

## **Implementation report related to the initiative WORKSHOP, STUDY VISIT AND DISSEMINATION ACTIVITIES**

Carried out within the project "Exchange of experience in the field of energy efficiency  
in rural areas"

Name of the entity: ASOCIATIA GREEN ENERGY

Date of the activity:

1. WORKSHOPS: 20-22 June 2017
2. STUDY VISIT: 23-26 August 2017
3. DISSEMINATION ACTIVITIES: 1 May – 31 October 2017

Place:

1. WORKSHOPS: Belin, Moieciu, Vama Buzăului –Braşov, Covasna counties, Central Region, Romania
1. STUDY VISIT: Norway, Oslo region
2. DISSEMINATION ACTIVITIES: Braşov, Covasna and Harghita counties, Central Region Romania

Main purpose of the initiative:

### **1. THE SERIES OF WORKSHOPS**

The topic of the workshops was "Energy Efficiency in Rural Areas".

Two experts from Norsk Energi, the partner organization within the project, shared the Norwegian energy efficiency experience, presented a series of examples of good practice in the field. The presentations and activities of the workshops were interactive in which the participants were able to obtain relevant information on the situation in Norway and outlined some topics of common interest where the Norwegian partners could be partners in the future and could assist in formulating and implementing energy efficiency projects and systems based on renewable energy resources.

The series of workshops was part of the EU Sustainable Energy Week 2017 (EUSEW 2017) and took place in parallel with other similar events organized across Europe in June.

A number of 56 key actors from the Central Region (representatives of local rural public authorities, policy makers, local entrepreneurs, university representatives and NGO representatives) participated in the workshops.

The event was also honored by the presence of Deputy Roxana Mînzatu, member of the Commission for Industries and Services, and member of the Committee on European Affairs in the Parliament of Romania.

Supporting documents:

- Invitation
- Agenda  
[http://eusew.eu/sites/default/files/energy\\_days/agenda%20eusew\\_2.pdf](http://eusew.eu/sites/default/files/energy_days/agenda%20eusew_2.pdf)
- Presentation folder, flyer, posters, roll-up:  
[http://eusew.eu/sites/default/files/energy\\_days/2edited\\_eusew-energy\\_days\\_a1\\_editable.pdf](http://eusew.eu/sites/default/files/energy_days/2edited_eusew-energy_days_a1_editable.pdf)

Titles of the presentations:

- Bioenergy market in Norway – presented by Norsk Energi
- Norsk Energi's experience in energy efficiency – presented by Norsk Energi
- The Norwegian Climate and Energy Efficiency Policy – presented by Norsk Energi
- Demonstration project: cooperation between Russia and Norway for utilization of wood waste in the Komi Republic – presented by Norsk Energi
- Community projects for sustainability – Asociația Green Energy / Clusterul Inovativ al Biomasei Green Energy
- Aspecte de eficiență energetică în România - Asociația Green Energy / Clusterul Inovativ al Biomasei Green Energy

The series of events was also registered on the EUSEW website:  
<http://eusew.eu/energy-days/workshop-energy-efficiency-rural-areas>

Articles published in newspapers, the Internet and the social media:

- Mesagerul de Covasna, 21.06.2017: Clusterul inovativ al biomasei a lansat ieri proiectul „Schimb de experiență în domeniul eficienței energetice în zonele rurale”
- <http://www.ziarelive.ro/stiri/clusterul-inovativ-al-biomasei-a-lansat-ieri-proiectul-schimb-de-experienta-in-domeniul-eficientei-energetice-in-zonele-rurale.html>
- <http://stirilocale24.ro/covasna/clusterul-inovativ-al-biomasei-a-lansat-ieri-proiectul-schimb-de-experienta-in-domeniul-eficientei-energetice-in-zonele-rurale-854277/>

Photos from the event:

**Belin, 21 June 2017**



**Moieciu, 22 June 2017**



Vama Buzăului, 23 June 2017



## 2. THE STUDY VISIT

The action was aimed at studying innovative solutions in the field of energy efficiency directly, as well as consulting with experts in the field.

Over 4 days, 4 Green Energy experts have had a series of visits to facilities that have developed innovative energy efficiency solutions and facilities based on renewable energy sources:

- Oslofjord Varme AS



a heat production and district heat and cooling system.

heat production capacity consists mainly of heat pumps and business-to-business heat plants with a combined capacity of 210 MW, which together deliver district heat and district cooling to customers in the Greater Oslo and Akershus areas.



