcoHuis doctor and the energy advisor were available all day too, of course.

#### Fun with food and gardening

On the second day the focus was on sustainable food and gardening. A visit to a communal garden in the neighborhood took place, edible plants were sold and people could get inspired about how to make a mini garden. On the rooftop visitors were offered a pancake that was baked with solar power. This stimulated people to walk all the way to the roof while passing through the whole permanent demonstration and they could then see the green roof of the building too. There were also workshops for young and old to learn how to cook with seasonal products and without meat, which were very popular.

#### Creative PR leads to many visitors

A lot of effort was made to promote this weekend party. EcoHuis announced it on their website and on Facebook. Posters, brochures and flyers were disseminated throughout all the districts of Antwerp. At



local events coupons for the different activities were handed out. More than twenty trams and buses carried a promotional banner. And the event got publicity in the free communal magazine and other local media.

Last but not least, during the event many attractive activities were located in front of the EcoHuis building. This tempted passers-by from the neighbourhood to pop in for eco-chips or a drink. They enjoyed sitting on the terrace of the eco-café: a simple way to let them get to know the EcoHuis.

The hard work paid off: over 1500 visitors of many nationalities came to have a look, many of them living in the neighbourhood.

Watch a video of the event at <http://vimeo.com/31903448>



## Inspiring events

15 January - 10 February 2012

#### 'Flying the Flag for Haydon' arts exhibition at Morden Hall livinggreen centre

Football club Wimbledon's mascot is a 'womble' named Haydon. Haydon is key in the 'Flying the Flag for Haydon' arts

exhibition in the Livinggreen Centre about the Wombles and recycling. Wombles are fictional pointy-nosed, furry creatures that live in burrows on Wimbledon Common, where they help the environment by collecting and recycling rubbish in useful and ingenious ways.

More info at <http://beta.nationaltrust.org.uk/morden-hall-park/>

24 February, 20 April & 22 June 2012

#### French-Belgium Cross border broadcasts on sustainable renovation jobs

"Sustainable Builders" (Batisseurs durable) is the title of a series of five broadcasts that highlight construction and renovation jobs with the aim of improving valuation of this sector.

The series started in November 2011 (with broadcasts on 15 November and 22 December).

Through testimonies of professionals, trainers and learners on both sides of the French-Belgian border, each of the broadcasts presents a family of jobs (carpenter, roofer, mason, iron craftsman, heating engineer, auditor energy, etc.) This broadcast is also visible on <http://www.renovationdurable.eu/Batisseurs-durables.html>

20, 21 & 22 March 2012

#### Don't miss Ecobuild!

Ecobuild, the world's biggest event for sustainable design, construction and the built environment takes place at the ExCeL exhibition and conference centre at the heart of the new Green Enterprise District in London's Docklands.

A free ticket gives you access to

- over 1,500 exhibitors – the biggest showcase of sustainable construction products anywhere
- free conference – hear from renowned commentators including Sir John Beddington, Angela Brady, Greg Dyke, Monty Don, Stephen Bayley and more
- more than 130 free seminars covering Sustainable by design to Installer connect and Olympics learning legacy to Better through BIM
- dozens of interactive attractions including Solar hub, Fabric first, Renewable heat focus

See [www.ecobuild.co.uk](http://www.ecobuild.co.uk)

24 & 25 March 2012

#### Fair "Energie, Umwelt & Handwerk" (Energy, Environment & Crafts)

The Ludwigsburg local newspaper, Ludwigsburger Kreiszeitung organises this regional fair, that takes place for the first time in the ARENA Ludwigsburg. Aim is to attract families. Themes are energy, environment, building and craftsmen, sustainable living, financing and funding. There will be lectures, workshops, special exhibitions and offers for children.

Info at <http://www.lkz.de/home/messen/messen-ludwigsburg-energie-umwelt-handwerk.html>

29 - 31 March 2012

#### International Trade Fair Clean Energy & Passivehouse 2012 (CEP®)

This international trade fair and conference for renewable energy and efficient buildings has grown over the last five years into the leading trade fair for renewable energies and passive houses in Baden-Württemberg and beyond. Thanks to its unique combination of topics spanning renewable energies and passive houses, the CEP® has become an industry meeting point with international appeal and is regarded as one of the most important energy trade fairs in Europe.

The fair takes place at the New Stuttgart Trade Fair Center See also <http://www.cep-expo.de/index.php?L=1&id=7>

5 June 2012

**World Environment Day 2012: “Green economy, Does it include you?”**

The United Nations Environment Programme (UNEP) chose this question to invite everyone to both assess where the Green Economy fits in their daily lives and evaluate whether development through a Green Economy caters for individual needs.

World Environment Day this year will help to raise awareness on the serious impacts of carrying on with business as usual. Through engaging governments in action and your spreading the word on the importance of a Green Economy, this collective effort will preserve nature, while achieving growth, and encourage sustainable development

More on [www.unep.org/wed](http://www.unep.org/wed)

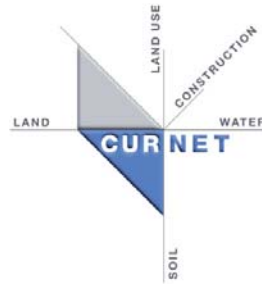
18 - 22 June 2012

**EU Sustainable Energy Week (EUSEW 2012)**

This is the reference event for sustainable energy issues in Europe and beyond.

Hundreds of events will be organised in all parts of Europe and Brussels to show, promote, discuss and celebrate renewable energy and energy efficiency.

More information on [www.eusew.eu](http://www.eusew.eu)



LUDWIGSBURG



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National Trust



Espace Environnement

