

MILD HOME

**My Modular, Intelligent, Low cost,
Do it yourself, Nearly zero energy House
for our Eco Green Village**

*High-energy efficient and low cost buildings to be designed and realized in
Eco Green Villages. A new perspective of sustainable building*

April 2014 | NEWSLETTER

- 
- 1. The Project so far...**
 - 2. National Competitions of Ideas**
 - 2.1. Italy
 - 2.2. Romania
 - 2.3. Austria
 - 2.4. Bulgaria
 - 2.5. Hungary
 - 2.6. Greece
 - 2.7. Serbia
 - 3. What is next?**

The Project So far...



MILD HOME International Project Meeting in Győr, Hungary

The 5th Transnational Project Meeting of MILD HOME was held in Győr between 4th and 7th of March 2014. The main place of the events was the Architects Atelier of the Széchenyi István University.

The first module of the event included the opening ceremony of the “MILD HOME and Eco Green Village Competition” exhibition during which the results of the eight architectural competitions were presented. The different national competitions were organized by the respective project partners from the South East European region. The entries gave complex concepts for the sustainable urban development of different areas.

The second module of the event included presentations of the awarded project proposals and provided the grounds for discussions on the competition results within the framework of

the specific national conditions. Additionally, the project progress was presented and discussed between the project partners.

On the last part of the meeting the participants visited some scenes, which are considered good examples of sustainable development. One of these scenes is the building complex of the university where the new buildings and the renovated existing buildings enable the efficient use of resources. Another good example is the area of the Benedictine Archabbey in Pannonhalma, where excellent efforts can be observed aiming the energetically and financially autonomous operation.

Want to get the full experience of the meeting? Please, visit the **MILD HOME WEEK movie**, kindly published in youtube.com by the Hungarian partners from SZE University. Click [here](#) to view the movie.

National Competitions of Ideas



MILD HOME Project aims at the creation of informal standards in architecture which have the potential to overcome the problems deriving from the discrepancies between the national legislation which hamper the full utilization of the ecological and sustainable construction and urban planning.

The assignment requires the collective work of various types of professionals varying from urban planners, architects, civil engineers and engi-

neers in heating ventilation and air-conditioning to landscape engineering. The project approach includes holistic and integrated planning with social and environmental aspects of modern construction and compliance taken into account and incorporated with the criteria for energy efficiency and use of renewable energy sources (RES).

The specific goals of the national competitions of ideas are twofold. On the one hand, the competitions

National Competitions of Ideas

aim to provide the best ideas concerning the potential realisation of residential prototypes for buildings within the framework of an eco- green village (EGV). On the other hand, it aims to specify architectural solutions that reflect the concept of MILD HOME while at the same time they incorporate the results of the project progress so far with special attention paid to the specifications of the geographical location concerned.

The following sections are specifically dedicated to the national Competition of Ideas.

ITALY

The MILD HOME and Eco Green Village competition for the Boscariz area in Feltre (Belluno, Italy) opened on 16 December 2013 and closed on 21 February 2014.

The main goal of this specific competition was to provide a design proposal for urbanising a sub-urban area in the north of the historic center of Feltre through an Eco Green Village based on MILD HOME prototype. Indeed, the MILD HOME project aims to develop an innovative residential building which should combine smart measures (energy efficiency and basic home automation) with low costs, thanks to modularity and a Do-It-Yourself approach.

For these reasons, Association of Chambers of Commerce of Veneto Region (UCV) thanks to the enthusiastic cooperation of the Municipality of Feltre opened the call to Italian and foreign experts, mostly architects, engineers, designers and their collaborators (students and licensed professionals).

Thanks to press releases in local newspapers and notices of the competition on Feltre Municipality and UCV official websites, the total number of proposals received was 6.

On 26 February 2014 the Jury Committee chose the first 3 classified projects, whose main features are the following ones:

The first project is an EGVillage conceived by De Biasio & Associates Studio as an holistic intervention of urban regeneration. It is characterized by an oblique axis, which “cuts” the area only at a first sight because it actually provides a connection between the church and the school, located on the opposite sides of the area.