Heating of a hospital with a 1,2 MW pellet boiler

- Statskraft Varme School



Heat energy ensured by a complex heating system (pellet, bio-oil, electricity)

Computerized, automated system

- Powerhouse Kjelsas



An installed capacity of 8 MW biomass chips. The special feature of the system is that, while providing the heat demand for the campus buildings, the heat energy of the combustion of biomass and the condensation water is used to heat the outside of the plant and the parking space around the plant.



The thermal center is fully automated, the parameters of the equipment can be controlled and monitored on a computer. The system has been designed to monitor and measure the most important parameters of the operation on site, with the installed measuring devices and data collectors, so that university students specializing in energy and building engineering can conduct direct measurements and experiments at the power plant.

- Powerhouse Kjørbo



Norway's first energy-positive building, and the first building in the world to be renovated into an energy-positive structure.

Area: 5,200 sq m

Constructed: 1980s,

Energy-retrofitted: 2014

Solar cells on the roof – Recycled materials – Super insulated and air-tight envelope – Energy efficient windows – Energy efficient ventilation – Thermal mass – Geothermal heating/cooling and letting in the maximum amount of daylight.

On an annual basis the building will generate around 200,000 kWh, about half of which will be used in the building's operation.

- Bravida



Low-energy building

Solar collectors 300 m<sup>2</sup> on the south facade and roof, space heating (winter), domestic hot water (all year)

Ground source heating and cooling, Borehole heat exchange with heat pump

A series of bilateral meetings with representatives of organizations in Norway took place, such as:

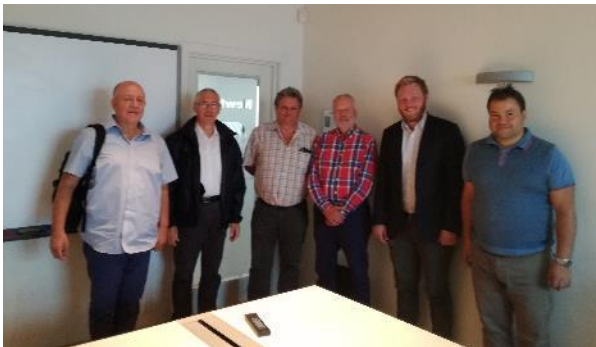
- Innovation Norway,
- Norwegian Energy and Water Directorate,
- NOBIO-Norwegian Bioenergy Association,
- Norsk Energi



Meeting with representatives of Innovation Norway



Meeting with representatives of the Norwegian Energy and Water Directorate



Meeting with representative from NOBIO-Norwegian Bioenergy Association



Meeting with representatives from Norsk Energi

Supporting documents:

The agenda of the visit

Presentation materials supported by the delegation from the Green Energy Association  
Delegation list

Articles:

- [www.3szek.ro /load/cikk/106092/zold\\_uzenet\\_oslobol\\_kitekinto](http://www.3szek.ro/load/cikk/106092/zold_uzenet_oslobol_kitekinto)
- [www.lapszemle.ro /2017/09/20/zold-uzenet-oslobol-kitekinto/](http://www.lapszemle.ro /2017/09/20/zold-uzenet-oslobol-kitekinto/)
- <http://mesageruldecovasna.ro/clusterul-green-energy-va-finaliza-curand-proiectul-schimb-de-experienta-domeniul-eficientei-energetice-zonele-rurale-derulat-cu-parteneri-norvegieni/>

- <http://mesageruldecovasna.ro/proiectul-schimb-de-experienta-domeniul-eficientei-energetice-zonele-rurale-regiunea-centru-derulat-cu-parteneri-norvegieni-fost-finalizat/>
- [ziare.com /sfantu-gheorghe/stiri-actualitate/clusterul-green-energy-va-finaliza-curand-proiectul-schimb-de-experienta-in-domeniul-eficientei-energetice-in-zonele-rurale-derulat-cu-parteneri-norvegieni-6960846](http://ziare.com/sfantu-gheorghe/stiri-actualitate/clusterul-green-energy-va-finaliza-curand-proiectul-schimb-de-experienta-in-domeniul-eficientei-energetice-in-zonele-rurale-derulat-cu-parteneri-norvegieni-6960846)

### 3. DISSEMINATION ACTIVITIES

The actions were aimed at raising awareness and educating the public on the energy efficiency of buildings and utilities in rural areas.

