



fields of intervention (1) municipal buildings and (2) energy consumption on municipal level

- R3-To have reliable base studies for short and midterm planning on energy efficiency matters
- R4-To train practically target groups on energy efficiency matters and to sensibilise wider audience
- R5-To communicate with wider local audience, to disseminate and capitalize joint action's knowledge base, process and results. To concretize partnership and strengthen project's sustainability
- R6-To achieve sound project management with quality financial monitoring. To transfer knowledge for EU projects management to non-EU partners

“BSBEEP Pool” and “BSBEEP Agora” might be considered essential in terms of sustainability of the project. **BSBEEP Pool** is a completed pool of experts on energy efficiency, meaning a data base containing active bodies and experts that are involved in energy efficiency matters. It will enhance the communication of the outcomes of the BSBEEP. Creating a working procedure with active bodies and establishing the communication methods with them. **BSBEEP AGORA** is the various meetings with BSBEEP members in order to discuss building materials and systems that are considered to be the most appropriate for increasing building energy efficiency in specific climatic conditions of each partner's country and region particularly.

## IMPLEMENTATION OF BSBEEP PROJECT GROUP ACTIVITIES

### *Group of activity 1: Analysis of current external situation*

Democritus University (DUTH, GR), has prepared specifications for all five GA1 sub studies, which is related to analysis of current external situation. Those specifications were discussed with and developed for all partners. An analytical timetable and a template including specific instructions and timeframe were elaborated by DUTH and were distributed to all partners. All studies will have a tripartite structure where an introductory chapter, introduce to the specific issue of each study, a main group of chapters according to specific demands of each study and a final comparative chapter where all collected information and data will be scrutinised to discover common issues or even contradictory approaches. Additionally a screening evaluation and collection of literature in terms of legislations concerning energy efficiency in buildings has been conducted.

### *Group of activity 2: Analysis of Current Internal Situation*

Democritus University of Thrace-GR, has already developed and distributed a structured questionnaire aiming to obtain a comparative analytical profile in terms of energy, environmental

and spatial characteristics for each municipality. All partners have filled in aforementioned questionnaire.

Municipality of Kavala-GR, has started internal consultation about the most appropriate buildings to apply energy audits. Municipality of Galati-RO, as also Municipality of Cahul - MD, prepared ToR for external expertise related to all GA2 objectives. University “DUNĂREA” Galați-RO is ready to start the execution of this action. American University of Armenia-AR, has set the evaluation targets that will be selected and cases where energy audit will be implemented for assessment of energy consumption. Municipality of Mykolayiv-UA, declared that collection of statistical data, as also the formation of a list of potential facilities where energy audits will apply, are under way. Municipality of Samsun-TR and Municipality of Tekirdağ-TR, are preparing the same list of potential facilities where energy audits will apply while they preparing partners for next group of activities for planning procedures providing valid data and produce sound analysis.

Democritus University of Thrace-GR, is performing a screening collection of international methodologies regarding energy consumption assessment tools. Municipality of Galati-RO, is identifying the existing similar tools used in Romania, while is ready to organize meeting with specific software developers. All remaining partners have screening methodology and contribute to e-tool specifications. Municipality of Samsun-TR and Municipality of Tekirdağ-TR, started to identify a group of buildings appropriate for energy upgrading interventions.

### *Group of activity 3: Integrated planning process and approaches*

In accordance with the time plan all four activities from GA3.1 to GA 3.4, have not been activated.

### *Group of activity 4: Visibility of the Action*

The Questionnaire developed by Municipality of Kavala-GR was completed by all Partners and provided all required information for the elaboration of a Final Communication Plan. A draft version of a common communication plan has been sent to partners for consultation. Despite the fact that the Communication Plan has not been finalized, communication activities did take place. The majority of partners had initial contacts with a number of appropriate target groups and stakeholders.