The MILD HOME prototype has a design which directly refers to the traditional buildings of rural mountain areas, well equipped with most innovative devices for energy efficiency.

The second project, by arch. Michele Domeneghetti Group, includes the large existing social housing



National Competitions of Ideas

building within the central path. The aim is to take the opportunity of the competition for providing the area a new specific identity. This EGVillage is interesting also for the presence of a rainwater collecting tank, for the irrigation of gardens and other services. The prototype of the MILD HOME is innovative thanks to many different solutions, from the design of the roof (studied for optimizing the performance of PV / solar thermal panels on it), to the smart construction method (the massive masonry, which is typical of North-East Italy, is here re-considered made by wooden brick formworks).

The third project stands out for the concept at the basis: a non-impact (or very low and absolutely sustainable impact) approach. The EGVillage is imagined as a natural area, where MILD HOMES are scattered in the green, except for a central square which serves as a connection to the other city districts. Arch. Anna Lovisetto, author of the project,



provided a very original project of MILD HOME made by wood and straw. These materials and a simple but smart design of the house permits to reach the highest possible level of Do-It-Yourself results combined with modularity and good energy saving. The outcome is a considerable reduction in costs, which is one the main focus of the MILD HOME project.

ROMANIA

The national competition of ideas in Romania was organized by the Caras-Severin County Council and took place between November 20, 2013 and February 24, 2014. Students from Ion Mincu - Architecture and Urbanism University, Bucharest and Polytechnic University, Timisoara were invited to participate.

The competition aimed at selecting the best design of an Eco Green Village consisting of 100 living units, the MILD Home type, which should be not only an innovative construction model, but rather a new philosophy, the expression of a new way of life, indicating the relation between human beings, their home and the environment.

The competition of ideas attracted substantial amount of attention exemplified by the receipt of 16 project proposals.

The evaluation criteria took into account the quality of the concept in relation with subject requirements and options; compliance with the proposed surface indices and regulated, the quality of spatial relations (public / private space), intelligent use of materials, brief and clear rationale of the proposed solution; graphical presentation and accuracy of expression.

The 1st place was awarded to two teams, respectively one from Timisoara and one from Bucharest. The Timisoara Group was formed of Nistor Dragoș



National Competitions of Ideas




and Vingan Răzvan, while the Bucharest Group was formed of Andone Radu, Creangă Cosmina-Iuliana, Orzea Carmen and Raetchi Sonia-Iulia.

AUSTRIA

For the competition of ideas of the MILD HOME and Eco Green Village in Austria it was decided by the partners EEE and BBI to proceed with a closed competition mode within the Building Biology Network of the Institute in Austria. This decision was based on the fact that an enormous experience exists within this Institute on this topic and such an experience is not readily available on the market.

EGVillage Model - Strem



Development of the village:


- 2) Connection on higher level structures

Structures of nature

- orientation on 1st global grid (large space)
- orientation on geomancy zones

Structures of culture

- connection to the center of the old village
- connection to the district capital Güssing



EGVillage Model - Strem



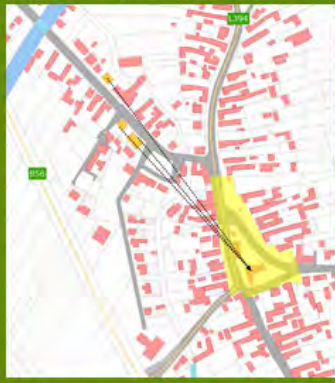
Development of the village:

- 3) Zones of the village

1. untouched nature landscape
2. landscape park
3. trade and crafts
4. public interior zone
5. houses and courtyards
6. private indoor garden
7. public exterior zone (holy area)



EGVillage Model - Strem

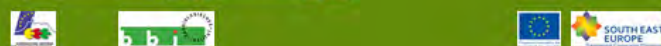


Development of the village:

- 1) Revival of the center of the old village

Most important institutions of public interest should be located at the center of the old village

- village official/major house
- police department
- grocery, etc.



