

Question form regarding the results of your project

Dear Partners,

Thank you for filling in this questionnaire regarding the results of your project you have been able to collect so far.

Part I: Promotional activities

**Promotion of Energy Intelligent Building PLAN - 15 October, 2006 (On behalf of the European Commission
- Alfonso Gonzales Finat, Director)**

1) What is/are the target group(s) of your project (households, consumers, companies, cities,... + figures)?

“Through massive dissemination of knowledge on renewable energy and energy efficiency, the project will be focused for information, conviction and mutual consulting, cooperation between beneficiaries and partners. *The targets of the PLAN are to decrease energy consumption in the sustainable village buildings in general by -34%: residential- 35-50% and tertiary-13-19%*”-my PLAN.



My proposals are in AGREEMENT and TARGET with PROPOSAL of Romanian national policy and strategy in Energy:

- Energetic Policy on Romania 2006-2009;
 - National Plan on Development –Program “The Growth Economic Competition”-June 2006;
 - EU-27;
1. Action Plan for Energy Efficiency:Realising the Potential-COM(2006) 545 final-Priority Action 2;



2. Towards a European Strategic Energy Technology Plan-COM(2006) 847 final and An Energy Policy for Europe - COM(2007) 1 final;
3. European Council Action Plan (2007-2009)-7224/07 -Energy Policy for Europe(EPE)



My PLAN is for Project beneficiaries - and for implementation the Promotion of European Passive Houses:

1. Energy end-users and stakeholders participating in the consultation process
2. Social housing association
3. Central Public Administrations and Public authorities
4. Local Public Administration and Local authorities: Rural communities/ Municipalities and City administrations
5. Companies- Consumers industries/ Service companies/ Transport and energy companies/ Energy companies/ Building and housing companies; Service companies -housing companies/ Building companies/ Renewable energy industry/ Handcrafter/ Enterprises -Individual users ,Corporate users , Manufacturers of IT equipment
6. Consultants- Experts - Architects
7. Knowledge institutes –Universities
8. Local & European green NGOs Technicians and professional associations

2) What type(s) of promotional activities have you launched (+ figures)?

My PLAN :

„The objectives and proposals for a climate protection and motivates private households, public , trade and commerce buildings :
 -The Project -Capacity Building for Greenhouse Gas (GHG) Emissions Reduction through Energy Efficiency in Romania:

Energetic optimization of the municipalities and cities for local project -Reduction of consumption in buildings-apartments and public system of illumination ; Rehabilitation and extension of the heating system ,installation of metering equipment , inclusively promoting decentralized combined heat and power production –the cogeneration plant .

My PLAN applying the Policy and the same target-in improvement 2006-2010 with:

- initiative legislation of citizens;
- proposals for policy;
- public debates.

Implementation and Development of European projects:

Information on the EU Advice on European funding calls, reports and documentation.

Procurement contracts – Search for funding and partners . Promotion, coordination and evaluation of projects.

Service contracts – Involve designing, producing, delivering and assembling goods.

Works contracts – Advice on technical and financial justification .Finance engineering . Advice on technical and financial justification.

Dissemination for public information, conviction and mutual consulting, cooperation between authorities, producers and customers. This communication programme offers the wider public independent, reliable and practical informations.The information by - promotional materials , such as leaflet, brochures, media actions ,European Union materials .It is also planned to disseminate the information to raise awareness and exchange Best Practices among other European countries.

Training. The organisation of training courses for designers and workers, management and evaluation of European projects.

Technical assistance, studies, know-how.

Seminars. Workshop. Communication campaigns to public administration , companies, public agencies and citizens .Congresses and other events relating to European issues.

Translation and interpretation EU languages.



<u>Promotional activity</u>	<u>Figures</u>
• <i>Leaflets and</i>	- The information by documents of a companies in Romania- promotional materials about energy saving and renewable

<p>brochures (how many distributed?)</p>	<p>energy use, such as leaflet, brochures, European Union materials ;</p> <ul style="list-style-type: none"> - It is also planned to disseminate the information to raise awareness and exchange Best Practices among other European countries. - My leaflet - Promotion of Intelligent Energy Building PLAN Sustainable energy in buildings -3500 distributed. 
<ul style="list-style-type: none"> • Website (how many visitors?) 	<p>www.eficientaenerg.ro (12341 visitors)</p> <p>Development of my website; this is continuously expanded with new information modules and materials-347 pages PLANUL Cladire Inteligenta Energetic (Promotion of Intelligent Energy Building PLAN).</p>
<ul style="list-style-type: none"> • Events such as conferences, workshops, seminars,... (how many participants?) 	<p>The programme, dating of 2004, comprises energy efficiency information, education and training targeted for Calarasi Country : thermal rehabilitation and modernization of the houses builded till in 1985, inclusive the penthouse build, and the rehability of central heating systems; the guaranty of finance sources. The project started with less than 10 visits per day.</p>



