



ENERGY AND BIOMASS

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Moldova Energy and Biomass Project Newsletter

Moldova Energy and Biomass Project

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PROJECT NEWS



FIRST SOLAR ENERGY POWERED CONCERT ORGANISED IN CHISINAU

The First Solar Energy powered Concert in the Republic of Moldova "Sun Da-i Fest" took place in Chisinau on Sunday, 28 April 2013.

Hundreds of people spent the afternoon in the rhythms of music powered by solar energy. The Bands FurioSnails, Whinona Ryderz, Paralela 47, DJ Dawee (SWS, Berlin), Dandies, Laura Bodorin and the Girls' Fanfare from Holercani charmed the audience with their energising songs.

"Immaculate Energy Source! We have it at "Sun Da-i Fest"! Clean energy affordable for everybody: this is one of the UNDP Mandates around the World. The sun, wind, water and biomass are reliable sources of energy that help us maintain the Terra clean. They provide us with energy produced in our own country. And this means reliability, new jobs, new businesses created and investments made in Moldova for its future development," Nicola Harrington-Buhay, UN Resident Coordinator and UNDP Resident Representative in Moldova, stated at the event.

"Sun Da-I Fest" was an open-air event, which reserved spaces for exhibitions of renewable energy-based technologies, photo exhibitions for success stories of renewable energy use in the Republic of Moldova, and symbol-photos promoting the reduction of dioxide carbon emissions.

"The European Union supports the Republic of Moldova in its endeavours to increase the use of renewable energy. We would like more people to become supporters and users of renewable energy. I am pretty sure this Rock Concert will increase the number of eco-energy supporters in the Republic of Moldova", Kaido Sirel, Head of Operations of the European Union Delegation in Moldova, mentioned at the Concert.

"Sun Da-I Fest" is a joint initiative of FurioSnails Band and EU-UNDP-funded Moldova Energy and Biomass Project, through which we envisage to promote renewable energy and ensure live-show how people can derive energy from mother-nature sources.

"This year edition is just a start. In 2014 we would like to organise a larger-scale concert powered by renewable energy. We intend to promote alternative energy resources. Our desire is that the Republic of Moldova decreases its dependence on foreign energy resource suppliers, and starts producing its own energy out of solar, wind, water and biomass resources", Lilian Severin, FurioSnails Soloist, spoke out.

The photovoltaic panels, which captured solar radiation and transformed it into electricity, were provided, free-of-charge, for the Concert by the French Company SolarTech.

"Sun Da-I Fest" was organised by Moldova Energy and Biomass Project, Moldcell Company and FurioSnails Band.



PEOPLE ARE TALKING ABOUT SUN DA-I FEST



Valeriu Cosarciuc, "Moldagrotehnica"
Company Representative:
"I am very happy we host an event promoting the renewable energy. The Sun is always a Feast. We have great potential of renewables in Moldova, primarily the biomass and the sun. By

having a well-thought and funded Programme we could resolve the energy problem in the rural area, in all households through the use of renewable resources within maximum ten years."



Radu Marin Suceanu, actor:
"I believe this event is benefic for Moldova. If the Sun shines in our country as well why should we be dependent on the natural resources of other countries such as Russia?"

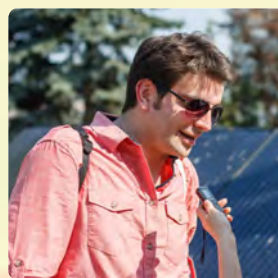


Anastasia Cires: *"I support the events promoting environmentally-friendly resources. Moldova, as a sunny country, could highly benefit from solar energy. Turkey, for instance, has been using solar Energy to heat dwellings or produce hot water for quite a long time. Those who go on holiday*

to Antalya could see water tanks and voltaic panels installed on the top of buildings. Moldova could follow this experience successfully".



