

# Moldova

## Energy and Biomass Project

“Simpozionul moldo – german în domeniul  
aprovizionării cu apă, canalizării și eficienței  
energetice”, Chisinau, 20 martie, 2012

Proiectul Energie și Biomasă în Moldova



## Project Information

Timeframe: 2011- 2014

Funded by the European Union and UNDP

European Union 14,000,000 EUR

UNDP 560,000 EUR

Implemented by UNDP Moldova

## Overall objective:

*The overall goal is to contribute to a more secure, competitive and sustainable energy production through a targeted support to the most viable and readily available local source of renewable energy which is biomass from agricultural waste*



## Expected project outputs:

1. Improvement of municipal biomass heating and fuel supply markets established
2. Foundations laid for establishment of efficient household heating, industrial cogeneration and biomass briquetting markets
3. Capacity for growth of biomass markets at regional and local levels is built in Moldova
4. The opportunities and benefits of biomass energy for Moldova are well known and visibility of project results promoted

## Output 1

### 1.1 Installation of 130 biomass-fired boiler plants / average capacity of 0.3MW

*Selection criteria of districts / communities / projects*

*2 stage process:*

*-Pre-selection of Expressions of Interest / Application*

*-Participatory needs and capacity assessment / project appraisal*

*Design-build approach, / 3 stage selection of approximately 7/10 contractors, / Request for proposals / tenders*

### 1.2 Fuel cycle facilitated through leasing/hire-purchase mechanism for local fuel suppliers

### 1.3 Market environment enhanced to support quality, efficiency and effectiveness

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## Progress:

**2011:** 8 districts - Stefan Vodă, Leova, Cantemir, Hâncești, Telenеști, Sângerei, Fălești, UTAG / 35 approved projects/ 2 completed, 33 ongoing;

**2012:** 13 districts

Glodeni, Dondușeni, Soroca, Râșcani, Florești, Orhei, Ungheni, Rezina, Șoldănești, Anenii Noi, Cimișlia, Bașarabeasca, Cahul  
22 projects approved ; other 35-40 projects under identification

**2013:** 12 districts

Briceni, Ocnita, Edineți, Drochia, Călărași, Criuleni, Dubăsari, Ialoveni, Nisporeni, Strășeni, Căușeni, Taraclia

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## **Community share:**

1. Repair works, heat conservation measures within the public buildings
2. Repair / renovation of internal heating systems
3. Repair of biomass fuel store houses
4. Land improvements/territory arrangements closed to boiler plant and store house area
5. Site technical supervision
6. Other works by case

## **UNDP support:**

1. Technical design,
2. Construction of new biomass-fired boiler plant
3. Construction of outside heat distribution nets,
4. Connection of new boiler plant to power supply nets and water supply networks
5. Rehabilitation of heat point rooms and installation of new automation and heat control equipment
6. Connection to existing internal heating system, testing and putting into operation of the whole heating system
7. Land improvements and outside light around the boiler plant,
8. Environment and fire protection measures

## Activity 1.2

### ***Fuel cycle facilitated through leasing/hire-purchase mechanism for local fuel suppliers***

1. Develop a sustainable mechanism for fuel supply to the installed boilers. A mechanism for leasing biomass processing equipment developed.
2. Identify reliable local partner organizations capable to deliver the required financial services
3. Monitor and evaluate activity implementation
4. Continuously support the local producers with relevant information concerning solid biomass fuel production cycle

## Activity 1.3

### ***Market environment enhanced to support quality, efficiency and effectiveness***

1. Support relevant initiatives concerning improvement of the legal framework for production/consumption of solid biomass fuels ( i.e. develop the technical regulation for briquettes and pellets)
2. Keep track of problems and challenges faced by local stakeholders of biomass market and address policy, legislation and bylaw creation to facilitate the market development.

## Output 2

***Foundations laid for establishment of efficient household heating, industrial cogeneration and biomass briquetting markets***

## Activity 2.1

***Market solutions for high efficiency affordable rural biomass household heating identified and piloted***

1. Stimulate the market (rural households) to use efficient biomass based heating solutions. Until the end of the project around 500 biomass based boilers/stoves will be installed
2. Stimulate the local producers to start confectioning / assembling identified biomass based heating solutions.

## **Activity 2.2**

### ***Industrial cogeneration using biomass fuel demonstrated***

1. Develop and implement at least one Combined Heat and Power (CHP) unit using biomass as a by-product of an agri-industrial process
2. Demonstrate the opportunities of supplying power to the grid produced from agri-industrial by-products

## **Activity 2.3**

### ***Market solutions for briquetting piloted***

1. Estimate the potential of biomass briquetting in Moldova (biomass potential, consumers preferences, private sector, LPAs)
2. Initiate at least 4 sustainable briquetting businesses using different type of biomass in the form of Public Private Partnerships



## Component 3

### *Training and Capacity building at local and regional level*

1. Trainings for Local Public Administration beneficiaries of biomass based heating boilers
2. Trainings and workshops for boilers' operators
3. Training and capacity building activities for potential fuel suppliers (straw bales, briquettes/pellets)
4. Capacity building activities for “the young generation” related to renewable energy sources, their efficient use and development perspectives in Moldova.

## Component 4

### *The opportunities and benefits of biomass energy are well known and project results promoted*

- A national awareness raising campaign on benefits of production and use of renewable energy
- MOLDOVA ECO-ENERGETICĂ,
- Media campaign on visibility of project results



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