Events:

1. My Presentation: in city/village/200-300 participants - in 2007 - Fundulea, Belciugatele, Calarasi, Mitreni, Oltenita, Ciocanesti - Budesti, Slobozia, Giurgiu, Bucuresti, Constanta - regions in South-East Romania:

- the solar-assisted space heating and cooling and biogas equipment -Information, education and training in local-schools-
- The Program on the promotion of Cogeneration and Cooling on High Efficiency in Buildings Sector: residential, commercial or industrial;
- The Program on the promotion of Natural Light and Efficient Lighting for health and activity;
- The Program on the promotion Regenerated Energy Sources (RES) in Sustainable Residential and Tertiary Sectors ;
- The Program for to promote the improvement of the energy performance of Certain Buildings.

2. National and International Conferences:

- LTA Success stories - Senter Novem-Bucharest - 26-10-2006;
- The finance of investments in energy- Bucharest - 23-11-2006;
- ICT in the Utilities Energy Sectors Roadshow- Bucharest -7-12-2006;
- Long Term Agreement on energy efficiency -7 February 2007 Bucharest;
- The Promovation for technologies alimentation with thermic energy in city-28 February 2007 Bucharest;
- World Sustainable Energy Days-28.2.2007;

- RENEXPO Central South-East Europe 2007-Budapest;
- BIOEnergy –Energy Efficiency –Renewable Energy Sources-Forum for South-Eastern Europe 2007-Sofia.

First step –the implementation of Policy is: Through massive dissemination of knowledge on renewable energy and energy efficiency , the project will be focused for information, conviction and mutual consulting, cooperation between beneficiaries and partners:

- The Economic and Trading Ministry-The objectives and proposals for The National Program and Policy- Efficient Use of Energy ,for Global Benefit (corresponding to *Law no 199/2000-Petre Naidin*) :Energy Indicator (that is ,the Energetic Consumption for to produce an Unit from Gross National Product) , in the period 2006-2009 , to lower with 2,5-3 % /year , face from the year 2001;to mention- 4 or bigger than average in EU !

The economical assessed potential for energy efficiency improvement for sector ist:industry-13 % ; residential -41,5% ; transport and communications -31,5% ; tertiary -14%. In a classical single family , with a heating demand less than 15 kWh/m2.a, the energy demands for CO2 emissions are actually close :heating (natural gas ,oil ,solid fuel) about 50% to 55% ; electricity about 12% to 17% and transportation by its own vehicle 35% to 42%-gobal annual production around 15-20 tons of CO2.

- The Policy- European Union:

Action Plan for Energy Efficiency: Realising the Potential COM(2006)545 final:”Buildings alone uses 40% of the energy consumed in the European Union. Too much energy continues to be wasted in buildings because of inefficient heating and cooling systems and lighting:

a. Full Energy Saving Potential 2020 (%): Partly because of its large share of total consumption, the largest cost-effective savings potential lies in end-use Sector-

- Households (residential)-27%; retrofitted wall and roof insulation offer the greatest opportunities;
- Commercial buildings (Tertiary)-30%; improved energy management systems are very important.

b. Primary energy consumption EU 25(1750 Mtoe) in 2005

- Households-16%
- Tertiary-9%”!

- GREEN PAPER on energy efficiency or doing more with less- COM(2005) 265 final: „European initiative- Specific energy policy measures. In Europe, a large proportion of this energy continues to be wasted, whether by inefficient equipment or through lack of awareness of energy users. This represents a cost with no benefit, whether the waste occurs

at the point of production or use. This enormous loss of capital could be put to other uses, including developing new energy-efficient practices, technologies and investments.



- *Other activities*

Information, education and training in local - mass-media and publications-to citizens on issues such as how to reduce energy consumption in homes, through efficient lighting, heating/cooling and sensible purchasing decisions; agree guidelines on good regulatory practices - The Order no.157/2007 -MEC- Economic and Trading Ministry -on the energy performance of buildings and Law no.199/2000 regarding the efficient use of energy (Romania- *Law Petre Naidin)- the producers and purveyors of electricity and thermal energy, Public administration authorities, central or local; Institutions or public offices have obligations, in conditions of convention with customers ,to carry on informations, consultation, finances, as well as of to perform the works for the insurance of the energy efficiency.



