



**Energy Agency of the Republic of Macedonia**

**“Financing Energy Efficiency Investment for Climate Change Mitigation”**

**Present situation of UN ECE 21 Grant No: ECE/GC/2008/031**

**&**

**Policy Reforms to Promote Energy Efficiency and Renewable Energy Investments**

**XIV session of the AHGE, October 7-9, 2009 - Geneva**

**Energy Agency of the Republic of Macedonia**

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## **Energy Agency of the Republic of Macedonia**

- **Memorandum of Understanding between UNECE and EARM (NPI) is signed on February 9, 2009,**
- **Project team at NPI is established,**
- **National coordinator is changed on the end of May 2009 with new director appointed by Steering Committee beginning of June 2009,**
- **Procedures for opening special grant account at National Bank of RM is started on February 10, 2009 by issuing request to the Ministry of Economy,**
- **First payment in amount of 5.250 US is received on April 24, 2009,**
- **Project document, MoU, ToR, Working Plan etc are officially translated in to Macedonian language,**
- **Translated project documents are disseminated to the authorities.**



## Energy Agency of the Republic of Macedonia

### Completed activities agreed in the MoU:

#### Filled in questionnaire” Request for Information from NPI”

- Meetings and Interviews during the mission of Poyery Energy Consulting AG with :
- MANU – Responsible academicians involved in preparation of Energy Strategy,
- COGEL- Private Cogeneration Plant
- Financial Institutions: European Bank for Reconstruction and Development, SEAF, Macedonian Bank for Development Promotion, UNI Bank
- Macedonian Ministries of Environment and of Economy
- Toplifikacija (heating company) Engineering and AD ELEM
- MACEF, Timel Project Engineering TED Consulting, Nova Energija doo, Solar Tubes, University St.Cyril & MMethodius, SIETO, Fonko ESCO
- Filled-in questionnaire on ICT capabilities and skills.



## **Energy Agency of the Republic of Macedonia**

### **Activities to be completed:**

- **Progress report on each of the three tasks will be submitted mid of October 2009**
- **Progress report and first draft National Case Study describe how specific policy reforms helped transform an economically attractive investment project into a bankable project, will be submitted to the end of October 2009**
- **Website with all elements will be design and operative to the end of December 2009**



## **Energy Agency of the Republic of Macedonia**

### **Strategic documents:**

- **Energy Strategy prepared by MANU remains to be adopted by Parliament,**
- **Energy Action Plan remains to be prepared,**
- **Energy Efficiency Strategy adopted 2004 in process of up dating,**
- **Action Plan for implementation of Energy Efficiency Strategy is in process of preparation,**
- **Energy Law, adopted by the Parliament in 2006 changes and current harmonization requested by Energy Community,**
- **The Energy Law obliges municipalities and the City of Skopje to develop and implement five-years Local Energy Efficiency Programs and action plans for their implementation.**



## Energy Agency of the Republic of Macedonia

### Secondary Legislation:

- **Rulebook for EE labeling of household appliance, adopted 2007, to be applied from January 1, 2010,**
- **Rulebook for EE of new buildings and reconstruction of new ones, to be applied from January 1, 2010,**
- **Rulebook for RES for production of electricity,**
- **Rulebook for acquiring the status of preferential producer of electricity from RES,**
- **Rulebook for issuing the GoO from RES,**
- **Rulebook for acquiring the status of preferential producer of electricity from CHPP,**
- **Rulebook for issuing the GoO from CHPP.**



## **Energy Agency of the Republic of Macedonia**

### **Related Studies:**

- **Study for development of wind power plants in the Republic of Macedonia (in final phase of preparation)**
- **Study for integration of wind power plants in the Macedonian Transmission System (in initial phase)**
- **Study for using of biogas in the city of Skopje (prepared)**



## **Energy Agency of the Republic of Macedonia**

### **Government Decision of the maximum installed capacity of preferential producers from RES**

- **Hydropower plants up to 10MW without limitation,**
- **Wind power plants per plant up to 30MW and, in total 150MW**
- **Photovoltaic's with install capacity up to 50kW up to 2 MW in total**
- **Photovoltaic's with install capacity over 50kW not more than 1 MW, up to 8 MW in total**
- **CHPP (biomass) with install capacity up to 2 MW per plant, in total of 10MW**
- **Biogas power plants with install capacity up to 500kW up to 2 MW in total 2MW,**
- **Biogas power plants with install capacity over 500kW but not more than 2 MW, up to 8 MW in total**



## Energy Agency of the Republic of Macedonia

<b>Small Hydro Power Plants</b>		
Block	Monthly quantities of delivered electricity [kWh]	Feed-in tariffs [€cents/kWh]
I	1 – 1.020.000	12,00
II	1.020.001 – 2.040.000	8,00
III	2.040.001 – 4.200.000	6,00
IV	4.200.001 – 8.400.000	5,00
V	above 8.400.001	4,50
<b>Wind Power Plants</b>		8,90
<b>Electricity generation from biogas</b>		
Group	Installed capacity	
I	≤ 500 kW	13,00
II	> 500 kW	11,00
<b>Photovoltaic</b>		
Group	Installed capacity	
I	≤ 50 kW	46,00
II	> 50 kW	41,00



## Energy Agency of the Republic of Macedonia

### Energy Project implemented by Energy Agency

- **GEFSustainable Energy Project GEF grant of 5.5 Mio US\$,  
*Market framework (legislative, project identification, wind data base)  
ESCO and Guaranty and Loan Facilities***
- **UN ECE- Financing in investment in EE project 0,35,**
- **Project for establishing of Wind data base- grant from Italian MTES  
0.75 Mio E,**
- **IPA- Capacity building of Ministry of Economy and Energy Agency, 2.1  
Mio E,**
- **ADA- Energy Efficiency in the building sector 1,7 Mio E.**



## Energy Agency of the Republic of Macedonia

### Current status of investments in energy production and in EE project

- **COGEL- CHPP- 30MW plus 14MW heating , 20 Mio E**
- **TETO- CHPP- 220 MW electricity, 120 MW heating 160 Mio E**
- **SIETO- photovoltaic, 10.2 kW**
- **Project pipeline; identified, prepared bankable project as Hotel Granit,  
Gevgelija M1 photovoltaic 600 kW**
- **Clinic Centre EE Project 4 Mio E**
- **Status of the state tenders for 400 small hpp  
problems are located in legislation, issuing concession on water and land, providing finance**