The actions took place in Locodeni (Harghita), Belin, Ghelinta, Estelnic (Covasna), Bran (Braşov). A total of 67 people benefited from information activities.

Within the project, experts of Green Energy have produced a brochure in Romanian language on the topic: Energy Efficiency in Romania and Norway, presenting general information, the main normative acts, provisions and measures to be fulfilled.

At the same time, experts from the Green Energy Association disseminated information on energy efficiency issues among the target group in the localities in Braşov, Covasna, Harghita, and on the occasion of the International Conference on Sustainable Energy, organized by Transilvania University in Brasov on October 20, 2017.

Articles:

- [codlea-info.ro/roxana-minzatu-500-milioane-de-euro-pregatite-pentru-romania/](http://codlea-info.ro/roxana-minzatu-500-milioane-de-euro-pregatite-pentru-romania/)
- [coronapress.ro /articol/41776](http://coronapress.ro/articol/41776)
- [monitorfg.ro /index.php](http://monitorfg.ro/index.php)
- [monitorulexpres.ro/](http://monitorulexpres.ro/)
- [newsbv.ro/2017/07/08/roxana-minzatu-asigurarea-necesarului-lemn-populatie-prioritara/](http://newsbv.ro/2017/07/08/roxana-minzatu-asigurarea-necesarului-lemn-populatie-prioritara/)
- [psd-brasov.ro /500-de-milioane-de-euro-pregatite-pentru-romania/](http://psd-brasov.ro/500-de-milioane-de-euro-pregatite-pentru-romania/)

Main outcome of the initiative:

The workshops organized in the Centru region have contributed to the development of knowledge in the field of energy efficiency among the stakeholders in the public sector and the economic sector. Participants have the opportunity to get informed directly from energy efficiency experts.

At the same time, the Norwegian partner Norsk Energi's specialists had the opportunity to learn about local realities in the field of bioenergy, the situation regarding the use of renewable energy sources and energy efficiency in rural areas.

Taking into account these data and these realities, the formulation of ideas / proposals for projects becomes more realistic, more compatible with the needs of the rural community.

The project has helped identify potential locations, open communities to develop pilot projects in the EE field, who want to be partners in developing sustainable energy efficiency projects in the community.

The actions carried out within the project contributed primarily to awareness raising and stakeholder awareness on the importance of addressing the issue of energy efficiency, the use of renewable energy resources, and the initiation of pilot projects in this respect, in order to give as positive as many examples rural localities. Such a pilot project could

be designed / initiated on the topic of efficient energy management and the use of renewable energy in public infrastructures.

In the formulation of the project concept, the priority axis of the Financial Mechanism 2014-2020 n° 12 Renewable Energy, Energy Efficiency, Energy Security will be considered.

At the same time, the study visit to Norway provided the opportunity for representatives of the delegation from the Green Energy Association to discuss directly with representatives of Norway's energy efficiency organizations about possible partnerships, joint actions. The results of the visits and new contacts of entities in Norway were shared with representatives of Romanian entities that intend to develop partnerships with Norway in the field of energy efficiency.

Achievement of the indicators:

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Indicators achieved:

- 56 people participated in workshops on energy efficiency in 3 rural communities
- 4 people participated in an exchange of experience in Norway (Oslo region), bilateral meetings
- In total, 7 rural communities have been involved in information and awareness actions
- Brochure on Energy Efficiency
- Information materials (flyers, roll-ups, posters)
- Media coverage of the project: EUSEW, social media, written press, internet

The project has greatly contributed to the strengthening of bilateral relations, given that:

- Stakeholders from rural areas benefited from awareness raising and awareness-raising actions, Norwegian models
- Norwegian specialists had the opportunity to know the local realities, issues and needs in the field of energy efficiency in public buildings and households
- Several models have been discussed, solutions that can form the basis for potential pilot projects, provided that these solutions are adapted to local realities
- Following the meetings and study visits in Norway, new contacts have been established, which may be the basis for subsequent actions / projects
- Norwegian specialists are open to future cooperation mainly in the field of technical assistance, specialized training and expertise
- There were also discussed opportunities to develop partnerships for projects targeting Green Energy Cluster companies and / or other companies (projects to increase energy efficiency in production)