EGVillage Model - Strem



Development of the village:

- 3) Zones of the village

1. untouched nature landscape
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National Competitions of Ideas



BBI has already developed models for MILD HOME type houses and the EEE has stand-alone expertise in the field of renewable energy supply for communities. Competition Call was the Building Biology Certificate Scheme. Based on the mode and procedure of the development of the MILD HOME as well as the Eco Green Village one solution with various detail solutions was the expected outcome.

The project has been evaluated with a group of planners and architects out of the Building Biology Network. Precondition was that all of these parties are educated in the field of Building Biology and holistic ecological planning approach. EEE and BBI then continued with an appropriate full planning team to design the MH and EGV. This team consists of two experienced Architects with urban planning qualification, a Building Biology-Building Physics Architect, a Building Technology and Technical Systems Engineer, a holistic Geomancy Expert and the Building Biology Institute President. This is accompanied by a Technical Engineer from the EEE Güssing.

The location for the competition was the village Strem in the South of Burgenland. The site for the design of the MILD HOME is in the village and the Eco Green Village will be designed to be developed in the whole municipality.

The outcome of the procedure of developing the MILD HOME and Eco Green Village within the mentioned team for Strem was that two principal construction types will be used in the Eco Green Village and those are on the one hand massive brick constructions with ecological insulation (hemp, soft wood fiber, etc.) and on the other hand Massive wood construction with ecological insulation. Furthermore several architectural House System styles and types will be used.

For the Eco Green Village one focus area was the integration of the revival of the center of the old

village. So the most important institutions of public interest should be located at the center of the old village. Furthermore the connection to higher level structures as well as to structures of culture was considered as a very important aspect.

The zones of the village were developed on the basis of a holistic geomantic approach and may be understood in following sections:

1. untouched nature landscape
2. landscape park
3. trade and crafts
4. public interior zone
5. houses and courtyards
6. private indoor garden
7. public exterior zone (holy area)

This concept then defines the actual architectural designs and settings.

BULGARIA

The competition of ideas in Bulgaria was announced at the beginning of January and was closed for applications on February 21st, 2014. Despite the relatively short time available for submissions of project proposals, the competition attracted high interest, both on behalf of the interested in participating parties and on behalf of the media. The objectives of the project are directed towards achievement of high degree of sustainability both in terms of architectural solutions and in terms of selection of the most environmental friendly construction materials supplied locally. The competition of ideas was closed on February 21st, 2014 with 8 applications successfully submitted.

The composition of the jury was purposely diversified in order to ensure that all points of views of the relevant stakeholders were taken into account. The jury was chaired by Prof. Arch. Alexander Alexandrov, head of the Urban Planning Department at the University of Architecture, Civil Engineering and Geodesy.

National Competitions of Ideas

The jury was composed of 12 representatives coming from different spheres: experts from the Bulgarian Chamber of Architects, representatives from Sofia Municipality, representatives from the non-governmental sector engaged in promotion of energy efficiency and sustainable development and the media.

The competition provided opportunities for various interested groups to participate, for instance architects, architecture students, designers and other kinds of specialists. With the closure of the competition of ideas in Bulgaria, total of 8 proposals were successfully submitted. The overall conclusion of the jury was that in general the participated entities are familiar with the concept of an eco-green village (EGV) and with the respective requirements imposed by the concept of sustainable architecture.

The results of the competition indicate high interest in the subject which appear as guarantee for its viability and further continuation of the discussions on the topic.

The jury awarded 4 proposals, whereas the 3rd place was divided between two different contestants. Respectively, the 1st place was granted to the "Green Art" team due to the innovative aspect for inclusion

of an open space completely in compliance with the specific climate conditions of Bulgaria. Another aspect of the proposal is the technical feasibility of the architectural solution provided marked by its flexibility for construction through partial or holistic approach.

The 2nd place was won by "Green Team" due to its specific provisions on the location of the Eco Green Village marked by its southern exposure which contribute to the achievement of the main elements



of the 'passive houses' concept. Important and innovative aspect of the proposal is the overall usage of ecological materials and the inclusion of the community in all stages of the construction of a MILD HOME.

The third place was divided between two different teams. The team of "Studio H65" and the proposal of Arch. Nikolay Slavov were awarded both the third place by the jury.