Ina: *"I am happy this is an open-air event with free entrance. My husband and I think to switch to biomass boilers. We want to consume our energy, produced from nature-friendly sources."*



Alecu Matraguna, Paralela 47 Soloist: *"The current event is a beautiful one. I am totally pro the campaigns advertising the protection of environment and its resources. Let the solar batteries and wind turbines be spread across the whole country."*



Eugen: *"I believe that, along the years, alternative resources would become popular in Moldova as well. Good for those families, persons, which use renewable energy. It is good that Media and Mobile Phone Operators are responsive to such initiatives and get actively involved in public awareness campaigns such as the one unfolded today."*



For more photos follow the link below:
http://biomasa.aee.md/photogallery-ro/ph_29-04-2013/#ad-image-4



ENERGY EFFICIENCY AGENCY WILL PROVIDE PELLETING EQUIPMENT UNDER THE LEASING PROGRAMME

The Energy Efficiency Agency will provide pelleting equipment under the leasing programme along with briquette production lines available previously based on the financing line amounting for 500 thousand Euro. The Energy and Biomass Project Coordination Board approved a decision in this regard at its sitting held on Thursday, April 18, 2013, headed by Octavian Calmac, Deputy Minister of Economy. Concurrently, it is envisaged to fund the procurement of machines for primary shredding. Prior to this initiative economic entities had access to baling machines and bale handling devices only.

All the conditions set for the fund recipients are available on the web site of the Energy Efficiency Agency and Energy and Biomass Project, funded by the European Union and co-funded and implemented by the United Nations Development Programme, at www.biomasa.aee.md.

According to the Activity Report, during QI 2013 Suedzucker Moldova was selected for piloting a cogeneration biofuel plant. The total cost of this project is 7 million Euro. The non-refundable grant offered by the Energy and Biomass Project in Moldova is 200.000 Euro.

Currently a public-private partnership is unrolled with the Local Government authorities from Leova District aimed at installing pelleting equipment.

As many as 37 European Standards in the area of biofuels have been approved in order to ensure high quality biomass products, of which six Standards have been translated into Romanian. Besides, a Technical Regulation on Solid Biofuel Quality is under development. This Technical Regulation will

be approved by a Government Decision and be legally bound on all briquette and pellet producers.

In order to foster the biofuel market development seven local companies have been accredited to sell biomass boilers assembled locally and the State will subsidise 30% of the costs incurred by households for boiler procurement and installation, but not more than 1000 Euro.

At the same time, a large-scale public awareness and training component has been implemented targeting the local leaders, public authorities, economic entities, etc., through field visits and round-tables conducted in this regard. Also, a specialised training course has been developed to be unfolded by the Public Administration Academy, and an optional training course to be provided to lower secondary school students.

THE CONTEST FOR THE ACCREDITATION OF PELLETING AND BIOMASS SHREDDING EQUIPMENT SUPPLIERS WAS LAUNCHED

Energy and Biomass Project and the Energy Efficiency Agency (as the implementing agency) is launching the contest for the accreditation of pelleting and biomass shredding equipment suppliers.

Within the program will be eligible only the equipment which meets the following requirements:

- only new and technically advanced equipment is accepted, with a low energy consumption, according to the technical parameters indicated below;
- technical and agricultural equipment is not accepted for procurement (combines, tractors, seeders, etc.);
- transport units (including the specialized ones) are not accepted for procurement.

Technical parameters of the eligible pelleting equipment:

- Acceptable functioning humidity of the equipment (%): ≥ 14 %;
- Production capacity: ≥ 300 kg/h;
- Electrical power of the equipment < 80 kW;
- Energy quantity used to produce 1 kg of pellets $\leq 0,2$ kWh/kg
- Density of pellets: ≥ 1100 kg/m³;
- Pressing matrix form – conical;

Technical parameters of the eligible shredding equipment:

- Production capacity of the shredder: :
≥ 10 m³/h – for branches; ≥ 5 m³/h – for logs;
- Motoric factor - motorized or aggregated to tractor;
- Diameter of the biomass before shredding: ≤ 15 cm
- The size of the biomass after shredding: ≤ 1-2 cm;
- Automation degree : collecting, chopping, storage, unloading;

Additional information can be offered at the following phone numbers:

(022) 31-10-01; 49-94-44, fax: 31-10-01.

The accreditation process of the suppliers within the program has no deadline and will be performed continuously until the available funds are depleted.

For the contest, the potential equipment suppliers have to submit the application and all the necessary documents to the Energy Efficiency Agency office

address: 1 Alecu Russo, Chisinau, MD-2068, et.1 (at the reception)).

Incomplete files will not be accepted.

MODERN BIOMASS BOILERS TO BECOME MORE AFFORDABLE IN MOLDOVA

More than 600 families will be able to purchase modern biomass boilers, after the procurement costs will be partially covered by European funds. The Government, with the support of the EU-UNDP Energy and Biomass Project, launched on 15th of April, a Programme which will offer, under more favourable terms, biomass boilers to households.

