

**Search for a Spanish Partner for a
Bilateral R&D Project (this document will be shared with potential Spanish
companies)**

Organization	
Date of Request:	26/2/2018
Company name:	Institute of Environmental Studies and Research, Ain Shams University,
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SECTION 1: Your Company Profile

(Please give brief / to the point explanations. For more explanation on any point below, you may add a short paragraph as an annexure, with this document.)

Business Sector	Environmental Studies and Research
Company mission or core functions	Institute of Environmental Studies and Research, Ain Shams University, Is a research and educational and service institution that adopts innovation and qualifies as a graduate capable of competing in the labor market and community service in accordance with international developments and standards.
Date of establishment	1982
Ownership (if public and traded, add stock exchange and ticker symbol)	Ain shams University (Governmental)
Total number of employees	More than 1000.
Number of employees in R&D	About: 200 The Egyptian team work in this study are: Egyptian team work: 1- Prof. Dr. Mohsen Abdel-hamid Tawfik, Professor of Engineering Systems

	<p>Department of Engineering Science, Institute of Environmental Studies and Research Ain Shams University (main researcher) 2- Prof. Dr. Hamdy Hassan El-Ghetany, Head of Solar Energy Department, National Research Centre. 3- Engineer Abubakr H. Abdel-hamid, Energy consultant.</p>
Key products sold or services provided	Organize work in the scientific tasks of Article 87 of Law 49 for the organization of universities and Resolution No. 9 of 1997.
Company core technical competences	<p>Study the labor market and its relationship to scientific and practical disciplines and required programs. Contribute to the recruitment of new graduates. Provide training courses, service programs and seminars workshops. Follow the development of graduates in terms of efficiency and promoting high standards in performance during employment both inside and abroad.</p>
Key R&D programs and activities	Many studies and reviews of engineering, scientific, economic, social and its environmental impacts, Training
Examples of accomplishments	Many awards for scientific and practical research for industrial projects in different sectors in Egypt
Company strategic orientation	IESR aspires to achieve a global competitive advantage In managing innovation system in education, research, knowledge and community.

SECTION 2: Partner of Interest

(Please provide a brief summary of the prospective partner company or organization. This summary may address some or all of the points below)

Profile of ideal technology partner	<p>A company working in the field of renewable energy. Constructing electricity generating units by using multiple natural sources.</p>
Core technological competencies and expertise	Improving the efficiency of the units through research, studies and <u>practical</u> reviews

<p>Other essential qualifications (e.g.: ownership, track records etc.)</p>	<p>According to "Eligible Spanish Applicants: Applicants from the industry are companies or Economic Interest Groupings (EIG) or consortia made up of at least two independent companies. Eligible companies shall be operating and registered in Spain, and holding a valid Spanish company tax code (CIF). As per CDTI's internal regulations, the Spanish consortia should be led by Spanish Company. Collaboration with other entities such as research centers, technological canterers, universities, and other R&D performing organizations is permitted under CDTI's regulations, as subcontractors of the Spanish companies present in the consortia."</p>
<p>If you have a list of companies with whom you are in contact or interested in contacting, please provide contact details</p>	<p>Not Available.</p>
<p>If you are interested in collaboration: please specify details and other important information you want to share with a potential company</p>	<p>Designing features of an electrical energy generation system from natural resources (Solar energy, Biogas energy, and Wind Energy). By using: International software and mathematical models for achieving the maximum Efficiency. Energy measurement instrumentation. Working will be in the area of Renewable Energy (thematic area 4) titled with "Design of Efficient Hybrid Renewable Energy System for Rural Areas" that it will depends mainly on using Solar Energy, Biogas and wind Energy.</p> <p>The objective of this research (Project) is improving hybrid Renewable Energy system (HRES) utilization Efficiency to be economically for supplying electricity and thermal energy to rural and remote Areas in Egypt. This will done by identifying the optimal design of HRES "sizes of each component" And Establishing a prototype works to feed loads of a small farm using the available natural resources for achieving the following General Objectives:</p> <ul style="list-style-type: none"> • Insure sustainable development related

	<p>to our natural resources.</p> <ul style="list-style-type: none"> • Reducing the relying on fuel oil and natural gas, and conserve these resources for future. • Reducing the quantities of harmful emissions (Area 5) due to tradition fuel utilization. <p>However it will contribute in Agriculture and Sustainable Food Production (Area 1) for sustainable crop production, livestock, biogas production, and improve livestock productivity. The small farm maximum electrical load will be about 6KW, consumes about 24KWh/day.</p>
Interested areas of collaboration	Technical, constructing, and energy measurements field
Specific R&D contribution you are seeking/offering	<u>Efficient</u> design of Hybrid renewable energy system for natural resources

Abubakr

Signature

Name: Abubakr H. Abdel-hamid

Date: 26/2/2018