The innovative aspect of the proposal of "Studio H65" lies with the achievement of the indicators for energy efficiency through reliance on natural vegetation (e.g. different kinds of trees in accordance to the specificities to the geograph-

National Competitions of Ideas

a single- building aimed exclusively for public use located in the middle of the Eco Green Village, thus enabling eco-effective transport communication throughout the village with additionally integrated provisions for communal agricultural activity.

HUNGARY

The Hungarian MILD HOME and Eco Green Village Competition closed successfully on the 13th of January with great interest. Altogether 28 project proposals were successfully submitted to the call organised by Széchenyi István University (the Hungarian Project Partner of MILD HOME) and the Municipality of Tatabánya, the location of the competition's site. The call for ideas was open for all Hungarian post-graduate architecture institutions in the field of both research and design. The members of all the teams came from four doctoral schools: Doctoral School of the Technical University of Budapest, Doctoral School of the Moholy-Nagy University, Doctoral School of the University of Sopron and two design oriented post-graduate architecture institutions called Mesteriskola and Vándoriskola.

The jury evaluated the applications and selected the award winners from the 15th to the 18th of January in the Architect's Atelier (the venue chosen for the MILD HOME WEEK) in Győr. The jury's decision included the three projected awards (1st, 2nd and 3rd prize) and five honourable mentions.

The award ceremony was organised jointly with the opening of the first MILD HOME exhibition on the 6th of February in the new Community and Culture Centre of Tatabánya.



ical location). Another moment of the proposal is the achievement of nearly zero greenhouse emissions.

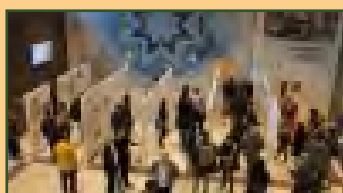
The proposal of Arch. Nicolay Slavov attracted the attention of the jury with the provision of



National Competitions of Ideas



During the exhibition all entries were presented with their submitted posters and models as well. The exhibition was opened by Csaba Schmidt, Mayor of Tatabánya and the prizes and honourable mentions were presented by Tamás Czigány, head of the Department of Architectural Design at Széchenyi István University.



The exhibition stayed open until the 17th of February in Tatabánya. The opening event was followed by professional discussions about sustainability and housing throughout the country in all of the participating institutions during the following months.

GREECE

The Region of Thessaly announced a contest for the students of the Faculty of Architecture of the regional University of Thessaly on 19.02.2014 entitled "Eco-Green Village based

on the MILD HOME". Scope of the contest was to design an Eco-Green Village based on the MILD HOME in the area Mezourlo of the city of Larissa, i.e. a settlement of houses combining extended technological abilities, small energy consumption, almost zero energy emissions and low operation costs. This settlement will refer to citizens who wish to live with high life quality levels, a trend increasing on a global scale, with a direction from north to south – as in Europe.

The contest ended on 16.05.2014, which was also its evaluation day. The evaluation took place from a 5-member committee consisting of 1 representative of the Region of Thessaly, 2 representatives of the Technical Chamber of Larissa and 2 representatives of the University of Thessaly.

The evaluation was based on 5 important parameters: a) adopting the contest's specifications, b) sound consideration of design framework, c) high architectural quality, d) taking into consideration real economic facts, e) exploitation of renewable energy sources.

The 3 best proposals of the contest will be awarded with the MILD HOME 1st, 2nd and 3rd prize. The awarding will take place by the middle of June from the Regional Governor of Thessaly.

The proposal of the 1st prize will be further exploited to develop a full proposal by a regional technical firm to the Municipality of Larissa for the construction of the 1st Eco-Green Village in the area.