Modern biomass-based technologies have become more affordable thanks to the launch of this Programme. Households from villages and small towns will have now the opportunity to buy briquette, pellet fired boilers, or combined boilers, with 30% of the costs to be reimbursed through funds allocated by the Moldova Energy and Biomass Project.

„I am pleased to say that with the launch of this programme today, we provide the chance to a different group of beneficiaries – private households – to



experience the benefits of biomass-based energy. The EUR 640,000 provided by the European Union will be used to subsidise around 600 boilers. This is a significant starting point that will help hundreds of families to save on their house heating bills. At the same time, the new program will boost the further development of the already established markets in the Republic of Moldova – that of biomass fuel production, as well as the one centred on biomass-based technologies” declared Dirk Schuebel, Head of European Union Delegation to Moldova.

The boilers to be purchased under this initiative will be manufactured and/or assembled locally. So far, nine companies have been accredited by the Energy Efficiency Agency to supply boilers to households under this Programme. These companies' portfolio comprises a wide range of boilers manufactured in the Republic of Moldova or assembled locally from parts supplied by famous European producers from Germany, Poland, Czech Republic, Romania, Latvia, and Greece. The accreditation process of companies – suppliers of biomass boilers is a continuous one, and the number of such enterprises will be increasing.

“By promoting the procurement of biomass boilers, the Programme will contribute to the development of a new industry, having already involved several hundreds of economic entities – producers of briquettes and pellets, manufacturers of boilers, distributors, not to mention the agricultural producers. In turn, households will benefit from lower costs due to the advanced technologies in this field compared to the use of natural gas”, Valeriu Lazar, acting Deputy Prime Minister, Minister of Economy, said.

The Subsidy Programme for procurement of biomass boilers by the rural households of Moldova was launched in the framework of Moldova Energy and Biomass Project, funded by European Union and co-funded, and implemented by United Nation Development Programme.

„By launching of this Programme, in fact a whole chain of benefits is created, bringing additional opportunities to men and women from Moldova: the national sector for modern biomass boilers assembling and manufacturing is developing, the biomass fuel production sector is expanding, new businesses are launched and new jobs are created. The resources invested stay in the Republic of Moldova and contribute

to its further development. In addition, emissions are reduced and the environment is protected by reducing the consumption of energy from fossil sources”,
Narine Sahakyan, Deputy Resident Representative of UNDP in Moldova, declared.

The Programme's total budget amounts to 640 000 Euro. The maximum value to be reimbursed out of the Programme funds is 1 000 Euro per installed boiler.

THE LIST OF ACCREDITED COMPANIES MANUFACTURING-ASSEMBLING BIOMASS BASED BOILERS FOR HOUSEHOLDS

Name of the company	Contact person	Telephone	Email	Country of origin	Boiler type
Diolum SRL	Ungureanu Ion	069226114	diolum@mail.md ministroi@yahoo.com	Czech Republic	Briquettes, Pellets, Combined; max. 25 kW
	Mihailov Nicolai	069690650	consistcom@mail.ru		
Moldagrotehnica SA www.moldagrotehnica.md	Bujor Sergiu	(231)88710; 068122660	marketing@moldagrotehnica.md	Moldova	Briquettes, Pellets, Combined; max. 25 kW
	Podureac Vasile	(231)88703	v_podureac@moldagrotehnica.md		
Laiola SRL www.laiola.md	Cojoharenco Igor;	(22)477699; 068157575;	info@laiola.md; igor.cojoharenco@gmail.com;	Germany, Poland	Briquettes, Pellets, Combined; max. 25 kW
	Vrabie Oleg	079974138	vrabie.oleg@laiola.md		
Sinteh-Service SRL	Ciudin Alexandru	069649599; 068502404	bio200955@mail.ru	Italy, Poland, Czech Republic	Briquettes, Pellets, Combined; max. 25 kW
	Hariton Eugenii	069649599; 068502404	eugeniu.hariton@gmail.com		
Gros & Co. International SRL www.bioindustrie.md	Cicati Sergiu	(22) 358149 079409503	cazanebiomasa@yahoo.com	Poland, Romania	Briquettes, Pellets, Combined; max. 25 kW
	Trinca Alexandru	(22) 234050; 079234050	office@ecopractic.md	Poland	Briquettes, Pellets, Combined; max. 25 kW
DarnicGaz SRL www.darnicgaz.md	Evtodiev Eugeniu	069028841	info@darnicgaz.md	Lithuania, Greece	Briquettes, Pellets, Combined; max. 25 kW
Pantehno Nord SRL	Panciu Vadim	068600621	vpanchuk@hotmail.com	Moldova	Briquettes, Pellets, Combined; max. 25 kW
Bamas Grup SRL	Cernichii Tihon	069881111	tihonsec@mail.ru	Italy	Briquettes, Pellets, Combined; max. 25 kW