### *Group of activity 5: Management and coordination of the action*

All partners have set up their project implementation team, organised internal meetings and prepared tender documentation or even launched procurement procedures. Many of them have already signed relevant contracts.

Visit us on [www.bsbeep.com](http://www.bsbeep.com) for more detailed information on BSBEEP Project.

## ACTIVITIES OF BSBEEP PROJECT PARTNERS

### BSBEEP Project Kick-off Meeting in Samsun

The First International Steering Committee Meeting of BSBEEP Project has been realized in Samsun by participation of the representatives of all relevant institutions and organizations on 5th and 6th of August, 2013.

Agenda of Kick off Meeting was included the detailed description of project activities, responsibilities of the project partners, expected results, work plan and time-planning, communication and visibility rules, as well as financial and administrative. Partner region, organizations, services and expectations from the BSBEEP Project have been presented by all partners attending to the Kick off Meeting Samsun. The All project activities have been reviewed and discussed, time-planning has been updated and reporting requirements has been clarified during the First Steering Committee Meeting in Samsun.

The kick of meeting of BSBEEP Project is honored with the participation of Mr. Simitsis Konstantinos, Mayor of Kavala and Mr. Yusuf Ziya Yılmaz, Mayor of Samsun Metropolitan Municipality.



Mr. Simitsis Konstantinos, Mayor of Kavala and Mr. Yusuf Ziya Yılmaz, Mayor of Samsun Metropolitan Municipality and Mrs. Leyla Üstel Çağatay, Kavala and Samsun Volunteer and Business Woman

Press-conference for BSBEEP Project Kick-off Meeting was organized in Samsun to raise interest and provide the necessary information for the public at large, also with the aim of attracting participants in the project.

### The Technical Cooperation Protocol by Metropolitan Municipality of Samsun

The goodwill and technical cooperation protocol has been signed among Samsun Metropolitan Municipality and Samsun

Branch of Mechanical Engineer Association in order to mutually share current experiences on energy efficiency in buildings and to improve the content and quality of the project activities, which will be implemented in accordance with project schedule.

This goodwill and cooperation protocol might be described as the first protocol signed with the NGOs among the project partner countries in the framework of the BSBEEP project.

### Municipality of Kavala: Official approval of Municipality of Kavala SEAP.

At the end of November 2013, the Joint Research Centre of the European Commission confirmed that Kavala's Sustainable energy Action Plan (SEAP) has successfully passed the full analysis. (See: [http://www.covenantofmayors.eu/about/signatories\\_en.html?city\\_id=2557&seap](http://www.covenantofmayors.eu/about/signatories_en.html?city_id=2557&seap)).

### Preparation activities for the first local BSBEEP stakeholders meeting by Municipality of Kavala

During middle of November a meeting among administrative staff of Municipality of Kavala and experts took place at town hall, in order to set the objectives for the first BSBEEP stakeholders meeting, clarify preparation activities and assign tasks to various actors involved. Next meeting has been planned for mid-January 2014.

### Democritus University of Thrace: Energy retrofitting at students dormitories at Komotini university campus.

DUTH is participating to "ELIH-MED" project, financed from MED Programme, focusing to improve energy efficiency and promote energy saving in low income housing (LIH) in MED area. DUTH will be benefited by retrofitting 630 flats in 5 student buildings. Technical works: External Insulation on walls and pilotis, heating control devices, Solar Thermal System connected to the existing grid infrastructure, Replacement of rooms' incandescent lamps with CFL (see: <http://www.energypress.gr/news/oikonomia-energias/Energeiakh-anabathmish-twn-foithtikwn-estiwn-sthn-Komothnh>)



Students' dormitories at DUTH campus at Komotini, Greece

### LEMIE Laboratory Democritus University of Thrace

The Laboratory of Environmental Management & Industrial Ecology (LEMIE), is fully participating to BSBEEP project, as his director Ass. Prof. Gaidajis George, is the main contributor and responsible partner of Group of Activities 1 (GA1) regarding knowledge and information collection and dissemination. Additionally, LEMIE is actively involved in GA2 and more specifically in the assessment of energy consumption and other environmental data of the municipality of Kavala, whereas it investigates and develops an innovative energy consumption assessment e-tool for buildings based on recent data and methodologies. The Laboratory participates in all BSBEEP Group of activities offering its expertise and knowledge in relative issues.