Source: www.mmart.com



Part II: Technical aspects of the project

- 1) What are the energy related results of your project? (What does the project aim to reduce in terms of energy consumption or what does it aim to increase in terms of renewable energy sources? + figures)**



The Program on the promotion Regenerated Energy Sources (RES) in Sustainable Residential and Tertiary Sectors :

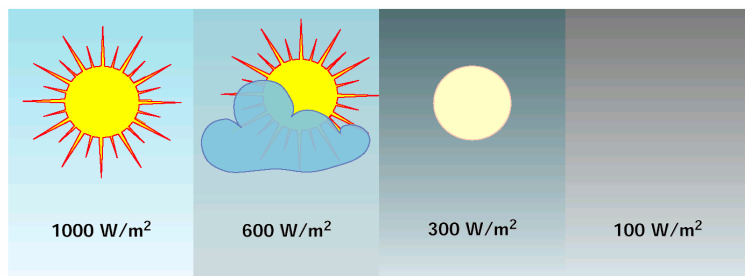


Human activities attributed to the energy sector cause as much as 78 % of the Community greenhouse gas emissions. In the last years ,gas emissions and global heating problems have been very important research topics. Improved energy end-use efficiency and non emissive sources will also contribute to the reduction of primary energy consumption, to the mitigation of CO₂ and other greenhouse gas emissions.

AndrisPiebalgs (meeting Bucharest with manager Naidin) –“If we believe that high energy prices are here to stay, and are possibly set to go higher, large scale offshore wind, biomass, and some types of biofuels begin to look competitive. Without a vigorous development of these energies in the sector of heating and cooling, the overall objective of 12% will not be reached. As I said, several initiatives along these lines will be tabled together with the Strategic Energy Review in January 2007”.

Through the Program for the unroll of the complex projects and/or programs concerning the energetic efficiency-financed by the decrease of power consumption(ESCO). Increasing the use of renewable energy sources- research through domestic generation, whereby the amount of purchased energy is reduced (e.g. solar thermal applications, domestic hot water, solar-assisted space heating and cooling):





- **the demonstration and market replication initiatives** to bring clean and renewable energy sources;
- **the method for easy site potential evaluation** for wind energy-statistical, characteristic construction, economical evaluation;
- **deals with assessing the wind turbine productivity** by comparing different wind turbines in terms of their suitability to energy production at specified sites;
- the information to consumers on the heating(heat pumps) and geothermal energy;

- good practices in generate of biogas (80% methane and 20% CO₂) from animal waste products, as part of the farms, agro-food grounds or ecologic platforms;
- the public consultation for solar energy technologies are based on thermal panels ,exclusively for heating needs and photovoltaic cell modules that produce electricity directly from sunlight;
- encouraging industry for new technologies and equipment in RES that generate cost-effective energy efficiencies and removal of any remaining customs duties on energy efficient technologies.

2) What is/are the quantitative impact(s) of your project on the environment? (+figures)



To promote the use of renewable energies ; Thermal rehabilitation of the houses of the home consumers .Estimated reduction of 1 kg CO₂ /year at the economy from 4 -5 Kwh/year ;

- The Project – Capacity Building for GHG precursors (with acidity effect – NO_x, SO₂, inclusively powders in suspension and sediment) Emissions Reduction through Energy Efficiency in Romania : Energy Efficiency improvement ;Thermic rehabilitation and modernization to cleaner technology , of the company – bigs thermal power plants on hydrocarbons ,hard coal,lignite ,hydrocarbons ,refinery ,petroleum : estimated reduction 10% till in 2010.”.



Source://ec.europa.eu/news

Pollution , congestion and environmetal impact -Through the development of new, innovative energy solutions a substantial contribution can be made to environmental goals -these green electricity produced -e.g. reduction of greenhouse gas of CO₂ emissions. (Romania: corresponding to first period from engagement -2008-2012 under the terms of the Kyoto Protocol ,the impact are measurable and has committed itself to reduce its GHG emissions by 8%, compared to corresponding emissions in the base year 1989.) In 2007 ,first date that is part – surplus from cap and trade 50 million tone of CO₂ equivalent /year and participation “Green Investment Scheme / ETS /Assigned Amount Units “ .

Human activities attributed to The Energy Sector constitute as much as 78% of the European Community greenhouse gas emissions ,estimates project a cost- effective savings potential realisable by 2010 of around 22% within the building sector –if this potential was realized ,around 20% of the EU Kyoto commitment could be met . And the energy sector ist the first source from pollution in Romania :especially ,on the burning of fuels-88% on the total emission of greenhouse carbon dioxide-CO₂ and nitrogen oxides-NO_x ;90% in all sulfur dioxide-SO₂ ;72% from powders in suspension; investments , in the transit period 2006-2009 , for the climate policy – about € 2,8 milliard ,in bigs plants from burning (inclusively ,price in the energy price). Therefore ,to apply :capacity building for Greehouse Gas (GHG) Emission Reduction through energy efficiency improvement ;promotion of cogeneration ,promotion of cleans and renewables technologies , especially wangles of fuel and to use hydrogen ,as energy vector.Estimated reduction of 1 kg CO₂ /year at the economy from 4 -5 Kwh/year).





How is your budget being financed?

500.000 Euro - (possible for cooperation - Your project in Intelligent Energy for Europe - Partnership for The second "IEE-II" - Programme 2007-2013 or FP-7)