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More information on the Programme offering biomass boilers to households under favourable terms, you can find here:

<http://biomasa.aee.md/biomass-boilers-ro/>



MOLDOVAN BUSINESSMEN DISCOVER THE EXPERIENCE OF CZECH REPUBLIC, POLAND, AND ROMANIA IN THE PRODUCTION OF BIOMASS BOILERS

A Moldovan Business Mission visited several European countries during March 18-29 to get acquainted with their experience in manufacturing and assembling modern biomass-fired boilers. The Business Mission is a joint initiative of the EU-UNDP funded Moldova Energy and Biomass Project and of the Energy Efficiency Agency.

Representatives of seven National Companies from the Energy Sector, as well as Experts of the Energy Efficiency Agency and Energy Efficiency Fund visited enterprises manufacturing biomass-fired boilers located in the Czech Republic (Atmos, Verner, Ponast, Viadros, Benekov), Poland (Herz), and Romania (Thermostahl), shared their experience, met businessmen from the Bio-energy Sector, as well as national authorities responsible for the renewables and energy efficiency area.

"It is important that the Republic of Moldova progresses towards manufacturing and assembling biomass boilers along with the production of biofuels. Such a complex approach will contribute to the development of modern technologies aimed at employing the biomass energy potential", Mihai Lupu, Head of Energy Efficiency Monitoring Service and the Use of Renewables within the Energy Efficiency Agency, has mentioned.

Businessmen from the Republic of Moldova accumulated additional information aimed at developing the local market of biomass boilers manufactured by European countries, build collaboration with the Leaders in the area of developing biomass-fired technologies from the Czech Republic, Poland, and Romania.

"This study preceded the launch of a Programme intended for households, according to which at least 500 families would be able to purchase modern briquette- and pellet-fired boilers manufactured or assembled in the Republic of Moldova, part of the costs being refunded by the Energy and Biomass Project. The Business Mission will support the National Companies to build collaboration and trade relations with modern biomass boiler manufacturers from the European Union and transpose their activity in the Republic of Moldova", Nicolae Zaharia, Energy and Biomass Project Business Development Expert, has stated.

ENERGY AND BIOMASS PROJECT COVERED THE ENTIRE REPUBLIC OF MOLDOVA

In the period of 24-30 of April, the Project was launched in the districts Criuleni, Dubasari, Briceni, Edinet, Drochia and Ocnita, thus covering the entire Republic of Moldova. The communities from the mentioned above districts are expected to send the letters of intentions to the Energy and Biomass Project until May 14th 2013.

The communities which want to install biomass based boilers will have to pass 4 selection stages:

- 1** evaluation of the letters of intention,
- 2** examination of the project applications,
- 3** the energy performance of the building,
- 4** final evaluation and approval of the projects for investments.

So far, 119 villages have been selected to have their public institutions connected to alternative biomass heating systems. Overall, modern biomass heating systems have been (are being) installed in 139 schools, kindergartens, community centres and Village Halls thanks to the financial support provided by the Energy and Biomass Project. The new heating systems have led to the creation of more than 250 new jobs, as well as to the launch of tens of new businesses producing biomass fuel in the form of pellets and briquettes.



SCHOOL AND KINDERGARTEN FROM TAREUCA VILLAGE HAVE BIOMASS HEATING SYSTEM INSTALLED AS AN ALTERNATIVE TO THE NATURAL GAS HEATING SYSTEM

The school and the kindergarten from Tareuca Village, Resina Rayon have their energy security ensured. Both institutions have modern pellet-fired heating plants installed within their facilities. Next winter the village school and kindergarten will be heated based on fuel produced locally, among the beneficiaries being more than 230 children and the staff.

