

# *Innovative Practices in Renewable Energies to Improve Rural Employability*

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# The importance of renewable energies in rural areas

- ▶ Utilization of renewable energies is important concerning our environment
- ▶ as well as in creation of new workplaces
- ▶ Development of rural areas
- ▶ The goal of the European Union: 20% of energy consumption from renewable energia resources by 2020

- ▶ The **general objective** of IN2RURAL is to promote innovative practices in the renewable energies sector to improve the employability of university students in the rural areas of Bacau (Romania), Castellón (Spain) and Gyöngyös (Hungary).
- ▶ In order to contribute to the sustainability of the territory, the project integrates the three axis of local development: economic, social and environmental.

# *Innovative Practices in Renewable Energies to Improve Rural Employability*

- ▶ Project Title: *Innovative Practices in Renewable Energies to Improve Rural Employability*
- ▶ Project Acronym: IN2RURAL
- ▶ Project Start Date: **01-09-2014**  
Project Total Duration: **36 months**  
Project End Date: **30-08-2017**

# Target groups

The direct beneficiaries of the project are the university students involved in degrees related to renewable energies and rural development.

Efforts will be done to attract students coming from rural areas.

Concerning the staff, three target groups have been identified: professors, technicians and administration personnel in both universities and SMEs.

Furthermore, the project will count with the participation of relevant stakeholders, such as vocational education centres, local governments and social enterprises.

- ▶ IN2RURAL partnership integrates public universities and SMEs:
- ▶ Universitat Jaume I (UJI) and Heliotec (HEL) from Spain,
- ▶ Vasile Alecsandri University of Bacau (UBc) and General Electric (GE) from Romania,
- ▶ Karoly Robert Foiskola (KRF) and Geolin (GEO) from Hungary.

# OBJECTIVES

- ▶ *to increase the applicability of the learning processes by strengthening the relationship between universities and SME;*
- ▶ *to identify and improve the key-competences for the employability in the sector;*
- ▶ *to introduce educational improvements and innovations;*
- ▶ *to strengthen the internationalization, project management procedures and sustainability of the organisations;*
- ▶ *to promote the active participation of youth coming from rural areas;*
- ▶ *to improve the preparation of the students for the professional world.*

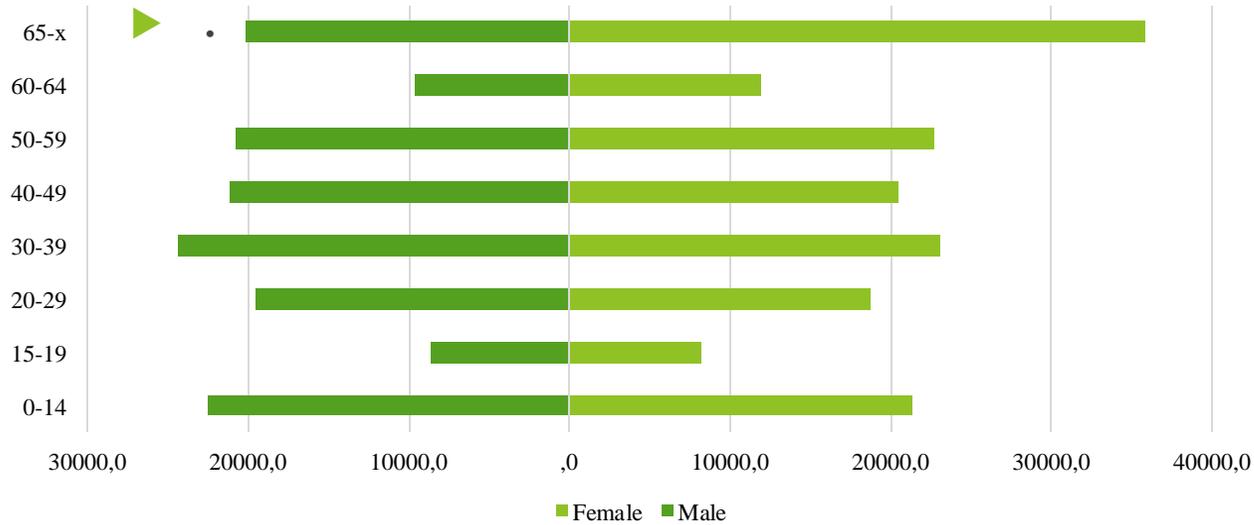
# ACTIVITIES

Based on the needs analysis and the established goals, various activities will be carried out during the three-year duration of the project, including the following:

- ▶ study of prospective and training needs of renewable energies for local development;
- ▶ creation of a collaborative network among SMEs related to renewable energy;
- ▶ course in technical English for renewable energies;
- ▶ course in renewable energy for local development;
- ▶ compilation of case studies applying renewable energies to local development;
- ▶ active job search course for renewable energies in rural areas;
- ▶ public seminars to share the outputs of the project;
- ▶ international mobility of university students.

# Heves megye

Population pyramid of Heves County



	2007 1Q	2009 1Q	2015 1Q	Increasing (2007-2015)
Hungary	7,5%	9,8%	7,8%	0,3%
North Hungary region	11,9%	15,7%	10,8%	-1,1%
Heves County	11,8%	13,2%	9,5%	-2,3%

# Case study - Gyöngyös region/Heves county

ORGANISATION		PERSON	
NAME	TYPE	LOCATION	POSITION
KPMG Counselling Ltd.	SME	Budapest	Trainee
Károly Róbert College	HEI	Gyöngyös	Former student
Assocatio Ugar	Association	Eger	Chairman
Egererdő Plc	Plc	Mátra	Deputy CEO
Sustainable Innovation Centre	Research centre	Gyöngyös	research professor
Municipality of Gyöngyös	Municipality	Gyöngyös	environmental rapporteur-general
GYÖNGY ENERGETIKAI ÜGYNÖKSÉG Kft.	SME	Gyöngyös/Mátra	CEO
Szent István University	HEI	Gödöllő	Ass.prof
Károly Róbert College	HEI	Gyöngyös	Professor
Vidék Profit Ltd.	SME	Gyöngyös microregion	Research assistant
Department of Social Geography and Regional Development University of Debrecen	HEI	Debrecen	Lecturer
MÁTRA Secondary School (Forestry)	Secondary School	Mátrafüred	Lecturer
Hi-Tech Sport base	SME	Mátrafüred	Director

# Case study

- ▶ 1. General situation in the region
- ▶ Traditionally: agriculture, horticulture, wine making
- ▶ The effort towards the quality conscious activities is raising
- ▶ The development of local economy, employment and the rising of the demand for well educated workforce are predicted in medium-term.

# Case study

- ▶ 2. The role of renewable energy in regional development
- ▶ Increasing role in the region
- ▶ The ratio of the renewable energies have to be gone up in the energy consumption
- ▶ New demand for fotovoltaic and biomass energies

# Case study

- ▶ 3. The role of renewable energy in local development
- ▶ Widely spread and increasing utilization of solar energy and biomass
- ▶ Visonta, Mátrai Erőmű Zrt. : the largest solar part in Central-Europe
- ▶ Biomass heating stations
- ▶ KRC: 1MW power station in Tass-pusztta

# Case study

- ▶ 4. Courses related to renewable energies
- ▶ Renewable energy engineering
- ▶ Forest management
- ▶ Engineer in Rural development
- ▶ Missing competences: technical competence, language skills

# Case study

- ▶ 5. The role of renewable energies in Gyöngyös region
- ▶ Energy plant
- ▶ New workplaces, job creation
- ▶ Additional source of income

# Thank you for your attention

Further information: [www.in2rural.ub.ro](http://www.in2rural.ub.ro)