LEMIE is in parallel producing scientific work through publications in scientific journals, through its participation in international conferences and in other funded research projects. More details on LEMIE profile and research activities can be found on its website: <http://www.lemie.gr/en/>

### Local Action Group - Galati BSBEEP POOL by Municipality of Galati

On the 3rd of October 2013 a work meeting was held, organized by the Municipality of Galati together with the „Lower Danube” University, during which the Local Action Group - BSBEEP POOL - was constituted at local level.

Galati Local Action Group is formed by representatives of the private and public sector which will be involved in the implementation of the project activities that are needed in achieving the undertaken objectives.

At this first meeting, was presented the project Black Sea Buildings Energy Efficiency Plan (BSBEEP): objectives, partners, target groups, final beneficiaries, results and categories of stakeholders and their involvement methodology. The next meeting of Galati BSBEEP POOL is scheduled to take place in February 2014.

**ABOUT BLACK SEA CBC** For more information about the Joint Operational Programme “Black Sea Basin 2007-2013” please visit:  
[www.blacksea-cbc.net](http://www.blacksea-cbc.net)



Mr. Costel Hanta, BSBEEP Project Coordinator from Galati Municipality and Mr. Viorel Popa, Project Coordinator from Galati “Dunarea de Jos” University



Representatives of Galati BSBEEP POOL

**Municipality of Galati: Presentation of BSBEEP project within the 4th International Symposium on Electrical and Electronics Engineering (ISEEE).** The 4th International Symposium on Electrical and Electronics Engineering (ISEEE) was held in 11 - 13 October 2013 at “Dunarea de Jos” University of Galati, Romania.

The Symposium is traditional meeting of researchers, managers, professionals, master and PhD students in order to exchange the experience and opinions with other experts from all over the world.

The symposium was intended to be an international forum where an effective exchange of knowledge and experience amongst researchers active in various theoretical and applied areas of electrical and electronics engineering, power electronics and telecommunications can take place. The symposium provided presentations on the latest trends, in-depth knowledge about achieving the highest level of technology in the field. The event also provided a variety

of workshops, discussions and exhibitions to fully immerse the attendees in the Symposium pleasant atmosphere.

Topics within the scope of the symposium included: Power Electronics and Electrical Drives; Signal Processing Theory and Algorithms; Power Systems; Electronic Circuits and Systems; Hybrid Systems; Image, Speech and Audio Signal Processing; Renewable Energy; Communications; Instrumentation and Measurements; Control Engineering; Electromagnetic Compatibility; Embedded Systems; Electrical Circuits and Systems; Computational Intelligence; Modeling and Simulation; Autonomous and Intelligent Systems; Pattern Recognition; Information Processing and Engineering; Concurrent and Reverse Engineering; Engineering Education; Electrical Machines and Transformers; Software Engineering and Tools.



*BSBEEP presentation of Galati Municipality*



*BSBEEP project within the international event*

**International scientific and technical conferences on “Municipal Energy: Problems and Solutions” by Municipality of Mykolayiv:**

The Centre of applied researches in power engineering (hereinafter Center) of the National University of

Shipbuilding called admiral Makarov (Partner of Nikolayev for BSBEEP) organized and ran international scientific-and-technical conferences “Municipal energy: problems, solutions”. The conference was presented 65 reports with the participation of 30 institutions and organizations. With the participation of representatives of foreign countries provided 13 reports, including: Russian - 5, Belarus - 3, PRC-1, Poland - 2, Germany -1, Libya - 1, respectively. The conference heard 49 reports, published conference proceedings.

