

**Search for a Spanish Partner for a
Bilateral R&D Project**

Organization	
Date of Request:	19/3/2024
Company name:	National Water Research Center (NWRC), Egypt
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SECTION 1: Entity launching the partner search

(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.)

Sector	Strategic Research Unit of the National Water Research Center
Entity mission or core functions	<p>SRU Mission</p> <ul style="list-style-type: none"> ▶ Share in the planning and management of the water resources in an integrated and comprehensive approach taking into account the environmental, social, and economic aspects. ▶ Assist in developing the national water policies and strategies guided by the NWRC-Research Plan
Date of establishment	1998
Ownership (if public and traded, add stock exchange and ticker symbol)	Government
Total number of employees	25-50
Number of employees in R&D	5-10
Key products sold or services provided	Research studies
Entity core technical competences	<p>The National Water Research Center (NWRC) is a pioneer institution for various water research activities in Egypt. It was established in 1975 as a research entity within the Ministry of Water Resources and Irrigation (MWRI) in Egypt.</p> <p>SRU supports decision makers in their task of drawing sustainable water resources strategies, by enlightening the environmental, socio-economic, socio-cultural (including gender and conflict issues) and economic relationships involved in the efficient management of water resources. SRU has been able to achieve full capabilities in developing databases and GIS systems regarding the various water related issues and establishment of national web sites for coordinating actions and information. SRU has an experience in collecting, processing and dissemination of gender-water related information, and monitoring gender mainstreaming into water resources management.</p>

Key R&D programs and activities	<p>Research Fields include:</p> <ul style="list-style-type: none"> ▶ Water -Energy –Food- Ecosystem nexus ▶ DSS-Integrated Water Resources and environmental planning and management ▶ Non-conventional Water Resources Including Desalination. ▶ Water and Food Security
Examples of accomplishments	<p>SRU has been involved in many projects in the area of decision support systems for water resources and environment management, strategic plans for food security, the evaluation and assessment of the water users associations in Egypt through different perspectives and various scientific approaches, the evaluation and assessment of the water quality of surface and ground water, optimize the use of water resources in agriculture towards an increase in land and water productivity, climatic change and its effect in water resources, and mainstreaming gender dissemination into integrated water resources management.</p>
Company strategic orientation	<ul style="list-style-type: none"> • looking forward to the future with a promising and comprehensive vision to keep up with the up-to-date strategies supported by the latest international technologies • Analyzing water resources issues from broader and more holistic perspective for the benefit of the nation as a whole, • Initiating new-multi-institutional and multi-disciplinary research that supports water resources planning issues, • Identifying both priority areas where urgent research is necessary and potential problems before they arise, and

SECTION 2: Spanish Company Profile

(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	having experience related to solar powered desalination plants with low-cost desalination for intensive agriculture.
Core technological competencies and expertise	Desalination – hydroponic- smart agricultural -
Other essential qualifications (e.g.: ownership, track records etc.)	
If you have a list of companies with whom you are in contact or interested in contacting, please provide contact details	
If you are interested in collaboration: please specify details and other important information you want to share with a potential company	
Interested areas of collaboration	water-food-energy-environment nexus
Specific R&D contribution you are seeking/offering	Developing an integrated Water-Food-Energy-Nexus model: Assessing the water-energy-food nexus of integrated applying various low-cost desalination technologies with hydroponic greenhouse