



The European Federation for Living (EFL) is a consortium of European organisations which are active in real estate development, financing and exploitation. Furthermore EFL works in cooperation with research institutes across Europe, public bodies and the business community. EFL aims at mutual realisation of sustainable residential and living surroundings in Europe and the exchange of knowhow and experiences gained in innovative housing projects.

Currently EFL consists of 14 members; united in a European Economic Interest Group (EEIG). Renewable Energy solutions and Energy Efficiency are the most important focusing points in which EFL members collaborate. Through mutual exchange of experiences a cross-border knowledge transfer is realised. This is implemented in all EFL projects executed by members.



Staedion is the largest housing association in the Dutch city of The Hague and one of the founding partners of EFL. Owning 32.000 dwellings, Staedion invests in social housing, owner-occupied property and commercial real estate. Sustainability, livability and development of local economy are integrated in all project developments. Furthermore Staedion invests in facilities concerning education, sports, public health care and well-being.

In the field of Renewable Energy solutions Staedion is one of the leaders among Dutch housing associations. Together with municipality and local partners a district in The Hague is equipped with a geothermal energy network. This is the first large geothermal energy application in The Netherlands. On behalf of EFL Staedion participates in REBECEE.

Design Workshop
Project "Landlust" Amsterdam
with ETZ Nürnberg



Conceptual Workshop
Staedion Project "Gooilaan"
by EFL Members



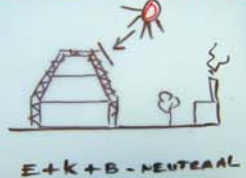
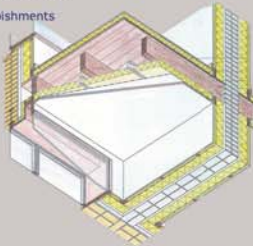
Project De Koningsvrouwen van Landlust

Amsterdam, The Netherlands

Renovation of 246 monumental apartments in Amsterdam. Executed by Housing Association "Eigen Haard" Municipal pilot project for Energy Efficient Refurbishments

Measures include:

- Box-in-box insulation $U = 0,14 \text{ W/m}^2\text{K}$
- Airtight building envelope
- High performance glazing and window frames
- Balanced ventilation with 90% heat recovery
- Low temperature heating and cooling
- Aquifer / heat pump heating/cooling
- Wood Pellets for hot tap water production
- Photovoltaics
- Four experimental energy concepts
- Monitoring of energy performance by ECN



Congress
"Future = Now x Sustainability"
The Hague



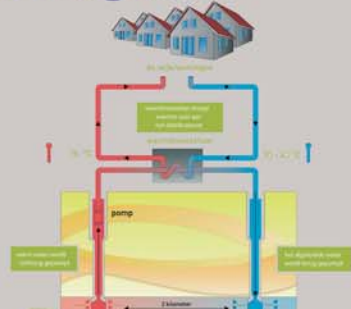
Project Geothermal Energy The Hague

The Hague, The Netherlands

Geothermal heating network in southwest The Hague Cooperation of Staedion with housing associations, energy companies and municipality in The Hague. Drilling of two sources and construction of a network for distribution of hot water.

- Sustainable heat supply for over 4000 dwellings
- Two sources 2200 m deep, water temperature 75°C
- Reduction of 5000 ton CO₂ emissions / year
- Total investment over € 50 million.

Status of National Demonstration Project awarded by Dutch government



Spin-off Project
"Dotterlei" Rotterdam
Energy Efficient refurbishment
of 49 appartments



Project Climate Construction

Den Hoorn / The Hague, The Netherlands

Energy Efficient construction system for housing Light and strong prefabricated elements based on Expanded Polystyrene (EPS) elements.

Developed by Van der Leij contractors bv

First application in project "Hoornsche Vaart": 14 Single family houses in Den Hoorn, NL. Energy performance aims at Passive House standard thanks to very high thermal resistance of the building envelope, optimised orientation and heat recovery ventilation system. Application of solar thermal collectors.



Renewable Energy Production
Princess Amalia Windpark
EFL Member ENECO exploits
120 MW windpark at North Sea



Faktor 10 Workshop
Project "Landlust"
with dr. Burkhard Schulze Darup



supported by



Coordinator



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ZEBAU is partner in the European Campaign to raise awareness and change the landscape of energy.

more about the projects and exhibitions:

www.rebecee.eu