SERBIA

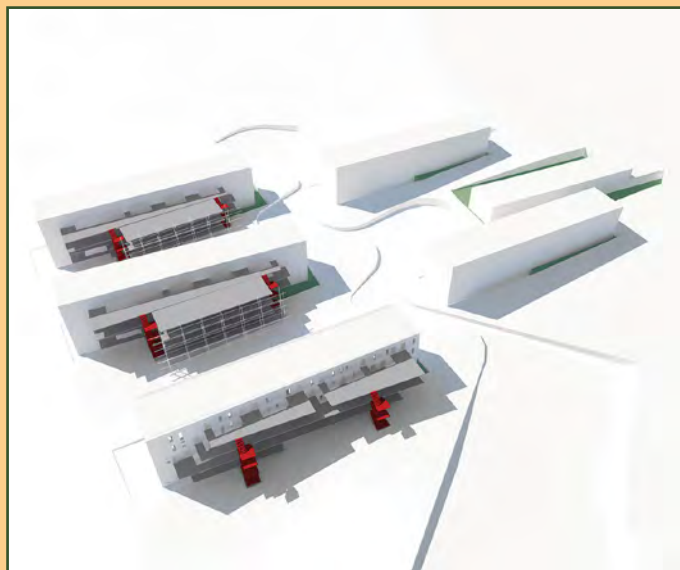
Over the course of February, the first national architectural competition as part of the MILD HOME project has been completed,, implemented in Serbia by the municipality of Savski venac in Belgrade.

National Competitions of Ideas

The theme of the open call, which has been implemented in all of the countries taking part in the project, is to find specific architectural solutions for MILD homes – housing units which are sustainable in both construction and exploitation, as well as the Eco green settlement which is planned for development within the municipality of Savski venac, and will be based on MILD home buildings. What is special in the approach of this project is that we are looking for solutions that are at the same time guaranteeing almost zero energy consumption, as well as the low price of construction.

The aim of the competition was to define, project and incite the development of the first MILD homes – passive homes with zero emission, reliable, renewable and low-budget. The goal is also to show that it is possible to develop ecological and low-cost settlements in SEE, ones that can be affordable to any social group. The project will look into the best ideas selected at national competitions, and enable further planning by securing a solid base for the future development of a prototype of a house.

Three equal awards were given with a total budget of 600.000 RSD, while three more teams have received notable mentions from the jury, out of the total of 21 works, which were submitted. The main prizes went to the team of the Ko gradi grad initiative, which proposed a concept with an interesting name “Nova moba za ovo doba”, followed by Pavle Stamenović and Dušan Stojanović, as well as Dalia Dukanac and Ivana Jelić. An exhibition of all submitted and awarded works was presented between March 24 – 31 at the Mikser House venue in downtown Belgrade, while the works could still be seen in the ceremonial Hall of the Business Center 47 of



National Competitions of Ideas



the City municipality of Savski Venac (47, Kneza Miloša Street).

After the competition, the awarded architects will receive further specialized education,

and prepare for the work on the feasibility study, which will provide a more precise insight into the rationality and pricing of this concept, compared to a standard approach to construction.

What is next?



Part of the project is to ensure that all of the activities related to the identification and definition of the most suitable materials, components and building methodologies are developed with regard to the previously identified needs of the local population. In order to further extend the reach of the project, comprehensive trainings targeting the different stakeholders are about to be held by each partner.

The underlying idea is to have targeted trainings for technical assistants and market facilitators which will enable the exchange of know how among the interested local stakeholders and to further promote the project objectives and outcomes to the wider public.

Furthermore, the training programmees will be designed in a three- fold way in order to incorporate three intersecting and highly important concepts:

- on the one hand, the training will aim to trigger discussion on the technological implications and the levels of innovation achieved during the project life spam
- second, it is of utmost importance to include as much as possible the participating technical staff (the architects) during the realization of the training programme, thus enabling the exchange of expertise on project level

- another target group, crucial for the successful implementation of the project is the real-estate sector since it is the most potentially open for innovation aimed at fulfillment of different markets niches, such as the construction of Eco Green Villages;

- Also, study visits of exemplary realizations are planned to be carried.

The overall aim of the trainings aim is to trigger a vivid discussion on the financial, legal, environmental obstacles before an EGV.

WHAT IS NEXT?

6th International Project Meeting in Bucharest

The next project meeting which will gather the project partners is about to be held in Bucharest at the beginning of July, 2014. The meeting will contribute to better understanding of the project outcomes and will provide basis for uniform actions aimed at smooth implementation of the remaining tasks, part of the project.

For more information, please, consult the MILD HOME project website.

www.mildhome.eu