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Dear Colleagues,

By this issue of the newsletter we are up-dating you with some results of our project ROSH. The main focus of ROSH during the last several months has been to demonstrate the advanced sustainable retrofitting concepts for social housing. The concepts have been developed by taking into account the specific conditions in each of the project countries. We believe that the demonstrations will help us to further optimize the retrofitting strategies.

Lulin Radulov
Director
Black Sea Regional Energy Centre

10 Demonstration Projects Identified by the ROSH Consortium

One of the main objectives of the ROSH project is the preparation and implementation of 10 demonstration projects in the partner regions to showcase advanced sustainable retrofitting concepts. It also includes the monitoring and evaluation of these demonstration projects.

All 10 projects have now been identified and are located as follows:

Address	Region	Country
Eulerstraße 11, 13, 15; Hannover	Lower Saxony	Germany
Beuthener Straße 2–10; Hannover	Lower Saxony	Germany
Gasen 26; Gasen	Styria	Austria
Kepelystraße 43–45; Leoben	Styria	Austria
Chodkiewicza Street 11; Gdansk	Pomerania	Poland
Sambora Street 6 A–C; Gdansk	Pomerania	Poland
Contratti di Quartiere 2, Quartiere Strada Volta; Asti	Piedmont	Italy
Via Adamello; Novara	Piedmont	Italy
Emmet Walk, Bridgefoot Street; Dublin 8	Dublin	Ireland
Bunratty Road, Coolock; Dublin 5	Dublin	Ireland

The implementation of the demonstration projects will be imperative to achieve the expected results and outcomes, which include:

- A 30% reduction in energy demand from previous/current status
- Contribution to implement the European Performance of Buildings Directive
- High level of replication and transferability
- Effective removal of market barriers
- Increase of social benefits
- Planning & legal barriers

The demonstration projects are planned in close co-operation with regional market players such as housing companies, local authorities and tenants associations. The partners will provide support and supervision through a series of meetings, site visits and presentations of good practice examples. Within the demonstration projects, the material and instruments compiled and developed in other work packages, such as the energy guidebook will be applied and improved. The demonstration projects will also lead to concrete market activities.

The demonstration projects are at different stages of implementation, for example, some are in the planning stage where planners/architects can be influenced by activities of the ROSH project and lead them to a sustainable approach for the retrofitting measures. Others are under construction or are occupied and therefore are suitable for the monitoring phase.

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Demonstration Projects



Beuthener Straße, Germany



Gasen, Austria



Sambora Street, Poland



Via Adamello, Italy



Bunratty Road, Ireland

The three main indicators or outputs for the monitoring phase of all the demonstration projects will be delivered energy kWh/m²/yr (average), CO₂/m²/yr (average) and energy costs per flat. Other indicators may include: air tightness testing, infra red photography, tenant questionnaire, comparison of projected savings and actual savings, temperature and humidity logging.

A publication of "10 Shining Examples: Sustainable and energy efficient retrofitting of social housing in Europe" will be produced towards the end of the project to highlight the consortiums' activities applied to the demonstration projects.

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Case Study: Bridgefoot Street, Dublin

Bridgefoot Street Flats were constructed in 1964 and refurbished in 2001. There are 32 flats in total and features of refurbishment include replacement of heating system, extensive upgrade of building fabric, including window replacement.



Bridgefoot Street – before and after refurbishment

Theoretical estimated energy and CO₂ savings were calculated as 91 and 95% respectively. These figures are based on the assumption that the flat was heated fully. In reality however, due to fuel poverty, usually only one room was heated using solid fuel such as coal or peat briquettes.

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Energy Show 2007 in Dublin



L to R: Emma Collins & Edel Giltenane

The Energy Show 2007 was held in Dublin, Ireland on the 25th and 26th April. This show is the largest and most successful national exhibition in Ireland. The 2 day event was officially opened by Mr Noel Dempsey, T.D., Minister for Communications, Marine and Natural Resources, pictured here with the Codema staff. The show was once again a big success with over 2,000 visitors.

The Energy Show 2007 saw 130 Irish and international manufacturers and suppliers of sustainable technologies exhibiting in the industries hall of the RDS, Dublin with a number of seminars organised in parallel with the exhibition covering the topics such as effective energy management, energy pricing & trends and energy saving opportunities. The event was attended by suppliers, customers, such as local authorities, and consultants in the field of energy. CODEMA has exhibited at the Energy Show for a number of years and the show presented us with the opportunity to further promote the ROSH project.