The biomass heating system is an alternative to the existing one based on natural gas. *"Since 2005 we have used natural gas to heat the village school and kindergarten. The continuous increase in natural gas prices forced us to cut on other expenses necessary for both institutions. Even a few weeks when we had the new biomass heating system tested showed that the savings we can achieve during the heating season would count for hundreds of thousands of lei"*, Mihail Olari, Mayor of Tareuca Village, pointed out.

The biofuel will be supplied to the school by Andrei Gârlea, a local agricultural entrepreneur who has launched a pellet and briquette production business in Tareuca Village this year. The business brought eight new full-time jobs and 12 seasonal jobs. *"My Peasant Entity has got more than 3,700 hectares of land where rape (Brassica), wheat, barley and aromatic plants are cultivated. The agricultural waste derived from crop processing enables to produce annually more than 6,000 tonnes of briquettes and pellets. This quantity is enough to heat more than 40 village schools or kindergarten in winter-time"*, Andrei Gârlea told us. By the way, his enterprise is heated with pellets.

The total investment provided to Tareuca Village by the UE-UNDP-funded Energy and Biomass Project amounted to \$167,350, and the community contribution was \$19,000. *"The new heating systems almost halve the costs incurred for heating. This is an appropriate solution for rural schools, kindergartens and community centres when the fossil fuel prices are on*

increase. Thanks to the European funds these benefits will be felt by public institutions from each Rayon", Dirk Schuebel, Head of the European Union Delegation to Moldova, has stated during his field-trip to Tareuca Village which took place on 30th of April 2013.

Tareuca is one out of four communities from Rezina Rayon selected to have their public institutions heated with biomass. Echimauti, Sircova, Tareuca and Tahnauti Villages received the UE-UNDP-funded Energy and Biomass Project support to upgrade the heating systems of four schools and one kindergarten and switch them to biomass. *"Rezina Rayon is one out of 26 Rayons covered by the Energy and Biomass Project so far. Tareuca Village is part of the group of communities, which decided to use and promote renewable energy. This is a good example of united efforts aimed at ensuring access to locally produced energy and sustainable environment to community people"*, Nicola Harrington-Buhay, Resident Representative of UNDP in Moldova has mentioned.

14 VILLAGES FROM STRASENI, IALOVENI, CALARASI, NISPORENI, CAUSENI AND TARACLIA HAVE PASSED TO THE THIRD STAGE OF SELECTION

Rural communities from districts Straseni, Ialoveni, Calarasi, Nisporeni, Causeni and Taraclia that want to connect their public institutions to heating systems on biomass, have passed the selection stage.

Selection committee that consists of representatives of the Ministry of Economy, Ministry of Agriculture, Ministry of Regional Development and Construction, Energy Efficiency Agency, EU Delegation to Moldova and UNDP, has selected 14 villages from these districts to install modern biomass boilers in their public institutions: Micleuseni, Vorniceni (district Straseni), Hirbovaț, Saseni (district Calarasi), Rusestii Vechi (district Ialoveni), Bratuleni, Soltanesti (district Nisporeni), Ciuflesti, Cîrnatenii Noi, Tanatarii Noi (district Causeni), Cairaclia, Cealic, Ciumai, Novoseolovca (district Taraclia).

We would like to remind you the fact that for the first stage of selection were admitted 27 villages from this districts.

The installation works of the new heating systems will begin in July 2013.

Learn more about selection conditions for the communities which would like to install biomass heating systems with the support of Energy and Biomass Project:

<http://biomasa.aee.md/selection-criteria-ro/>

EVENTS CALENDAR OF THE ENERGY AND BIOMASS PROJECT

16 May	<p>Training of beneficiary communities in ensuring the sustainability, participatory monitoring and evaluation of the projects in the following localities: Hirbovat, Zolotievca, Anenii Noi district</p>	Hirbovat, Zolotievca, Anenii Noi district
17 May	<p>Training of beneficiary communities in ensuring the sustainability, participatory monitoring and evaluation of the projects in the following localities: Calfa, Varnita, Anenii Noi district</p>	Calfa, Varnita, Anenii Noi district
18 May	MEBP participation to the EU Days in Moldova	Chisinau, Opera and Ballet Theatre Square
22 May	<p>Project Selection Committee: Selection and approval of initiatives from communities to implement the biomass project in regions: Briceni, Ocnita, Edinet, Drochia, Dubasari, Criuleni.</p>	Briceni, Ocnita, Edinet, Drochia, Dubasari, Criuleni.
26 May	MEBP participation to the EU Days in Moldova	Tiraspol, Victory Park

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