Contacts and overall information about institution					
Name of Organisation:	Ivano-Frankivsk National Technical University of Oil and Gas				
City	Ivano-Frankivsk		Zip Code:	76019	
Street	Karpatska st., 15				
Status of Organisation:	Higher education establishmen (University, etc.)				
Name of Research Unit:	R&D Institute of Oil and Gas Power Engineering and Ecology				
S & T Activity Fields:					
FP7 Priorities	Energy				
Frascati classification	2. Engineering and Technology				
Description of activities	The institute is focused on the problem of the energy determination of natural gas using low cost instruments. The instruments has to be developed in the frame of the project. Research idea of the project: simultaneous measurement of the speed of sound and carbon dioxide concentration in natural gas and calculation of the heating value using specialized software (neural network-based). Instruments for heating value determination are required by ISO 15112 Natural Gas. Energy determination				
Website:	http://science.nung.edu.ua				
Overall Description of Institute (Research Unit)	obtained energy, r value determination measurements. Th suffer from many of during last 5 years	not only on are bases met obstacle focused ms which	the volume. Existing ased either on dire thods and their em s in their industry of their research on the could be easier as	consumed natural gas in relation to the ng industrial systems for natural gas heating act (calorimetric) method or chromatographic abodiments are quite expensive, off-line and application. Main European gas companies the problem of development of the efficient applied and will enable on-line measurements	
Head of Research Unit:	Name:	Maksyn	n Karpash		
Position Title:	Dr.				
Work Phone:	+380342242002		Other Phone:	+380342504708	
Fax:	+380342242002		Email:	mkarpash@nung.edu.ua	
Contact Person of Research Unit :	Name:	Dr. Mak	ksym Karpash		
Work Phone:			Other Phone:		

Fax:		Email:				
Resources and international Activities						
Number of Researchers in Unit:						
Research Facilities:	gas based on actual heatin	g value and volun outputs of the pro	netween consumers and providers of naturals ne of the consumed gas is being implemented oject will be more effectively recognised by ER			
Number of International Projects:	3					
Name and Number of major Publications:			ach to natural gas quality determination // ng, Vol. 71, Issues 3-4, April 2010, pages 133-			
Participation in 7th Framework Programme:						
Food, Agriculture, Fisheries and Biotechnology:						
Energy:						
Environment (Including Climate Change):						
Health:						
Information and Communication Technologies:						
Nano Sciences, Nano Technologies, Materials and New Production Technologies:						
Security						
Socio-economic Sciences and the Humanities						
Space						
Transport (Including Aeronautics)						
Capacities						
Other international project experience:	university network for dev	elopment of parti	1-2009-1-SE-TEMPUS-JPGR "Innovation cross- nership with enterprises" (2010-2013). GR "E- internalistion for collaborative learning			