L to R: Declan McCormac, Edel Giltenane, Emma Collins, Noel Dempsey, Minister for Communications, Marine and Natural Resources, Sabine Kranzl, Paula Hempentstall, Gerry Wardell, David Taylor, CEO, Sustainable Energy Ireland, Joe Hayden (Photo courtesy of Codema)



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Bulgarian Experience with Thermography Analysis



Assoc. Prof. N. Kaloyanov

On 29th of March 2007 a workshop "Bulgarian experience in application of thermography infrared techniques into the energy efficiency audits" was held in the Technical University of Sofia. The seminar was organized for experts and authorized companies for building certification and 60 participants attended it. A detailed presentation was made by the vice rector Assoc. Prof. Nikola Kaloyanov – expert on projects that involve building energy modelling and simulation, energy auditing, building energy performance evaluation and currently a ROSH project expert. The workshop aimed to highlight the importance of applying infrared thermography in order to detect easily building abnormalities that result into energy losses. As an essential professional tool in energy auditing of buildings in Bulgaria the infrared camera contributes to a great deal for the efficient planning, supervision and documentation of the execution with regard to air tightness and thermal insulation of buildings.

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ROSH Partner Consortium

ROSH is a EU-project implemented by the following consortium:

- Agenzia Territoriale per la Casa della Provincia di Novara – **Italy**
- Agenzia Territoriale per la Casa della Provincia di Asti – **Italy**
- Ambiente Italia – **Italy**
- AEE – Institut für Nachhaltige Technologien – **Austria**
- Architektenkammer Niedersachsen – **Germany**
- Baltycka Agencja Poszanowania Energii SA – **Poland**
- Black Sea Regional Energy Centre – **Bulgaria**
- City of Dublin Energy Management Agency – **Ireland**
- Federcasa – Federazione Italiana per la casa – **Italy**
- Grazer Energieagentur – **Austria**
- Institut für Bauforschung e. V. – **Germany**
- target GmbH – **Germany** (*project co-ordination*)

You will find contacts in detail at:
www.rosh-project.eu

Photographs, Graphs:
AEE, ATC Novara, BAPE, BSREC,
Codema, target

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Calendar of Events

ROSH – next events

 **10 to 13 October 2007, Weiz**

2nd International Conference with Technical Exhibition Ökosan'07

Within the international meeting focused on high-quality rehabilitation of large volume buildings topics concerning the building stock will be covered, problems solving approaches will be analysed and discussed by representatives from policy, economy and research & development. DI Ernst Blümel and DI Rene Hummer from AEE INTEC will present the ROSH project within the topic "The modernization initiative in East Styria".

 **16 to 17 November 2007, Hannover**

National building congress and fair for energy saving

Gerhard Lang from the Grazer Energy Agency will present the ROSH project, a good practice example from Graz, Austria and its special contracting concept. The two days long congress will focus on the legal framework of energy efficiency in buildings, campaigns, quality assurance, contracting, economical aspects and modernisation with passive-house components. More information (in German language): <http://www.e-u-z.de/bft.html>.

 **22 to 23 November 2007, Vienna**

New Strategies for the Property Management of Residential Buildings

Experts from Central and Eastern European Countries (CEE) will discuss about current trends of the property management of residential buildings in the context of energy and climate policy. This symposium is addressing co-operative housing associations as well as property managers. For further information (in German language) see: <http://www.wohnmodern.at>.

 **7 December 2007, Hannover**

Forum Energy and Building

A forum with estimated 120 Architects, engineers and energy auditors will take place in Hannover, organised by the Chamber of Architect in Lower Saxony. This forum will present the ROSH project in general and will focus on existing subsidy schemes for energy efficient refurbishment for multi-family-buildings, costs, contracting models, amortization as well as the influence of energy efficient refurbishment on the actual market value of buildings.
<http://www.aknds.de>, in German language

ROSH – last events

 **13 August 2007, Gdansk**

Seminar on energy saving in new and old housing

On August 13th, 2007 a seminar entitled "Energy savings in new and old housing" was held in Gdansk. It was organized by Infrastructure Department of Pomeranian Province Marshal Office and it was addressed at the representatives of local self-government. The topics of the first part of the seminar covered thermal renovation of housing stock presented against the directives of EU and the Polish law, building certification system and financing mechanisms supporting these measures. The issues were presented by the representative of BAPE – Katarzyna Grecka under ROSH project. The second part of the seminar focused on passive buildings.