Centre of applied researches in power engineering was established by order of the chancellor in 1998 for resolving some theoretical and applied problems of regional energy development and municipal water supply systems.



In 1999 the Center and its staff were certified to audit the state-financed and industrial enterprises on energy and project-management on system P2M (2008). The Center includes two specialized laboratories.

The research manager and founder of the Center is member of the Engineering academy and Ukrainian academy of Energy, member of expert committee of the Ministry of regional construction and housing of Ukraine.

The staff of the Center are experienced enough to undertake the activities. They can also ensure the implementation of the contracts related to the municipal energy supply system enhancement (i.e. energy audit, development of regional energy-saving programs and energy-supply system optimization, ecological inspection, development of technical-and-economic feasibility of the projects and reforming the programs of energy objects, development of electronic energy supply schemes, etc.) and municipal water supply systems. The staff members of the Center undergo training courses in accordance with their individual planning, both locally and abroad.



The Center is a regional industry-leader on competence and quality. Since its establishment the Center has done over 50 scientific researches on the municipal energy supply system and municipal water supply systems enhancement, ordered by the executive authorities and industrial enterprises of Ukraine.

The staff members have taken part in 5 international contracts and contract with IFC (a member of the World Bank Group).

**The Workshop Samsun on Energy Efficiency in Buildings by Metropolitan Municipality of Samsun**

The workshop on energy efficiency in buildings has been organized in Samsun in the framework of BSBEEP Project by participation of the president, the vice-president and the experts from Building Energy Efficiency Branch of the Ministry of Environment and Urban Planning, The General Directorate of Renewable Energy of the Ministry of Energy and Natural Resources and also The World Energy Council Turkish National Committee.

All issues on national legislations related to energy efficiency in buildings especially including “Energy Efficiency Law” and such complementary regulations of the Energy Efficiency Law as “Energy Performance of Buildings Directive”, “Thermal Insulation in Buildings Directive” have been reviewed and evaluated in Samsun by participation of the significant experts from different institutions in the framework of BSBEEP project.

**Local Meetings on Energy Efficiency in Buildings by Metropolitan Municipality of Samsun**

Building Energy Efficiency Branch of the Ministry of Environment and Urban Planning, The General Directorate of Renewable Energy of the Ministry of Energy and Natural Resources, Turkish Society of HVAC and Sanitary Engineers and also The World Energy Council Turkish National Committee have been visited by project coordinator and

the president of Samsun Branch of Mechanical Engineer Association.

They were invited to Samsun Province by the beginning of new year 2014 in order to share their knowledge and demonstrate their experiences related with energy efficiency in buildings especially including such facilities as regulations and theories on energy efficiency, principles of insulation applications, plumbing systems, solar energy heat and power systems, lighting, electrical devices.

All issues regarding with energy efficiency in buildings especially including funding opportunities and programmes, political initiatives at EU, national and local level have been reviewed and evaluated by participation of the significant experts from different institutions in the framework of BSBEEP project.

The collection of best applied practices concerning energy efficiency issues occurred from these project activities, will be used during the implementation of pilot demonstration regarding with group activity III in Samsun Province.



*Mr. Menelaos Hatziapostolidis, Lead Partner Coordinator of BSBEEP Project from Municipality of Kavala, Mr. Hakan Sezgin BSBEEP Coordinator from Samsun Metropolitan Municipality and Mrs. Mehtap Akkuş from Municipality of Tekirdağ at Kick off Meeting Samsun*



*The expert participants at the Workshop Samsun on Energy Efficiency in Buildings*



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The audiences at the Workshop Samsun on Energy Efficiency in Buildings

## Editor

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**Hakan Sezgin**  
BSBEEP Coordinator of Turkey



Common borders. Common solutions.

SAMSUN METROPOLITAN MUNICIPALITY  
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