

**SEE- Award (name "Herman Potočnik – Noordung Award" proposed by MHEST) for
 Research Infrastructure Donations within the Framework of RTDI Collaboration
 with West Balkan Countries**

**Research Infrastructure needs
 - Application form for Scientific & Research Institutions from West Balkan Countries**

Section A – General information
A.1 Contact details
Name of applicant /(institution) Center for Multidisciplinary Studies of University of Belgrade
Legal status / Type of organisation: Public research institution
Address (Street name, ZIP code, town): Kneza Viseslava 1a, 11030, Belgrade
Telephone no.: +381 11 3555-258 Fax no.: +381 11 3055-289 e-mail: cms@cms.bg.ac.yu web address/url: www.cms.bg.ac.yu
represented by (name of person <u>legally responsible</u>) Dr. Zeljko Vucinic
Name of the contact person Dr. Sreten Mastilovic
Address (if different from address stated above)
Telephone no.: +381 11 2085-059 Fax no.: +381 11 3055-289 e-mail: gmvv@eunet.yu web address/url: www.cms.bg.ac.yu/saradnici/SMastilovic/nastavnik.htm
A.2 Applicant (Institution) profile (half page A4)
Center for Multidisciplinary Studies is a research and higher education public establishment founded by the University of Belgrade and the Parliament of Republic of Serbia in 1970, with the aim to promote research and postgraduate education in borderline disciplines and multidisciplinary areas of science and technology.
Scientific staff of the Center is engaged in areas such as environmental protection, material sciences, neurosciences, biomedical engineering, electrochemistry, renewable and advanced energy systems, and information technologies. At the same time, the Center is the institution coordinator in the organization of postgraduate education in interdisciplinary and multidisciplinary areas defined by the University of Belgrade. Its scientists are engaged, amongst others, in this postgraduate teaching, and its laboratories and facilities are used to provide the necessary experimental setting for a part of the postgraduate students enrolled at such studies.
The Center is an active promoter of the sustainable and environmentally friendly energy sources with aim to set the scene for their accelerated use and development in Serbia. In order to achieve this aim we strive to develop a comprehensive institutional and human capacity for wind measurement, wind energy yield analysis, and wind energy project development with an emphasis on high quality and reliability.

<p>Section B – Description of the research infrastructure requirements/needs</p> <p>B.1 Please list your research infrastructure requirements – the most urgent equipment you would need. 50m wind measurement system The system includes among other components: 50m light tower, data logger, solar power system, GSM system, 3 anemometers, 2 wind vanes, air pressure & humidity & temperature sensors.</p>
<p>B.2 Describe the relevance of the requested research infrastructure for the work of your institution and the potential impact of receiving the items listed above (B.1). The 50m wind measurement system is standard equipment for remote monitoring of the wind parameters and meteo-data necessary for wind energy yield prognosis. This equipment is unavoidable in every analysis of the local wind systems and potential micro-siting for the wind project development. The tower height of 50 meters is the minimum requirement for modern yield energy prognosis. The cup anemometry is the generally accepted and the most reliable method for wind measurements characterized by high accuracy and mature technology.</p> <p>The wind energy is one of the most utilized and most dynamically developing renewable energy sources in Europe. Unfortunately, this sustainable and environmentally friendly energy source is not utilized at all in Serbia at present, to a large extent due to the lack of high quality wind data, which are the main input for the economically acceptable and commercially sound investments. The Center is at present involved not only in the wind measurements but also the analytical work necessary to create a comprehensive wind atlas of Serbia and provide needed wind data at the most favourable locations. The requested 50m wind measurement system would greatly enhance our ability to perform these tasks and consequently help building institutional and human capacity for technical challenges in the wind energetics.</p>
<p>B.3 Please indicate the potential users of the requested equipment. Energy Efficiency Agency of Republic of Serbia, Faculty of Electrical Engineering, Faculty of Mechanical Engineering, Institute for Nuclear Sciences “Vinca”, Faculty of Agriculture</p>
<p>B.4 Please describe the training needs of your institution related to the requested equipment None</p>
<p>B.5 Please indicate if there is assistance needed with regard to the transportation and maintenance related to the requested equipment No</p>
<p>B.6 Additional Comments The price of the equipment is € 16,700 (VAT and customs not included).</p>

Please fill in and return the form by email to the contact person in your country (Suzana.vojinovic@mnr.sr.gov.yu)

Place, date: 10.10.2007

Signature and Stamp of applicant

_____ Dr. Željko Vučinić _____